## INDIAN LOGIC IN THE EARLY SCHOOLS.

# INDIAN LOGIC IN THE EARLY SCHOOLS 

A STUDY OF THE NYĀYADARŚANA IN ITS RELATION TO THE EARLY LOGIC OF OTHER SCHOOLS

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 кàı $\delta ı a \lambda \epsilon \xi$ ó $\mu \varepsilon \theta a$. à $\lambda \lambda \grave{a}$ यéveтe.
-Plato, Resp., 328A.

## PREFACE

THE present work is a dissertation approved by the University of Oxford for the degree of Doctor of Philosophy. It is narrower in its scope than Keith's Indian Logic and' Atomism, in that it is specifically a study of Indian Logic (including epistemo$\log y$ ), and does not, unless incidentally, deal with the physics and metaphysics of the Nyäya and Vaisesika schools. It is narrower also in that it does not include an account of the later, or so-called 'modern' logic, but confines its survey to the period ending with Vacaspati Miśra's commentary in the middle of the ninth century A.D.

My intention was not to give a history of Indian Logic within this period, but to interpret Indian logical doctrine in its historical development. In view of the difficulty of interpreting the basic texts it seemed necessary to keep closely to the actual words of the writers; with the result that the exposition became very largely a string of translations of loci classici on logical topics.

References are made by page and line to the Vizianagram Sanskrit Series edition of the Nyāyabhäsya (Benares 1896) : the Bibliotheca Indica edition of the Nyäyavärtika (Calcutta 1907) : the Vizianagram Sanskrit Series edition of the Nyāyavärtikatätparyatīk $\bar{a}$ (Benares 1898) : the Bibliotheca Indica edition of Sabara's Bhäsya on the Mimämisā (Calcutta 1889) : and the Vizianagram Sanskrit Series edition of Prasastapada's Bhaşa on the Vaiseşika, and Sridhara's Nyăyakandali (Benares 1895). References to Kumärila's slokavärtike and Pärthasãrathi Miśra's Nyäyaratnäkara are to the section and verse, the edition used being the Chowkhamba Sanskrit Series edition (Benares, 1898-1899).

Some of these are pionser editions, landmarks in bibliography. Within the space of ten years India rediscovered the logical classics of the ancient school, which before that were practically unknown, even in India itself, and among pandits. All students of the Nyãya owe a very great debt to the distinguished Indian editors of these first editions; and to those European Sanskritists who realised the importance of getting the manuscripts edited. To the last of these latter, the late Arthur Venis, I am under a personal debt of discipleship which I cannot now repay. Prīyantä̀̇ guravah.

The conditions of the possibulity of this study have been principally provided by three writers on Nyāya: Dr. Ganganātha Jhā, Professor Keith, and the late Satıs Candra Vıdyābhūṣaṇa. Without Dr. Jhā's translation of the three basic works of the ancient Nyäya, I should probably never have begun to understand them. To Keith's Indian Logic I owe my first connected view of the subject, and the understanding of many things. Vidyăbhūşaṇa provided the indıspensable detaled annals of the school, and an invaluable pioneer account of Bauddha logic.

I regret that I have altogether ignored Jaina logıc. It may be that its earler writings would throw light on the development of doctrine, besides adding much of logical interest. I have not had the time nor the courage to enter upon what would have led me far afield.

My thanks are due to the United Provinces Government for the grant of study leave which enabled me to carry out this work, and for generous assistance in the publication of it; to the United Provinces Government Press for their patience and courtesy in dealing with the difficulties of printing the book; and to my wife for asgistance in compiling the Index.

# ABBREVIATIONS USED IN CITING CERTAIN WORKS 

| $\mathbf{J}$ Bomb $\mathbf{R}$ A S. | . Jonrnal of the Bombsy Branch of the Boysl Asistie Soclety |
| :---: | :---: |
| J. B A S. | Journal of the Roysl Asistic Societr |
| J. B A B B | Journal of the Royal Abistic Society of Bengal. |
| Jhī, PRPM | - The Prábhakara School of Paroa Mimdimsd, by Gangănãtha Jha |
| Shē, transl | - Translation of the Nyäya Sitra, Nyãyabhdsya, and $N y$ äyapartika, by Gangānātha JhĔ |
| Kerth, ILA | Indian Logic and Atomism, by A B Keith |
| M | MImätisa Sutra of Jaiminı |
| NBh | ., Nydyabhafya of Vatsyisyans |
| NK | Nydyakandall of Srîdhars Mıśra |
| NRA | - Nyayaratnakara of Pårthssărathı Mı́ra. |
| NS | . Nvāya Sutra of Gautama |
| NV | Nydyavartika of Uddyotakara |
| NVT | ... Nyāyavartikatatparyatika (briefly the Tãtparya, of Vácaspata Mírs |
| NVTP | - Nybyadätıkatatparyapart'suddhu of Udayane (briefly, the Pariduddhi). |
| PBh | The Bhafya of Pradastapads on the Vaifeşika system. |
| \$1 Vert | . Slokapdrtike of Kumanrila Bhatte on the tarkapada of the Mimbihsd. |
| 8DS | . . Sareadarsanasamgraha of Mādhavs |
| TB | .. Tarkabhäppd of Kedava Misra |
| VE | - Warfę̧ika Sütra of Kanàda. |
|  | . History of Indian Logrc, by S. C Vidyïbhagapa |
| Do. MSIL | Indsan Logic Medsaeval School, by S. C. VidyLbhůapa. |

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## indian logic in the early SCHOOLS

## HISTORICAL INTRODUCTION

> Systemstisation snd redaction into altras-The Nydya-bhdegya of Vatasysyana -Prasastapsds Bhafya and the Pramana-samuccaya of DínnägaUddyotakara and Dharmakitti-Kumarila and Văcaspati Mífra

IT is no longer true that a history, in the sense of dated annals, is impossible for Indian Philosophy. Great progress has been made in the laat thirtv or forty vears in the direction of evolving a chronological order out of a chaotic tradition. The origins remain misty: but the relative chronology of the earlier writers is now becoming apparent. and from 600 A.D an absolute chronology may be said to have been attained. The progress in the last respect may be illustrated by reminding sceptics that Fitzedward Hall's still valuable Index to the Bibliography of the Hindur Philosophical Systems (Calcutta, 1859) identifies Uddyotakara, whose date is now fixed about 600650 a.d., with Udayana, who gives his own date as 984 A.D. Cowell cleared up this particular confusion in 1864, in his edition of Udayana's Kusumañjali. Peterson in 1889 was still able to suggest that the Buddha himself was the author of the Nyäyabindu, which is in fact the work of Dharmakirti, a near contemporary of Uddyotakara, as was shown by Pāthak in valuable papers contributed to the Bombay Branch of the Royal Asiatic Society from 1892,-papers which made a great advance in the determination of
the relative chronology of philosophical works. But to fix even a single date may be the work of a syndicate of scholars working in different continents and in languages as diverse as Chinese, Tibetan, and Sanskrit : and it is necessary therefore to hasten slowly.
section 1. systematisation and redaction into sutras

## The systems and the suttras

Of the six Brahmanical systems of philosophy five make their first appearance in literature in the form of sütras, that is, collections of brief texts or aphorisms each one of which stands for more than it says, but which are threads in a coherent whole of doctrine. It is clear that these collections of what may be called chapter-headings cannot be first things in the history of the school to which each belongs; but that each had been the possession of a school, added to and altered from time to time as new opponents and new points of view presented themselves; and that each had a history extending over periods of varying length prior to the final redaction or compilation in which we now have them. Therefore, as has been pointed out ${ }^{2}$, there are two chronological problems, which must be kept distinct, in connection with the sütras. One is as to the date of their redaction into the present form. The other is as to the date when the system finally redacted into these sütras first began to exist in the shape of a body of doctrine which would have been recognisable as continuous with the doctrine taught in the sütras as finally compiled. It is quite possible that a suitra which we conclude to have been redacted at a rela-

[^0]tively late date (for example, the Yogasūtra) may none the less teach a doctrine which had existed in recognisably the same form for centuries before it was redacted. It is on the other hand possible that names which later applied to a specific school were used in an early period in a different or in a much more general sense ${ }^{1}$. This is undoubtedly the case with the terms nyāya and tärkika, which were later applied specifically to the Nyäya school, but in the earlier literature refer either to the Mimäms $\bar{a}$ or else have a general meaning. In the case of the term Särinhya (which had a very long history) it has been suggested ${ }^{2}$ that the name was originally given to anv speculative doctrine which professed to achieve salvation by way of knowledge ( $j \tilde{n} \bar{a} n a-m a \pi r g a$ ), as opposed to the doctrine of salvation by works,-of which yoga may have been a quite general appellation

[^1]If then indications of the late redaction of a sutra are not inconsistent with the early systematisation of the doctrine taught in the sütra, it is also true that early mention of a name which subsequently designated one of the schools is not necessarily evidence that the school existed at the date of the work in which the name is mentioned.

## Relation of sūtras to Buddhist schools

Jacobi in his article on the Dates of the Philosophical Sütras ${ }^{1}$ confines himself to the question of the period at which the sütras were redacted, and relies principally on the passages in certain of the sūtras and earliest commentators which are directed against Buddhist doctrines. Stcherbatsky ${ }^{2}$ had used the same criterion, but (relying on the interpretation given by such later commentators as Vācaspati Miśra, Kumārila, and Samkara) argued that the polemic is directed against the idealist or vijñanavāda school of Buddhist philosophy, and that, as this doctrine was developed by Asanga and Vasubandhu, the sūtras in which this polemic is found could not be earlier than the date of these Buddhist writers. Jacobi showed effectively that the passages in question do not polemise against the idealistic doctrine of these thinkers, but can be interpreted as attacking the earlier nihulistic

[^2]or zünyavada doctrine; and Stcherbatsky has recently ${ }^{1}$ admitted the correctness of Jacobi's conclusions, though still interpreting the Nyayasütra as arguing against idealism of an early type ${ }^{2}$.

The terminus a quo for the redaction of the Nyāyasūtra and, the Vedäntasūtra, and for the early Mïmä̀isaka commentator-the 'vittikära'-whose polemic against the Buddhist doctrine is cited in Sabara's Bhäb̧y on the Mīmämsā Sütra, can therefore be pushed back to the period (sometimes identified with the time of Nāgārjuna) when the sūnyavada philosophy developed. Two of the suitras,--the Mímä̀msa and the Vaiseşika-, do not polemise against Buddhism, so that their date cannot be determined by this criterion. The Sämkhyasūtra is admittedly a modern compilation, and plainly polemises against the developed vijūānavāda. The Yogasütra (iv 14-21) is said by Haughton Woods ${ }^{3}$ to attack the idealism of the vijñannavāda: and it is plain that the Bhąsya has the vijñānavāda in view. Woods relies on this, and on Vācaspati's explicit reference to a zijñānavädin vaināsika. But he admits that the suitra itself does not make reference to this or any other school. But if we are to rely on commentators' interpretations we should have to admit that the Nyäyasūtra and the Vedāntasütra are polemising against the vijünānavada: and Jacobi's arguments against this view are cogent ${ }^{4}$.

[^3]${ }^{2}$ For his present views soe below, pp. 99- 81 .
${ }^{\text {'James Hanghton Woods Yoga Systom of Patanfali, pp. xvii-xvh. }}$ He mys: "the fact remsing that the Sutra is sttecking some idealist". The fact, I think, is that the Yogaritira is here attacking the idealistic moment whoh, as $I$ have argued below, was an element in the dinyavada, from the first.
${ }^{4}$ Jmoobi hmacelf however holds that the Yogaentra pasasge is mere
saily interpreted if a reference to osjndnaodde in supposed. Dut the

Vidyabbhūsaṇa ${ }^{1}$ has pointed out striking parallels in phraseology between Nāgārjuna's Madhyamikasütra and the Nyãya-sütra, which (as he supposes) show that the Nyãa-sūtra was redacted after the time of that writer. If this is so, the Nyäyasütra in its present form falls in the period between Nāgārjuns and Vasubandhu ${ }^{2}$.

## Relations between the different sūtras.

It is sometimes held that the sütras (other than the Yoga and Sämkhya) must have been redacted at the same period, as they show traces of mutual influence. But intercourse between the schools in the long period preceding the redactions is perhaps sufficient to explain this : and there are indications that the Vaisesika, at any rate, was redacted at a comparatively early period.

## Nyāya and Vaiseṣika

It contains no polemic against Buddhism, which it could hardly have ignored if it had been reduced to its present form after the rise of the Buddhist philo sophical schools ${ }^{3}$. Again the doctrine which it teaches owes nothing to the Nyäya, whereas the Nyāya sūtra reproduces the physiology and physics of the Vaiseşika-sūtra, in some cases repeating actual phrases from the latter in a way which proves indebted-

[^4]ness ${ }^{1}$. Had the Vaiseṣika-sütra been redacted later than the period of the systematisation of the Nyāya, it might have been expected to show some trace of Nyäya influence in its logic. But-though Vaiseşika logic is a more developed doctrine in the sutra than is sometimes supposed-it shows no trace of Nyāya

- ...... which be urd adhyaya of NS, which summarises Vasestika physics and phyniology in the course of an argument to prove that the sonl is other then the body, the senses, and the 'mind ' VS IV 18 is identical with NS III 139 (anckadravyasamavdydd ripaviestic ca rapopalabdhith-s doctnne typically Vaweqika).-Ui's other parallels are :-

|  | $54=V S$ | VII. 11 | 20 |
| :---: | :---: | :---: | :---: |
| $N 8$ II. |  | IV | 8 |
|  | $35=V S$ |  |  |
| NS III. | $68=V S$ | II | 4-5. |
| NS III. | $71=V 8$ | VIII. |  |
| $N 8$ III. n . | . $68=V \boldsymbol{S}$ | VII | 28 |
|  | $10=$ | III |  |

In view of such parallelisms it 18 fair to say that the ' syncretism ' cf the $N_{y}$ aya-Vaiseaska begme with the Nyäya sitra itself Vatsyayana regarded the two sitras as complementary

VS VII $n 20$ says sammaykah sabdàd arthapratyayah NS II, 154 вsys na, sümayskatväc chabdartha-sampratyayasya The parallelism here 18 , as Ui rightly claims, " not doubtful ".

The rather curious phrase bhayastodd in NS III. 171 must be repeated from VS VIII 115 (The sütra in the Vizianagram edn 15 III. ${ }^{1}$ 69) NS III 163 (1e 61-62 un the Vuz edn) very neatly sums up the Vaisegka doctrine of the special objects of the senses NS I $1,1018 \approx$ simplified version of the doctrine that the soul 18 unferrible from peychical qualities, omitting the philosophically dubious first part of VS III. n 4 with this omission the two sitras become identical. NS III. 128 repeats the teaching of VS IV u. 2-8 that the body is composed, not of many elements. but of one, Viz earth. NS III 185 is obscure but is intarpreted by Vatay $\mathbb{I}^{\circ}$ yana as stating the doctrine that perception is lumited to things which have magnitude and ' manifeat form ',-the doctrine taught by VS IV. 1. 6-18. NS III. a 63 ( $=62$ in Viz edn) teaches that 'mind ' 18 atomic for the reason given in III in $B 0(=59)$ i.e. that we cannot have more than onf apprehension at a time while VS VII. i. 23 says that 'mind 'is atomie because it is not sil-pervading (vibhu) like ether and the soul

A strikng likeness to the Vaiseqika which $U_{1}$ does not note is in NS V 1 14, which teaches the characteristic Vaifegika dectrine that the universal (sdmudnya) is eternal and perceptible by sense (aindriyahatod) - On the other hand NS II 1165.66 shows no trace of the Vaisequike doctrine of the universsl and of Vaifeqika termunology, though Vataydyane in his comment ad loc plamly echoes the terminology of the Vaifenka Satra (e.g., anekatra pratyayānuvrttsnumittam).

The indication here 18 that NS M..1.65-66 is teaching a pre-Vasfapike doctrine of the universal, whie NS V i 14 is tesching a past-Vataitikn doctrine
influence. It seems certain that the Vaisesika, both. as; a system and as a suitra, is earlier than the Nyäya,

## Nyäya and Mimàmsā

Keith points out that the Nyäyasutra shows acquaintance with Mimämsaka terminology in the passage of the second book which deals with knowledge derived from words and the authority of the Veda (NS II. i. 49-69), and which asserts against the Mimamsaka the doctrines that words have meaning by convention and that the Veda had an author. There is no question that the two doctrines here controverted, and the doctrine of the eternity of 'word ', existed prior to the redaction of the Nyäya and Vaisesicika sūtra; and it seems probable that the termınology of exegesis which we find in the Mïmämsa sütra-together with these doctrines-are older than any of the philosophical schools. But no indication as to the date of redaction of the Mīmämsā sütra can be drawn from the Nyäya and Vaisessika polemic. There is nothing however to prevent us from assigning an early date to the Mīmämsā sūtras, even in the form in which we now have them, so far as I know. The only consideration to the contrary is the absence of reference to the system and its author in the Mahabharata : and not much weight can be attached to the srgument from silence here ${ }^{1}$.

## Nyäya and Vedänta

The relation between the Nyaya-sūtra and the Vedänta-sütra may become clearer when a careful comparison shall have been made between the polemical passages in the two sütras ${ }^{2}$. Keith states

[^5]that Gautame is familiar with the terminology of the Vedänta-sütra ${ }^{1}$, and he finds in the Vai-sesika-sütra references to the teachings, and reminiscences of the phraseology, of the Vedanta-sūtra ${ }^{2}$. On the other hand the Vedānta-sūtra has a definite polemic against views found in the Vaisesikasütras : and Jacobi has shown that its polemic against the Bauddha corresponds to the polemic in the Nyäya-sütra4, neither being directed against the later vijñānavāda doctrine; while the Vaisesesika-sūtra contains no such polemic. The indications seem to be that the Vaisesika-sūtra is earlier than the Ve-dänta-sūtra, as it is earlier than the Nyāya-sütra: while the two latter sutras may have assumed their present form at about the same period.

## Origins of the Nyāya

When did the Nyāya doctrıne begin to exist in a form recognisably continuous with the doctrine as we have it in the Nyäya-sūtra? In other words, what is its systematisation-period, as distinguished from its redaction-date? In order to clear the ground for this enquiry it 18 first necessary to ask what is specially Naiyāyika in the Nyäya doctrine. For its physics and physiology and psychology are not specifically its own, being from the first indistinguishable from those of its sister-sästra, the Vaiseşika. What

[^6]${ }^{2}$ Ved. 8 9. 17 is a aneer at the Vaifefike, not st the Nyilya.
${ }^{*}$ See footnote 1 p. 88 unfra.
characterises it specifically appears to be primarily its development of the 'nyaya' or five-membered method of demonstration: and, in connection with this, its insistence on four sources of knowledge. corresponding to the first four members of its demonstrative formula, or 'syllogism'. The emphasis which it laid on the independent status of testimony, as a means of proof made it in theory more ' orthodox' than the Vaisesesika, which nominally recognised only perception and inference as sources of knowledge. and, though in practice the difference was small, this may have been the decisive advantage which enabled the younger sāstra to supplant, as it did, the elder : of which it may perhaps fairly be called a revised version. The importance of the Nyäya therefore is in its doctrine of the pramānas, or sources of proof, and in its formulation of the nyāya. or method of demonstration, from which it took its name. It is therefore correct to regard the $N y a \overline{y a}$ as, above all else, a school of logic.

The question then amounts to this. When does logic, as taught in the Nyāya-sūtra, first make its appearance? There is a reference in the Mahābhārata which is quite definite :-
pañcāvayavayuktasya vākyasya gunadoṣavit ${ }^{1}$.
"Knowing the virtues and defects of the five-membered syllogism." It is not possible to doubt ${ }^{2}$ that we have here a reference to the specific Nyäya doctrine

[^7]of demonstration. But it does not help us to carry the date of the system any further back, seeing that the present redaction of the Mahäbhārata may be as late as 200 A.d.

In the medical works of Suśruta and Caraka, and in the Arthasāstra attributed to Kauțilya, there are lists of tantrayukti, that is to say methodological technical terms used in the particular tantra or sästra : and one of these,-the tantrayukti of anumata, i.e., the principle of tacit acceptance, 'what 19 not denied is admitted'- is quoted and used by Vātsyāyana ${ }^{1}$. The names of some of the tantrayukti figure in the terminology of the $N y \bar{a} y a^{2}$ : but the accounts given in the lists themselves do not tally with the meanings which the Nyāya assigns to the terms, and the lists are clearly independent of the Nuāya. There is no trace of system underlying these collections of more or less technical terms, and nothing of logic in them. -Thete is however a section in Caraka's work devoted

[^8]to strictly logical conceptions, the teaching of which perhaps represents a popular version of the Nydya, divested of all subtleties and adapted to the understanding of the layman ${ }^{1}$. Buthere again the date of Caraka's work in its present form is so uncertain that the passage does not help towards fixing the sys-tematisation-period of the Nyaya. The rame may be said of a supposed reference to the Nyäya in the Milindapanha, where King Milinda (Menander of Bactria, c. 150 b.c.) is said to have been versed in Sämkhya, Yoga², Nīti, and Vaisesika. Nīti, in the context, may mean Nyäya; though the use of the word in this sense is perhaps without a parallel.

In the older literature, that is, in works to which a date definitely prior to the Christian era can be assigned, there is complete absence of reference to the Nyäya as a system, though the word nyaya occurs either in the general sense of a decision

[^9]or conclusion, or in the special sense of Mimamisa principles ${ }^{1}$. The Buddhist Pali Canon gives the impression of belonging to a pre-logical phase of thought: and this is true even of the Kathävatthu, in which we find some terms which are familiar as technicalities of the $N y a \bar{y} y a$ system, e.g. pratijñã, upanaya, nigraha, nigamana, upamā. It cannot be said that these are not used as technical terms, for their application is systematic ${ }^{2}$ : but they are not technical terms of syllogistic analysis. They are used in connection with a stereotyped scheme of discussion which is applied with wearisome iteration to a variety of topics. The debate has in the first instance five phases : each phase is an argument in itself : and the fourth and fifth phases are called respectively the upanaya and the nigamana. The first phase is called anuloma, the second pratikarma (patikamma), and the third nigraha. The five phases together constitute the first nigraha. Then follows a second nigraha; with five similar phases except that the first phase is now pratyanika (paccanika) instead of anuloma. Six other ' nigrahas ' follow, in two sets of three: the first set of three beng modifications of the first nigraha by insertion of the words 'everywhere,' ' always', 'in all cases ': the second set of three being corresponding modifications of the second nigraha. These eight nigrahas appear to constitute a dialectical whole (KV I i. 1-16) : a five-phased argument pro,

[^10]a five-phased argument contra, three modes of the pro argument, and three modes of the contra argument ${ }^{1}$.

There is method here-too much of $\mathrm{it}^{2}$-but it is in no way comparable to the method of the Nyāya. A truer parallel is to be found in the ten-membered debate (miscalled 'syllogism') as stereotyped by the Jaina logician Bhadrababhu, ${ }^{3}$ and probably in the tenmembered method which Vatsyagyana attributes to certain methodologists (naiyäyika). The Kathävatthu, in fact, so far from proving that logic existed in the third century b.c., ${ }^{*}$ is an indication that it did not exist : for, if it had existed, this cumbrous methodology could hardly have remained in use. It further indicates that $\log _{10}$ was preceded by attempts to schematise discussion, attempts which were inevitable in view of the habit of organised public discussion which prevailed in early Inda, but which could not succeed until the nerve of argument had been eeparated from the irrelevances in which the early methodology obscured it, and plainly exposed in a formulation of the syllogism ${ }^{5}$. When that was first done a genuine logical analysis began to exist. But there must have been a period of tentative groping after logical

[^11]method before it was achieved. This period is marked by a work like the Kathavatthu, which is claimed by later tradition to belong to the age of Asoka, c. 250 b.c., and may be much later. Assuming that the Buddhist culture of the period was not inferior to contemporary Brahmanical culture, ${ }^{1}$ we can assert that logic did not yet exist in India at the period of which the Kathävatthu is representative : though some of the terms which afterwards became vehicles of genuinely logical conceptions were already being used systematically ${ }^{2}$ in connection with a methodology which was not yet logical, and which may not unreasonably be thought to have been separated by several generations from the beginnings of logic proper. But by the time of Nagărjuna (whose Mädhuamika $K \bar{a} r i k \bar{a}$ is a really powerful prece of dialectic) thought and discussion had been completely loqicised : and he uses terms ${ }^{3}$ which are definitely technical terms of logic proper. His date is still somewhat indefinite. Ui nlaces him about 113-213 a.d., on a compritation of dates given by Kumäraiiva and his Chinese disciples ${ }^{4}$. Keith however, with Jacobi, assigns him to a date about 200 A.D., on the ground that

[^12]" Āryadeva, who was apparently a younger contemporary, uses . . . the words rādi and väraka, showing therefore a knowledge of Greek astrology which can hardly be supposed to have reached India in this form before 200 A.D." ${ }^{1}$

This much may perhaps be taken as proved, that logic proper did not exist in India before 200 b.c. ${ }^{2}$ and that it had come into existence by 200 A.D. somewhere between these dates the Vaisesika and the Nyäya were systematised; the Vaiseṣika being the earlier of the two. $\mathrm{Ui}^{3}$ argues that the Vaisesika cannot have been systematised before 300 b.c. or after 18 A.D. :-not before 300 b.c., because the Kauṭilìya Arthas̃āstra includes only the Sā̀̇mhhya, Yoga, and Lokāyata under philosophy' (ànvīkşikī)*: and not after 18 a.d., becauss Vaisesika doctrines were imported into Jainism in the sixth schism, of which the date is said to be 18 A.D. ${ }^{3}$ The reasons given have been criticised on the ground that the Kauttiliya is no authority for so early a period, and that the Jaina chronology and tradition is uncertain. And the mention of the Vaisesika svstem in the Mahavibhăsasáastra which is traditionally connected

[^13]with Kaniska's. Council in the first century A.D., and in Asvaghoss's Süträlamkatra, would be more helpful if the dates of these works were more definite. The same may be said of the mention of the Vaiseg̨ika in the Milindapanha ${ }^{2}$. Nevertheless the indications, such as they are, point to the beginning of the first century A.D. as the latest date for the systematisation of the Vaisesika. It does not seem possible to arrive at any more definite conclusion than this. It seems likely that the Vaisesika system had been systematised into a form very like that of the existing sūtras by about the beginning of the Christian era, and that its by no means undeveloped doctrine of inference and fallacy became the basis of the formulation of demonstration which is the specific achievement of the Nyäya school, somewhere between the beginning of the Christian era and the end of the second century after Christ.

But there is another strain in the Nyäya besides the Vaisesika. The elaborate organon of logic and dialectic which it contains ends, as Aristotle's organon ends, with a book on sophistici elenchi ( $j a \bar{a} t i$, and nigrahasthāna). The school had to deal with an ingenious dialectic of sceptism which had its origin in early speculations ${ }^{2}$, but achieved its most conspicuous form in the sunyavāda or nihilist doctrine of Buddhism : a doctrine which found its most perfect expression in the Mädhyamika Sútra of Nāgärjuna, although he need not be thought to have been its first

[^14]systematiser ${ }^{1}$. And, besides this, there was the early methodology of debate of the pre-logical period, whth its stereotyped formulae of discussion-tenmembered 'nyäyas' and the like-which preceded the pañcävayavaväkya, the five-membered syllogism of the Nyäya. The genuinely logical formulation of demonstration given in the Nyäya supplanted these cumbrous forms; but not without being influenced by them. There were historical, rather than logical, reasons for the fact that the Naiyäyika syllogism had five members : and the Nyäya certainly owes many of its technical terms to the early methodologists. But none the less the logic of the Nyāya is a new creation. With the pañcāvayavavākya India began to argue logically for the first time. The Nyäya can therefore justly claim to be an epoch-making work : or at least an epoch-marking work.

GECTION 2. THE NYAYABHASYA OF VATBYAYANA
The earliest extant commentary on the Nyāya-sītra is the Bhäsya of Vātsyāyana, who is sometimes called Paksilasvāmin. As it does not reply to criticisms which we know that Vasubandhu brought against the $N y a ̈ y a-s \bar{u} t r a$, and as it is itself cited and criticised

[^15]by Vasubandhu's disciple Dinnāga, it must be prior to both these Buddhist writers. It has been argued that it must be separated by a considerable period from the systematisation of the Nyäya because it gives alternative explanations which prove that the sense of the sütras had already in some cases become obscure. And it speaks of the sütrakära as a rṣi ( $N B h$ p. 68 1. 7), which implies that the system had already succeeded in surrounding itself with the halo of a legendary antiquity: but this perhaps proves little, for no system could hope for a hearing without the fiction of antiquity: and therefore any system would be born old, so to speak. Another very interesting line of argument, first put forward by Windisch ${ }^{\text { }}$, has found general acceptance. It is based on the fact that there are embodied in the Bhäsya certain sūtralike 'sentences ', on which the Bhäsya comments, but yet which do not appear to have for the author of the Bhäsya the status of sütras, and are in general not classed as sutras by the later commentators (though in particular cases there is difference of opinion). The view put forward by Wndisch is that these 'sentences' are citations made by the Bhäsya from an earlier commentary on the sütras. which would imply a considerable interval of time between the sütras and the Bhäsya. But three considerations may be urged in this connection:
(1) There are in Uddyotakara's Vartika and Praśastapāda's Bhäsya a large number of passages which convey precisely the same impression as these 'sentences' in the Nyäya-bhäsya: that is to say, these works also contain statements of sütra-like brevity which are then commented on or amplified by the text. It has not been suggested in the case of these two works that the preliminary brief statements are citations

[^16]from earlier commentaries.. Of course they may be. But does it not seem more likely that we are here confronted with a trick of style, common to the older schools,-the trick or mannerism of first condensing a meaning into an aphorism, and then explaining it? The habit of commenting may be supposed to have become so engrained that a writer felt the need of a text to everything he wrote. This characteristic of 'Bhäsyas' is recognised by Indian tradition-"Sūträrtho varṇyate yatra padạih sūtrānusäribhih̆, svapadäni ca varnyante, bhäşam bhäşyavido viduh."
(2) The Bhäsya never refers to an older commenrator, and does not mark these 'sentences' as quotations with an iti. The $i t i$,-where ' $i t i$ ' is usedfollows the explanation, and not the 'sentence' explained. It is the iti which means ' that is to say ': and which would be used by a writer amplifying even his own epigrams or apophthegms.-Of course it may be used to mark an explanation of some one else's apophthegms. But there is no need to suppose that this is so.
(3) On the other hand there is an obscure passage in which the author of the Bhäsya himself draws attention to the relation between one of these 'sentences' and a suttra which follows in the immediate context. The 'sentence' is the first of three embodied in the Bhasgya on NS. II. i. 11, and runs:upalabdhihetor upalabdeivigayasya cãrthasya pūrväparasababeñ̄āniyamād yathārthadarsanam vibhágavacanam. This means that 'as there is no fixed rule that processes of apprehension should in all cases precede, or in all cases follow, or in all cases be simultaneous with, the objects apprehended,
we assert precedence or sequence or simultaneity in any particular case according as experience shows this that or the other alternative to be true '". This is, as Vātsyāyana says, the solution (samädhi) of the difficulty put by the objector ${ }^{1}$ (NS. II. i. 8-11). But it is not given at once by the sütrakāra, who retorts, in suttra 12, that the Bauddha's own proof will be exposed to just this dilemma; in suitra 13, that if all proofs are invalid, the Bauddha's proof is invalid; and in sütra 14, that if on the other hand the Bauddha's proof that all proofs are invalid is itself valid then it is not true that all proofs are invalid 1Then comes sütra 15: traikālyāpratiskdhas CA SABDAD ATODYASIDDHIVAT TATSIDDHEH-' 'and there is no denying the three time-relations, since this is established; as the musical instrument is established from its sound'". Vātsyāyana explains this rather ambiguous sütra as giving precisely the same solution of the difficulty as that given in the 'sentence' cited above and embodied in his comment on sütra 11.-Why then are the 'sentence' and the sūtra given in different places? Vātsyāyana himself raises the difficulty : and the mere fact of his

[^17]doing so has been taken to indicate that in his view the two statements stand on the same level ${ }^{1}$. He does not however seem to have treated the 'sentence' as a sütra3. On the other hand it seems that he does not offer it merely as a part of the Bhasya, that is, es part of his own comment. Nor does


#### Abstract

 Votuyayana seems to mply that the 'sentence 'snd the satra "stand on the same level, being the woork of the same writer ". But had Vistsyajsins definitely thought of the 'sentence' as being the words of Gautama he would have unchuded 1 t in his siltrapathe, which be does not seem to do -Dr. Thä raues the general question of these 'sentemcos' m this note He postponee consinderation of it to the Introduction. In the Introduction (eontributed by Papdit Gopinstha Kavirija) Windrech's view 18 sccepted (p 18).

What Vatayayana asya 18. "Why is this sald agein? For the purpose of connection with what has been ssid before that 18, in order that the staternent made before to the effect that there is no fixed rule that processes of apprebension must precede, follow, or be simultaneous with, the apprehended object', maght be underatood to arise from the preeent statement". (The first clause may mesu "Why sgain 28 this said?" And the phrase taditahsamatthanam is ambiguous in reapect of the pronouns. Uddyotakars's paraphrase at NV p 19418 equally dubious) "The fact is that the $\boldsymbol{\sigma e s}^{\text {s }}$ has in view the fact that there 18 no fired rule, and so he here rejects the dennal of the three time-relations-s denial grounded on the supposition that there is a fixed rule (antyamadarfis khalv ayam raur nıyamena pratugedhami pratyä. easte) . He gives an illustration of one mode (of the three posesble time-relations) in the words 'as a masical imstrument from the sound ". Hocaune this is intended as an illustration, the illustrations of the other two modes are to be supplied from what has been said before.-Why was that not stated here?-Becauze what has been said before ns being explanned. The mesnung had to be cleared up some way or other,-whether it be cleared ap here or thers makes no difference ".


It 18 difficult to get at the meaning of this passege Vabcaspati Misra says: " He pute sn objection to the resding of thas (efitra 15), m the words 'why is this said ? '. If he has on his own responsibility already stated the force of this sutra, there 18 an end to as siltrapatha altogether ( 1 e there is no ase in hanng siitraz at all, if we are gomg to anticipate the sitra's meaning before the sfitra is stated) He replies that what was then said was not said by him as something over and above the suitra (utsititram), bat was just the meanung of the alitra itseif snd that his satrapatha 18 mesant to show that this 18 the case.". The Vartika raises the queation-why did he depart from the atatra-orier and give hie comicent in the propiony paseaze. Thst is, why wha not that comment given here, under saltra 159 The Bhipya answers this in the words 'The meaning had to be interproted some Wey or otherwhother here or there ${ }^{28}$ no matter'. Tha comment neems to indicste that m Vicaspata's view the ' anatonce' is yust a part of the Bhifya

Soe aleo p. 49, footnote 1.
'Dr. Tha notee that the ' entence ' sppeara as a saitra in the seltrapothe attechad to one of his M88, and that the commentory Bhdyya-condra appears to regard it as a seltra, But Vicenspati Mifre's Nysyaricinibandhe doea not give it as as sütra, nor does Uddyotakiara treat it as auch.
the suggestion that these sentences are citations from an earlier commentator meet the special problem of this passage. In what sense then was it that the 'sentence' and the sūtra stood on the same level?

It seems to me that what Vātsyāyana says implies some such state of affairs as this.-He had to deal with a mass of material which formed the tradition of the school and which existed largely in sūtra form. There was already a doubt as to how much of this was to be called 'suitra' and treated as the very words of an already legendary founder. There were also differences of opinion as to the interpretation of some of these traditional formulae There is nothing to show that before Vātsyãyana's time there existed any standard sütrapātha and commentary The two things go together • for it would be impossible to construct a sütrapätha without at the same time giving an interpretation Others may have essayed the task of redaction and interpretation of the school tradition : indeed every teacher must have done it in some degree. But Vătsyāvana's work presents itself as the first standard redaction and interpretation : and there is nothing to show that anything except a relatively fluid tradition preceded him. There would be a certain amount of aphoristic tradition in the school which for one reason or another he would feel to be the meaning, though not the ipsissima verba of the $r s ̧ i$. These he would exclude from his sūtrapātha. but include in his Bhäsya: not as citations from any definite author, but as the heritage of the school and as carrying an authority only less than that of the sütras themselves. Such appear to be some of the 'sentences' embodied in the Bhäsya. And it is in this sense that some of the 'sentences' and the satras "stand on the same level ",-not as being the work of the same writer; but as belonging to the same body
of tradition and as being no less representative of the rsi's intention. That Vātsyāyana himself was the author of any of the sūtras seems highly improbable. But as a redactor he would have a certain latitude, and would be dealing with a body of teaching which had grown up over a considerable period of time and which included comparatively recent developments within the school. After one or two generations what was new would begin to be indistinguishable from what was old,-especially as any new argument would always be put forward as part of what the rsi meant even if he did not say it: and the fact that he did not say it would very rapidly be lost sight of in a fluid tradition. There was probably little or no deliberate interpolation : and yet Vātsyāyana's redaction would embody as sutras doctrines which had in fact entered the tradition of the school within only two or three generations of his own date. Some of these sütras stand for teaching which arose in opposition to the Mädhyamika doctrine, and perhaps (though this is far from certain) in opposition to Nāgärjuna himself. If we suppose this teaching to have arisen even as late as 200. A D. there would be nothing to prevent Vātsyāyana from including it in his sütrapätha about a hundred years later. So far then as this argument goes he could have done his work of redaction and comment as early as 300 A.D. And this date will allow for priority to Vasubandhu and Dinnäga, even if we place these teachers in the earliest period which has been assigned to them, namely, c. 350 and 400 A.D., respectively.

## SECTION 8 PRABABTAPADABHXGYA AND THE ERAMENA. SAMUCCAYA OF DINNEGA

There is a period of upwards of three centuries between Vátsyāvana and the next Naiyayika commentator, Uddyotakara. The interval saw a remarkable
development of logical doctrine which appears to have been due in part to the rise of a Buddhist school of logic and in part to the elaboration, by Vaiseṣika commentators, of the comparatively simple logical conseptions embodied in the Vaisesika Sutra. The development was in the direction of a formal logic (as we should call it), and is characterised by the explicit formulation of a Canon of Syllogism, in the form of the Trairuppya or ' three characters ' of a valid middle term; and by a syllogistic, and a classification of fallacies, largely based on this canon. When logic passed into the hands of schools which recognised only two instruments of knowledge-perception and reason-ing-instead of the four recognised by the Nyäya school, there ceased to be any real reason for retaining the first and fourth members of the five-membered nyāya or method of demonstration • for, as Vātsyayana teaches, the value of the first member is to lend authority to the demonstration, and of the fourth to contribute some (not very clearly conceived) analogical factor to the argument. Schools which rejected authority and analogy as independent means of proof would naturally find no function for the 'Proposition' and the 'Application,' and would therefore tend to a three-membered syllogism. The logic of this period is not altogether consistent in this respect: it continued, for example, to recognise authority, in admitting False Proposition as an independent class of fallacy. And it did not altogether reject the fivemembered syllogism, but contented itself with drawing a distinction between inference as drawn by oneself and inferential apprehension as conveyed to others. The latter retained the five-membered form. Finally, although the new doctrine formulated the third member of the Naiyāyika syllogism as a statement of inseparable connection between absitract
eharacters or universals (avinäbhäva-the later vyāpti), with the order of the terms fixed according to a formula (vidhi) ' whatever is M is $P$, and whatever is not $P$ is not $\mathrm{M}^{\prime}$, it still retained the mention of examples (which are in fact an essential element in its formulation of the trairupya or canon of syllogism), and it retained the old name 'exemplification' (nidarsana $=$ udāharana) for the third member of the syllogism; although this had in fact become a genuine ' major premise '.

Diñnāga's Pramą̣asamuccaya and PraEaştapāda's Bhäsya on the Vazsesika system are typical works of this period: and the relation between them has been the subject of long controversy. The former work is not extant in Sanskrit, and the fragments of it quoted by Văcaspati Miśra and others are not sufficient in themselves to settle the question of Dinnāga's relation to Vaisesesika logic. Jacobi ${ }^{1}$ took the view that Buddhist logic derives from Vaisessika. Stcherbatsky ${ }^{2}$ on the other hand argued that Praśastapāda borrowed his logic from Diñnăga, and that he made rather disingenuous efforts to conceal his obligations. It is however clear that Dinnăga, in his attack on the Nyäya had a predecessor in Vasubandhu, whose criticisms of Naiyãyika doctrines are several times cited by Uddyotakara, and who is known from Chinese sources to have written specifically logical works. It has also been held with much probability that Prasastapäda had predecessors in commenting on the Vaisesika system : though of this no definite evidence is forthcoming. The question is further complicated by the fact that a work attributed to Diǹnaga by Tibetan tradition under the title Nyäyapravesa. the teaching of which shows a similarity to the logic of Praśastapāda almost amounting to identity, is assigned
${ }^{2}$ Indeche Logik. Gottingen, Nachrichten, phil-hust, pp. 458-
in lo Mureon, val v, 1904.
by Chinese tradition to another writer,-Samkara Svāmın, said to be a discıple of Diñnäga.

There is very close similarity between the logic of Prasastapāda and that of Diñnāga. Diñnāga's date shares the uncertainty attaching to that of his master Vasubandhu. He may fall anywhere between 400 and 500 a.d. Suali's opinion is that Dinnaaga and Pra\&astapāda are almost contemporaneous ${ }^{1}$, and that Vātsyāyana preceded ${ }^{2}$ both. That Dinnāga ${ }^{5}$ is later than Vătsyāyana is definttely proved-if any proof were needed -by the fact that the former writer ridicules the appeal to the methodological principle (tantrayukti) of tacit acceptance (anumata) as employed by Vātsyāyana in his commentary on NS I. i. 4. That Praśastapāda is later than Vātsyāyana becomes almost certain from a comparison of their logical doctrines ${ }^{4}$, though no passage in the former work has yet been found which quite definitely refers to the latter.

Although Uddyotakara writes with constant reference to the logic of Dinnnāga, it is difficult to point to a passage in which he refers to the logic of Praśastapãda.

[^18]It is easy to understand that he would tend to avoid reference in this connection: for nearly all the criticisms which he directs against Dinnāga would be applicable to Praśastapāda : and therefore he could not refer to the latter, in connection with logical topics, without attacking the sister-sãstra. But no one occasion ${ }^{1}$, at any rate, where it was possible to show that Prasastapēda was right and the Buddhist logic wrong, he makes an ondoubted reference.

His references to Prasastapūda's physical and metaphysical doctrines are detailed and indubitable ${ }^{2}$. Indeed there are passages which must be read as commenting rather on Práastapāda than on the Nyäya ${ }^{3}$.

[^19]That later commentators attributed high antiquity to Prasastapāda ${ }^{1}$ is shown by the fact that Vàcaspati Miśra cites his words ( $P B h \mathrm{p} .308$ l. 5) as päramarşavacana (NVT p. 458 1. 8)². Praśastapadabhäşya was known to Dharmapāla (539-570 A.D.), and Paramărtha (499-569 A.D.). And there are said to be even earlher references to Prasastapada in Buddhist writers, notably in Vasubandhu.

Stcherbatsky has recently ${ }^{4}$ admitted that the views which he put forward fifteen years ago-views which were strongly grounded in the evidence then avail-able-must be revised in the light of further knowledge. He now makes three points:
(1) idealistic tendencies showed themselves again and again in vanous contexts in the course of Buddhist philosophy;
(2) the sūtras of the Nyäya which seem to refer to the idealism of the vijñänavāda can be differently interpreted;
(3) we have positive proof of the existence of a systematic Nyäya and Vaisesesika long before Vasubandhu's time.

NV p 32213 kathath tarh: gotvath gopu vartate diray $\overline{\text { diraythä }}$ tena. kah tunar afrayaírayibidatah? samadestah. tatra orttsmad soteam, -ortic eamavaya (ithapratjayahetutodd tity ulctam.
PBh p 324, 119 ayutantddhdndm dihdryadhgrabhatanām yah sambandha ihapratyayahetuh, sa samavdyah.
(VS VII $n 26$ inedam sts yatah karyakdranayoh, sa samapayah. Uddyotakara's phraseology however seams to echo Frasastapyde rather than the satra -For a later objection see Kumarrila Sl Vart., anumana, 100, cited below p 805).
${ }^{\text {IV }}$ Vindhyévar Praskda Dvivedin (Dnbe) in his preface to the Viz Skt. Series edn of PBh sdduces other evidence to this eifect
${ }^{\text {n }}$ I owe this reference to the hist of identified quotations given by Gahgadhars Sästri Tailange in his edition of the NVT, He gives one other catation from PBh., viz, NVT p. 81 1. 27 ce PBh p 989 l .15 (definition of sukha).
${ }^{6} \mathrm{~V}_{1}, V P, \mathrm{pp}, 74-79$ and p. 18.
'Erkenntnestheorss und Logik nach der Lekre der apataren Buddhuten : Zbersetzt von Otto Strause - München-Neubiberg, 1924. Pp 859 286.

He still holds that Vātsyāyana in the introduction to Nyäya-sūtra IV 2.26 interprets the sūtra as referring to an idealist opponent, ${ }^{1}$ and he accepts the supposed reference as the true interpretation of the sütra : but he now believes the reference to be to an older idealism, and not to that of Vasubandhu. "The $V i j \tilde{n} \bar{a} n a v \bar{a} d a$ is as old as the Su$n y a v a \overline{d a}$, or perhaps considerably older '. He therefore now accepts (though on different grounds) Jacobi's statement"We are therefore almost certain that two sūtras at least, N. D. and V. D., preceded the origin of the Vijñanavāda, or rather its definite establishment'",the 'definite establishment' of the Vijn $\bar{n} n a v a \bar{a} d a$ being understood to refer to the foundation of it on a logical basis by Vasubandhu.

In connection with his third point-"that the Nyäya-Vaisesika system is considerably older than the later (epistemological) vijñānavāda"', Stcherbatsky states that Vasubandhu himself deals with Vaiseṣika views on the existence of the soul, and that he cites the definition of samyoga, not in the words of the Vaiseşika sütra (III.ii.22), but in the phraseology of Praśastapāda (PBh. p. 139 1. 18 aprāptayoh praptih samyogah). He is not prepared to suggest that both Praśastapada and Vasubandhu derive from an older source. He further cites Ui's statement (Vaiésikika Philo-

[^20]sophy, p. 73) that Vasubandhu in the Buddhagotrasāstra refutes a Vaisesika doctrine of sound as comprising three moments, a doctrine which is not found in the Vaiseṣikasítra but only in the Bhäsya. " Praśastapāda is evidently its originator". ${ }^{1}$

From these facts he draws the conclusion that Praśastapäda was etther a predecessor or a contemporary of Vasubandhu. The problem of the relation between Vaisesika and Buddhist logic, therefore, has now assumed for him an entirely different form. It is no longer a question whether Praśastapāda borrowed his logic from Dinnäga, or vice versa. The suggestion now made is that Vasubandhu made use of Praśastapāda's logic, and that therefore Dinnäga's logic is derived through Vasubandhu from Prasastapāda. This however assumes that there was no development in the Vaisesika school between the Sūtra and Praśastapāda,-an improbable assumption.

The date of Vasubandhu. If the date of Vasubandhu could be determined it would provide an invaluable fixed point for the determination of other dates. Unfortunately it remains controversial. Takakusu, ${ }^{2}$ basing his argument on the biography of Vasubandhu by Paramärtha, came to the conclusion that he lived $420-500$ A.D. This was generally accepted until Noel Péri ${ }^{3}$ advanced strong reasons for carrying the date back a centurv and a half earlier. Vincent Smith ${ }^{4}$ and Keith ${ }^{s}$ accept Péri's

[^21]conclusions; but Stcherbatsky ${ }^{1}$ considers that they are based on the false assumption that there was only one Vasubandhu, whereas in fact there were two,-if not three,-famous persons of this name. One was the great Vasubandhu, a Hinayänist 'Vrddhäcairya Vasubandhu' who is often cited in Vasubandhu's Abhidharamakośa. A later Vasu-bandhu,-commonly called 'the Bodhisattva Vasu'-, was a Mahäyānist author of a commentary on Aryadeva's Satasástra: Takakusu's date is the probable date for him.-Until this controversy is decided, it is useless to build up an absolute chronology round the date -of Vasubandhu as a fixed point.

## SECTION 4. UDDYOTAKARA AND DHARMAKIRTI.

Uddyotakara must have been either contemporary with or prior to the novelist Subandhu, who speaks

[^22]of him by name in his Vāsavadattã ${ }^{1}$. Subandhu in turn is complimentarily referred to by Băna, who writes as a youthful poet in the later years of Harsa (604-648) at Thānesar, and is apparently ${ }^{2}$ paying a compliment to Subandhu on the recent production of his Vāsavadattā. It may be similarly conjectured that Subandhu (writing perhaps about 640 A.D.) is honouring a philosopher still living at the court of Harsa when he speaks of the stability of the Nyäya as being embodied in Uddyotakara. ${ }^{3}$. And the latter conjecture finds some confirmation in a chance phraseused by Uddyotakara in the Värtika (p. 113): ' this road leads to Srughna '. For, as Vidyābhūṣāna points out, Srughna was only forty miles distant from Thänesar, and must from its position have been an important stage for travellers to or from Thānesara'. It is not improbable therefore that Uddyotakara lived at Thänesar in the reign of Harsa.

Uddyotakara himself tells us that his commentary is intended to put an end to the misunderstanding of Aksapāda's teaching which had been brought about by bad logicians (kutārkika) and Vācaspati Miśra explains that these bad logicians are Dinnāga and others ${ }^{8}$. It has been held ${ }^{8}$ that the Bauddha logician Dharmakirtn was a contemporary of Uddyotakara and is referred to in the Nyāyavärtika as the author of a $V \bar{a} d a v i d h i$ and a Vādavidhänatīkā which Uddyotakara mentions by name ${ }^{7}$. But

[^23]there are reasons for identifying the Vādavidhi with a work which Chinese tradition asserts to have been composed by Vasubandhu and of which Hiuen-tsang-a contemporary of Uddyotakara-says that he saw a copy during his travels in India. No other reference by Uddyotakara to Dharmakirti and his works has been adduced : and there are positive indications that, although Väcaspati Misra frequently extends the application of Uddyotakara's arguments against Dıñnäga so as to make them bear upon Dharmakirth's statements, Uddyotakara himself was either unsware of or else ignored Dharmakirti's views. Văcaspati Misra is careful to point out that Uddyotakara's criticism of Dinnnāga's defintion of perception would not be applicable to Dharmakirti's revised statement, though it is applicable to Diñnäga's'. If Uddyotakara had been aware of a revised form of the Bauddha doctrine to which his criticism did not apply, it is likely that he would have supplemented or modified his arguments Besides the chronological indications are that Dharmakirti was rather later than Uddyotakara². He is not mentioned by Hiuentsang (629-645 a.D.), but is spoken of by I-tsing (671-695 a.d.) as having introduced reforms in logical theory. Vidyäbhūsana finds a reference to the Nyāyavärtika in his Nyäyabindu, but this is doubtful ${ }^{3}$.

[^24]Dharmakīrti's Nyāyabındu is a brief work, and, although its recognised importance is shown by the commentaries written upon it, ${ }^{1}$ the attention which it has attracted is partly due to the historical accident that it has survived in Sanskrit. For it is after all no more than a manual, and cannot be compared for philosophical interest with the monumental works of Uddyotakara and Väcaspati Miśra. Uddvotakara's Nyäyavārtika is on the other hand one of the world's great treatises on logic; though its greatness tends to be obscured by the atmosphere of incessant and often hyper-critical polemic in which it has its being, and which makes it a matter of considerable difficulty to discover what its author's positive doctrine is. Vācaspati's phraseology ${ }^{2}$ suggests that it had become obsolete even in his time, two centuries after its composition: and it seems clear that it failed to achieve that nyäyasthiti, or establishment of the ancient tradition of the Naiyäyika school as against the innovating logic of

[^25]the Vaisesika and Bauddha schools, which it was Uddyotakara's professed object to achieve. In the two centuries which followed logic fell into the hands of eclectic logicians, and the pure Naiyāyika tradition may perhaps be sald to end with Uddyotakara.

## section 5 kumarilla and vacaspati misra

There is no logic in the Mīmämisä-sūtra; but a theory of knowledge and the beginnings of logic proper are to be found in the tarkapada of Sabara's Bhäsya thereon; that is in his comment on Mïmämsāsūtra I.i. Sabara's date is uncertain, and the question is complicated by the fact that most of his logical teaching is given, not as his own, but in the form of citation of a long passage from an earlier anonymous commentator, the 'vịttikāra.' This passage polemises against a doctrine which is not the developed idealism of the vijũänaväda. It seems to be much the same as that attacked in the Vedäntasütra and the Nyäya-sūtra, though perhaps the idealistic moment in the argument is more prominent than it is in the theory attacked by the Nyäya-sütra. Keith concludes that the Vrttkära ${ }^{2}$ is probably not later than the fourth century A.D. ${ }^{1}$. The language used sometimes suggests acquaintance with the $N y a \overline{y a}$ sütra; and the logical conceptions are certainly considerably earlier than those of Praśastapāda, and possibly rather earlier than those of Vātsylayana. Sabara does not seem to be separated from the $V_{\text {rttikāra }}$ by any considerable interval : and a date in the neighbourhood of 300 A.D. may be provisionally assigned to both writers.

[^26]The beginnings of logical theory here laid down developed into two Mīmämsaka schools.: the Präbhakara, based on the Brhati commentary on Säbarabhā̧̧ya by Prabhakara, to whom a date about 600650 A.D. has been assigned ${ }^{1}$ : and the Bhätta school, which derives its name and doctrine from Kumärila Bhațta, whose Slokavärtika or verse-commentary on the tarkapāda of Sabara's Bhäsya is one of the most famous and the most frequently cited of Indian philosophical works, Kumãrila cites and criticises Bhartrhari, ${ }^{2}$ the phlosophical grammarian and author of the Vākyapadiya, who is also cited by Vācaspati Miśra. Bhartrhari is stated by I-tsing, the Chinese traveller who was his later contemporary, to have died in 650 a.d. Kumārila is himself cited and critised by Samkarācarya' : and Samkara's date (after much controversy) seems to be fixed in the neighbourhood of 800 A.D. On these grounds the date $700-750$ has been assigned to

[^27]Kumarila, and this may be accepted as the nearest approximation at present possible. H1s logic owes much of its detail to Prasastapāda and to Diñnāga, the latter of whom he criticises; and he seems to refer also to Uddyotakara. The most noteworthy feature in it is his emphasis upon the part played by the universal (sämänya) in inference, and his quantitative formulation of the relation of the major and middle terms in the syllogism as vyäpya (gamaka) and oyäpaka (gamya). In these respects he only carries further doctrines already contained in Prasastapāda, and he probably had much to do with the introduction into later Naiyāyika logic of elements in Praśastapāda's logical doctrine which Uddyotakara rejected. His logical doctrine is very much that of the 'classical' Nyäya: and the frequency with which his Slokavärtika is cited by Väcaspati Miśra and Sridhara ${ }^{1}$ is an indication of the influence which that work had on later writers on Nyăya.

Vācaspati M1śra gives us his own date in the closing verses to his Nyäyasūcinnbandha,-his 'edition' of the Nyāya sūtra, arranged into prakaraṇas or topics :
nyāyasūcinibandho 'sāv akāri sudhiyäm mude srīvācaspatimisreña vasvañkavasuvatsare.

Vasvañkavasu means 898. But what era is intended?

If it were the Saka era, the date given would be equivalent to 976 A.D., which is too late, seeing that Udayana, who wrote the Nyäyavārtikatātparyapari-suddhi-a commentary on Vācaspati's Nyāyavärtika-tātparyafı̃kā-, again gives us his own date as 984

[^28]A.D. ${ }^{1}$, and an interval must be supposed between the two commentaries. For this and other reasons ${ }^{2}$ the year 898 must refer to the Vikrama era, and must be understood as equivalent to 841 A.D.-Vācaspatı Miéra was a doctor of many phulosophies. He gives us a list of his own works in the closing verses to his Bhāmati or commentary on Samkara's Sārītaka$b h a ̈ s y a$. The list there given is (1) Nyāyakanikā (2) Tattvasamik $k_{8} \bar{a}$ (3) Tattvabindu (4) a commentary on Nyäya (5) a commentary on Sämkhya (6) a commentary on Yoga (7) a commentary on Vedänta. The four latter commentaries-nibandha-are no doubt the Nyāyavārtikātātparyaṭīk $\bar{a}$; the Sämkhyatattvakaumudī; the Tattvavaisāradī, on the Yoga; and the Bhāmatī itself. The last mentioned 18 of course the latest-written of these seven works. The Nyāyakanıkā, a gloss on Maṇdana Mı́́ra's Vidhiviveka (on the Mimā$\dot{m} s \bar{a}$ ), is mentioned in the Nyāyavārtikātātparyaṭikk $\bar{a}^{2}$, as 18 also the Tativasamīksä ${ }^{4}$.

The Nyāyavārtikatātparyaṭīkā itself is mentıoned in the Sämkhyattvakaumudī${ }^{5}$. We are thus able to fix the order of Vācaspati's works to this extent, that (1) and (2) in the above list preceded (4), that (4)

[^29]preceded (5), and that (7) was the latest of all. It is not unreasonable to conjecture that (6), the commentary on Yoga, was written after (5), the commentary on Sämkhya: so that the list of his works which he gives follows the order in which they were written. He does not mention the Nyäyasücinibandha, probably because that was a mere appendix to his commentary on the Nyāya: in which case we may fairly infer that 841 a.D. is the date of the earliest of his four great commentaries. We must then allow at least a period of ten years, if not more, between this date and the date of his commentary on Samkara's Bhassya, which would therefore have been composed after 850 . This conclusion removes a certain difficulty by widening the interval of time between Samkara and his commentator.

As regards the remaining two works, the Tattvasami $k s \bar{a}$ would seem to have been a Vedantist work in which the nature of truth was dealt with, while the Tattvabindu treated of Kumãrıla's teachings.

Six of these seven works are not only extant but available in modern editions ${ }^{1}$-a rare fate for an Indıan philosopher. Vācaspatı Miśra admits that his logic contains innovations, notably in respect of his doctrine of savikalpaka and nirvikalpaka perception. This he attributes to his teacher, Trilocana, who must have flourished about 800 A.D., but about

[^30]whom we know little beyond what Vācaspati tells us ${ }^{1}$. Udayana appears to generalise this into the statement that Väcaspati used the teaching of Trilocana to rejuvenate the Naiyäyika school, the tradition of which was in its prime in the time of Uddyotakara. The renovation was carried out in an electic style which owes much to Prasastapāda, as well as to the Bauddha and Mimämisaka logicians whom the new school continued to combat. But it was not 'modern'.

It would be difficult to point to any doctrine in the Tätpäryatīkä which does not derive from the earlier schools. It is with Udayana that new conceptions begin to appear. A survey of the logic of the older schools rightly ends with Vācaspati.

[^31]
## CHAPTER I

## TROTH

Value of trath-Vilidity-svatahprāmānya snd paratahprämānya-Negative $\boldsymbol{j}$ adgment-Conditions of possibility of error-Five theories of orror (translation of NVT, pp $54-57$ ) - (1) Error as apprehension of the merely subjoctive atmakhyäts. (n) Error as apprehension of the non-existent. asatkhyatt (in) Error as apprehension of what neather we nor wot not. antracanlyakhyäts (iv) Error ss non-spprehension akhyath. (v) Error as the apprehension of things othervise than as they are anyathäkhydit.

THE prcblems raised in this and the following chapter are epistemological What is our guarantee that we really know when we think that we know? How is it that error is possible if the nature of knowledge is such that de jure the object of cognition is reality itself? If error presents ' false objects' to the mind, is it not a possible hypothesis that the objects of perception are as unreal as dreams? As a matter of fact is it possible to give an intelligible account of the object considered as real, and does it not dissolve under intellectual analysis? And finally is not the perceptual process itself such as to suggest that the object, with which it supposes itself to be in immediate contact, is in fact a complex of fictive elements substituted by the imagination for the thing-in-itself?

These are still the problems of modern epistemo$\operatorname{logy}$, and the spirit and method in which the Indian pbilosopher approaches them are in no important
respect different from, but in all essentials quite parallel with, the spirit and method of contemporary philosophy. It is easy to abuse the comparative method in interpreting ancient thought; and the student of Indian philosophy has to be constantly on his guard against a tendency to confound differences which is the most insidious enemy of a sound and scholarly understanding. But it does not follow that, because the comparative method has been widely ahused, no use can be made of it And it is perhaps in these problems of epistemology that the use of the romparative method is most enlightening. I therefore make a few observations here on some of these probleuss as they present themselves to modern thought. ly way of introduction to the Indian discussions of thein.

The so-called ' problem of knowledge' of modern epistemology has arisen from the view that the mind knows reality through the medium of its ideas: from which it seems to follow that the direct object of the mind is its own ideas. Locke therefore defined an idea as the object of the understanding when a man thinks. From this it is a natural step to Berkeley's principle esse is percipi: for it seems useless to suppose the existence of things 'outside the mind', seeing that we are confined within the circle of our own ideas, which on Locke's account of the matter, are the objects of the mind. Nor does there seem to be any way out of the difficulties thus arising, so long as we accept Locke's 'way of ideas' Reid saw this, and therefore asserted the fundamental position of a realistic, as opposed to an idealistic, epistemology,that we apprehend reality directly and not through the medium of ideas. The idea, as a tertium quid between the mind and things, is therefore denied to exist. Similarly the starting-point of contemporary
realism is perhaps Moore's article entitled 'A Refutation of Idealism" which sımply denies the selfevidence of the Berkeleian principle esse is percipi. The realist, on the contrary, asserts the self-evidence of the contradictory principle-esse is not percipi. The essence of knowledge is that the object of the mind when a man thinks is the real itself, and not his own 'ideas'. There is then no problem of knowledge.

Unfortunately there is a problem of error, on the realist theory of knowledge, just as there is a problem of knowledge on the 'idealist'2 theory. In fact it can farly be said that error is impossible for the realist, and truth for the idealist ${ }^{3}$. As soon as the realist admits, even in a single case, the presentation of a false object to the mind, he 18 back again at the admission from which the idealistic hypothesis starts : for if an object is unreal it would seem inevitable to admit that its esse is percipi. And yet it has all the stubborn objectivity of a real object and if objectivity is in even one case not a guarantee of reality, how can we be sure that it is a guarantee of realitv in any case? Thus the modern realist finds himself forced back upon the paradox of the akhyati-cäda, the Mimämsaka theory of error,-that error is merely negative, an absence of apprehension : and that every object apprehended is entirely real-although it is not the entire reality. Sarva eva pratyayā yathärthāh. He will also hold the Mïmämisaka view of validity, that cognitions are self-evidently true (svatah-prämänya) Similarly, the Mīā $\bar{m} s a k a$ is at one with

[^32]the modern realist in denying that thoughts are ' presentations' (akākäram jñānam) ${ }^{1}$-there are no 'ideas' in Locke's sense. But it is no easy matter to explain error as mere failure to apprehend ${ }^{2}$. And the Naiyäyika (who takes up the position of the modern ' critical realist ') seems therefore to have the better of the argument with his view that error is positive misrepresentation or seeing things wrong (anyathäkhyāti-vāda). This is the common-sense view that some of our objects are real and some are false But it is difficult for realists of this school to avoid the admission that in some cases at any rate the idealist's account is right and that the mind has the faculty of projecting its own ideas under the guise of an external reality ${ }^{3}$ (ātmakhyāti-vāda); and this seems to debar us from admitting the self-evidential nature of even true cognitions (svataḥ-prāmānya), since both true and false cognitions are equally objective, so that it will be impossible to distinguish between them-unless by some criterion extrinsic to the cognition (paratah-prāmānya), an unsatisfying doctrine which the Naiyäyika is therefore compelled to maintain, though without laying too much stress upon it. But. whatever may be the difficulties of the two 'objectivist' or realistic theories of error discussed by Vancaspati, he puts the realistic ' refutation of idealism' in a way which anv modern realist would approve when he asserts the inherent objectivity of what we apprehend and raises the searching question " whence comes this notion of the ideality of the apprehended object "?

[^33]
## SECTION 1. VALUE OF TRUTH

The Nyāya-sütra gives no definition of truth. In the three opening sutras ${ }^{1}$ it says that the attainment of the Summum Bonum results from knowledge of the real nature or truth (tattva) of the sixteen topics(padartha) ${ }^{2}$ of the system : that release (apavarga) from the cycle of birth and rebirth results from the absence, following upon such knowledge of truth, of the series error-defect-activity-birth-nain ${ }^{3}$, there being a successive disappearance of these when truth is known: and that perception, inference.

[^34]
# 'analogy' ${ }^{1}$ and testimony, are the means of knowing trath (pramana). The introductory portion of 

[^35] which
${ }^{2}$ For the varying enumeration of the 'instruments of knowledge in the different schools, bee below p. 805 and footnote
'Teatmony' is fundamentsl in the Nyaya, ss in all the orthodox philosophrea (It is true that the Vasieprica school nominally rejected testimony as a separate ingtrument of knowledge, reducing it to inference But as the inference to which testimony is thus reduced is not an inference which tells us anything about the matter teetufied, but only an inference from the credibility of the witness, there 18 no practical difference between the attitude of the Variegika and that of the other schools to geriptural and canonical -anthority). Vstsyayans explicitly eays that the 'investigation', anvikē̄, in mitue of which the sastia claims to be anvikgiki oidyc, is inference supported by perception and testımony The nyäya', or method of demonstration from which the system takes its name, is cortamly not pure ressoning "What 18 this nyaya? It is the anvertigation of a thing by the matruments of know ledge-pramanair arthaparikyanam nydyah" (And testimony is one of the praminas, which is admitted specifically to a position as one of the mombers or avayava of the demonstration, in the Proposition or pratifna, the prelmin ary statement of the conclusion The mere statement of the probandum is in fact part of the ground for secepting it, in a genmine nydya for, as Vatsya yans elsewhere ssys, agamali pratipid-the Proposition is suthoritative teatimony The other ' nembers ' merely follow up and explicate this author-ity-genorated knowledge And no the present passage goes on - ) "Infersace relying on perception and tegtimony is anoiksa, investigation that is, the anvikgapa or after-spprehension of somothing that has already been 'iksite', apprehended, by perception and testımony The Nyäyadastra functions through this sort of 'anviksa' or investigation, and so constıtntes 'änvikqıki midyd , the acience or art of inveatigation (But) inference which contradicta perception or testsmony is fallacious demonstration (nyayabhasa)'. However umpeccable an inference may appear, judged by the canons of un--orthodox logic (og, by the trasripya of the Buddhist logic), it is stall bădhita, null and voic, if it contradict authoritative testimony (NBh p 3 4) 14-17)

Uddyotakara 18 even more explicit, if possible, than Vatsyāyana " The charactersisic of the fistra is exposition of the truth about a thing which tranacends perception or reanoning . . . When people rely on contact of object with sense, they (spprehend truth) through perception when they rely on experience of a middle term and on memory (of connection between the maddle and the major) they apprehend at by inference - but when they rely on santhoritative instruction (upadesa) then the fastra comes into play "Nr p 818 and 17

It might seem that Indisn philoeophy of the orthodox schools, starting thus from foregone conclusions, must be a syatem of dogmatism of hittle mterest to those who do not sceept the seriptursi or canonical authority on which it is profeasedly based But this in in fact far from being the case. The orthodox achools had the sdivantage of fecing. in Buddham, a vigorous opposition which pressed free enquiry to the extreme limits of ecepticusm. These opponents outerde the fold had to be met with theur own wespons, which were perception and inference. The fortunste result was that the trammels of anthority do not prevent the Indian thinker from following where the argumanat loenden

Vātsyāyana's comment on the first sūtra embodies, however, three sütra-like 'sentences' (väkyāni) ${ }^{1}$ which seem to raise the problems of the criterion of trath and of the nature of the object of knowledge in a specitic form. In the commentators' observations on these ' sentences ', and on the second sütra, a more developed answer can be found to the question What is truth ?,and, more particularly, to the question What is error? If there were no error, there could hardly arise any 'problem of truth ': and it is in the difficulty of explaining error that the problem of the nature of truth first arıses. Thus Vācaspati Miśra (on NS I. i. 2) enumerates five theories of error, and refutes four of them ${ }^{2}$.

## SFCTION 8 VALIDITY, SVATAHPREMANYA AND PARATAFPRAMANYA

The first of the three $v \bar{a} k y a s$ is as follows - -

1. pramānato 'rthapratipattau pravprttisämarthyäd arthavad pramānam.
" Knowledge gets at the object : because the capacity of practical activity to achicve its object is condi-

[^36]tioned by the grasping of the object through the instruments of knowledge." The purport of this väkya plainly is to argue that knowledge (or the instruments of knowledge ${ }^{1}$ ) must be accepted to be valid, because if it were not so we could not-as we do-acheve our practical objects. That is to say, it seems to be an early and simple statement of the characteristic Naiyāyika doctrine of paratah prāmānyam, i.e. the doctrine that the validity of knowledge is known 'frcm something else' than from the knowledge itself. How do I know that I know? Because my knowledge works in practice ${ }^{2}$. The opposed doctrine is that taught by the Mimämsaka school,-the doctrine of

[^37]svatah prämănyam or self-evidence: that the validity of knowledge is known ' from itself '.

The motive which led the Mimämsaka school to adopt the doctrine of the self-evidential nature oi cognition is plain from Sabara's commentary on Mīm$\bar{a} m s a \bar{a}$ Sütra 1. i. 2. It was a device for throwing the onus probandi on those who doubted the validity of scriptural injunctions.
" That cognition only is false which, after having originated, subsequently lapses (is set aside)-there arising a further cognition 'this is not so'. But the cognition brought about by a Vedic Injunction 18 not set aside at uny time, or in the case of any person, under any conditions or at any place • hence it cannot but be true " (Thibaut's translation). When the Veda enjoins that a man desirous of heaven should perform sacrifice, how is it possible to disprove that sacrifice leads to heaven? It is not possible ! argn, the injunction leads to a cognition which is valid: since every cognition is valid unless and untıl it is disproved-and this can never be disproved. Kumärila (or a predecessor) developed this naïve position into a generalised doctrine of the intrinsically self-evidential character of knowledge. " Some maintain that, since cognitions untrue by themselves cannot by any means be proved to be true, the validity as well as the invalidity of cognitions is due to themselves (is intrinsic). Others hold that a cognition becomes valid or invalid from the ascertainment of either the excellences or defects of th~ $n$ cause to which it is due " ${ }^{\prime \prime}$. The principal objection urged by Kumārila aganst the former view is that " without reference to something extraneous it could not be determined which character (validity or nonvalidity) belongs to which particular cognitions "., -

[^38]that in the end the theory of intrinsic validity-andinvalidity has to be abandoned. He then turns to another view ${ }^{1}$,-" Let, therefore, non-authoritativeness be considered as the natural character of cognitions, while, their authoritativeness depends on something else." The supporter of this vew urges that error is the natural thing-as illustrated in the case of dreams: and (invalidity being the mere negation or absence of the positive character, validity) it is methodologically unsound to treat the mere negation, invalidity, as a quality superadded to the cognition, and to assign it to a positive cause, viz, the presence of 'defects' in the cognition, as the Mīmämisaka doas. The truth rather is that it is the addition of certain virtues or 'qualities' (guna)-extrinsic to cognition-which makes the cognitıve process (in itself inherently invalid), valid. The so-called defects (which are supposed to be the positive cause of error) are no more than the absence of the 'excellencies' "The general conclusion against the Mīā$\dot{m} s a k a$ then is that Vedic injunctions cannot be considered authoritative, for if they are not due to $\mathrm{men}^{2}$ (possessing such good qualities as trustworthiness and so on), they cannot claim any authority; and, assuming they were due to men it

[^39]would be impossible to show that those men possessed the required perfections (capacitating them to lay down the law on supersensuous matters). Vedic mjunctions thus have no ground to stand on " $"$.

The principal objections urged by Kumārila against this view are, in the first place, that superadded ' qualities ' could not lend to cognition the capacity to know truth, unless that capacity were inherent in it; since a faculty which a thing does not possess in its own right cannot be produced by another agency ${ }^{2}$. And, in the second place, the demand for proof of the validity of cognition leads to a regressus ad infinitum. If you insist on asking ' How do I know that I know ?', you will also have to ask ' How do I know that I know that I know ?'. ' If even when a cognition has originated its object were not definitely (certainly) known until the purity (excellence) of its cause is cognised through some other means of knowledge, we should have to wait for the origination of another cognition due to another cause . . And this other cognition again would be authoritative only on the cognition of the purity of its cause, and so ad infinitum. The person proceeding in this way would never reach a final resting place '"

[^40]bection 3. nbeative judgubats
The second and third 'sentences' or vaxkyas in the Nyäya-bhäşya introductory to Nyäya-sūtra I. i. 1 are as follows :-
sataś ca sadbhāvo 'sataś cäsadbhāvaḥ
and
saty upalabhyamāne tadanupalabdheh pradīyavat.
That is:" The knowledge of what is as existent, and of what is not as not existing '" (constitutes truth). The question arises how, in the latter case, there can be apprehension through an instrument of knowledge. " As in the case of a lamp, where an existent thing is perceived, from non-perception of that " (i.e. from not perceiving the non-existing thing we apprehend it as not existing). Vātsyāyana says : satah prakāsakam pramānam asad api prakāśayati-" the instrument of apprehension that reveals existent things also reveals what is not there. When visible objects are apprehended by means of the lamp that shows them, we argue, 'what is not apprehended like this is not here, for if it had been I should have seen it as I see this It is not here because I do not apprehend it (vijñānābhāvān năstīti)' '".

The problem is that of the negative judgment; and the reason why it is raised here is not apparent, seeing that a section is devoted later on to dialectical difficulties in connection with the apprehension of absence or non-existence ${ }^{1}$. Perhaps it was felt that the absence of all reference to non-existence or negation in the enumeration of the sixteen categories in the first sūtra needed some explanation. Vätsyāyana, after the observation that the instrument of apprehension that reveals existent things also reveals the non-existent,

[^41]goes on: " and it is the existent that will be taught in sixteen divisions " : the implication of which is that in teaching the existent the sästra will have taught what does not exist, -oo ${ }^{2 p s o}$. Uddyotakara ${ }^{1}$ says that the word tat, from which tattva 'that-ness' is the abstract noun (meaning 'truth' or 'reality'), includes both the existent and the non-existent. That is, the 'that-ness' of things comprises both the truth as to what they are and the truth as to what they are not. Both what a thing is, and what it is not, are alike objects of knowledge (pramāx̣avişaya, prameya) : and both alike can be asserted or denied. An opponent thereupon suggests that if both the existent and the non-existent are alike objects of knowledge (prameya) it will be impossible to maintain the distinction between existing and not existing This 18 another aspect of the dialectical difficulty about the negative judymenthow can you know what is not? The point here made by the opponent is that in asserting knowledge you assert the existence of its object: but in the negative judgment the object is asserted as not existing : so that an apparent self-contradiction is involved.

Uddyotakara replies that the inference that two things (existence and non-existence, for instance) are not distinct because they are alike (in respect of both being objects of knowledge, for instance) proves too much. For, by parity of reasoning, a cow would not be distinct from a pot.
gection 4 CONDTtIONS of possibility of error
Vācaspati Miśra devotes a section ${ }^{2}$ to the likeness between the existent and the non-existent (sadasatoh särūpyam), in connection with the problem of

[^42]error. His general position is that false judgments always proceed on the basss of some rerisimilitude, or community of character between the real thing and the false appearance: " we do not mistake a taste for a colour, nor a mosquito for an elephant ${ }^{1}{ }^{\prime \prime}$. For instance, when the jaundiced eye sees the white conch as yellow, what happens is that (a) we experience the yellow of the bile, mingled with the pellucid visual ray, as it emerges, and we experience it without a substrate; (b) we experience the conch with its whiteness obscured by the defect in the visual organ, and (c) we do not experience the dis-connection of the quality yellow with the conch. Owing to our failure to apprehend this dis-connection, there arises a similarity with the case of residence (of yellow) in such things as the yellow Cirabilva tree; and so we erroneously judge that the conch is yellow. Similarly when we have the experience of a lump of cane-sugar which is brought in contact (with the taste-organ) by the touch-organ, its sweetness is not experienced, and we experience the bitterness of the bile resident in the extremity of the taste-organ, while we do not experience a bitter object as the substrate of this bitterness: through not apprehending the absence of connection between the bitterness and the sugar ${ }^{2}$, there arises a similarity with the residence of bitterness in the Neem tree, etc., and so we form the erroneous

[^43]judgment that this sugar is bitter. But the process is so quick that we are not aware of the succession of phases in it ${ }^{1}$. We do not say that wherever there is resemblance there is error; but that wherever there is error there is necessarily some kind of resemblance. In the same way, in such illusions as those of diplopia, confusion of orientation, and the apparently continuous circle of fire produced by a whirling firebrand,' some kind of similarity has to be supposed. This being our general view of erroneous judgment, the objection is urged that (in the case of the erroneous negative existential judgment, 'the soul does not exist'), since there is not any similarity between the absolutely different notions of being and not being, an erroneous judgment would not be possible in this case. The Värtika meets this objection by pointing out ( $N V$, p. 25,113 ) that being and not being resemble each other in being alike objects of knowledge. Then the objection is urged that, if they are alike, there is no difference between them; and there can be no question of an erroneous existential judgment. This objection again the $V$ 'artika meets by explaining that the erroneous existential judgment 'the soul does not exist' proceeds by falsely attributing to the soul, which exists, the characteristics which belong to the non-existent, namely, absence of activities and qualities and so oc.

The theory of truth and error is developed by the later commentators in connection with the list of heresies,

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# and the parallel list of orthodox doctrines, given by Vātsyäyana in the Bhäsya on the second sütra ${ }^{1}$ : a passage which constitutes a kind of catechism of orthodoxy, drawn up in deliberate opposition to Bauddha and other heresy. But it is error rather than truth that seems to need an explanation ${ }^{2}$. - cocordingly Vācaspati proceeds to classify theories of error ${ }^{3}$. 

${ }^{1}$ NBh p. 7 I. 14 to p. 8, 1.6 gives the hat of heresies, eg that there is no soul, that what is not the soul (for example, the body) is the sonl; that what is resily painful is plessure, that the eternal is non-eternsl, inst activity does not entail ' karma' and the frut of karma, that transmigration does not umply a being that $s$ b born and lives (gantur jivo od) a apint (attiva, masc.) or sonl which dies and after death 1s, that transmigration comes about by the breaking up and reatoration (ucchedapratasamdhãnäbhyäm) of a contmuum (agthtäna) formed of body, organs, 'buddhs', and 'vedand ', and does not pertain to a soul (ntrātmaka); and so on

The parallel list of orthodox tenets is at p $8: 20 \mathrm{ff}$ It is introduced by the remark that the true doctrine is slready umphed as the opposite of the sbove heresies,-tattoafiñ̃nam tu khalu mithyäjū̄naviparyayệa vyd̄khyätam.

Vacaspati seems to admit that the first heresy, that of denying a soul, 1e. the Buddhist natrātmyavada, might clam certam advantages, as a mesns of putting an end to deare and aversion (rägadinsofttihetur nasrat-myadartanam)-for it is his 'self' (atma) that a man loves snd works for, while he hates and works against any who stand in the way of this 'self'. But, says Väcsspati, the doctrine is the prime source of the heresy (arsti) that there is no ' karma' nor fruit of karma, as also of the belief that there 18 no such thing as transmigration
${ }^{2}$ The older school of Nydya was perhaps a little uncertain in its doctrine of truth. It was rather the Mimalnsaka, with his doctnne of svatahprämannya, who succeeded best in formulating a self-consistent theory of truth. The Nyăya school adopted the doctrme of paratahprämanyya in opposition, mainly, to the Mimãhsaka msistence on the self-evidentisl character of scriptaral suthonty But the school did not carry out the doctrine thoroughly in applicstion to sll the pramapas. It would in fact be difficult to work out a theory of knowledge on the bsass of 'proofs' (pramdpa) none of which have self-evident probstiveness (evatahprdmãnya). It will be seen later on, in treating of the 'pramdunas', that the notion of pramüp̣a is *ubject to ambiguity, sometimes meaning 'proof ', but more often 'instrument of apprehension : It is this ambiguity which finds expression in the doctrine of paratahpramazya.
${ }^{2}$ There is parallelism of thought between the fivefold division of theories of error expounded by Vicaspeti Mifra, and the discuesion whether false opinion is posaible in Plato's Theatetur 187 D. ©.

## SECTION 5. THEORIES OF ERROR

Uddyotakara asks-What is error? His answer is that it is the cognition of 'that' in what is not 'that' (atasmims tad iti jñānam) ${ }^{1}$. Vācaspati Misra ${ }^{2}$ adds that the question as to the nature of orror is raised because philosophers hold different opinons about it (parīkṣakāṇām ripratipatteh samsayah).
(i) Theory that the object of erroneous judgment is merely subjective or ideal-ātmakhyãti.
" Some say that error is cognition consisting in a presentation and making externality its object ${ }^{3}$. That is, error consists in projectirg under the guise of an external thing what is really only an idea. This is the view of the idealistic school of Buddhism (vij$\tilde{n} \bar{a} n a v a ̄ d i n)$, and is known as the ātmakhyăti, or theory that the supposed external object is only the self (i.e. only our own 'ideas')

Vācaspati meets this view by asking what ground there is for saying that 'silver', in the erroneous judgment 'This is silver', is only an idea. The experience itself 'this is silver' declares 'silver' to

[^45]belong to the non-ego (anahañkārāspada), and does not declare it to be 'within the mind',-for if it did the experience would take the form 'I am silver' (anaham̀käräspadam rajatam ādarsayati, na cäntaram, aham iti tadā syät),-seeing that the Bauddha idealist identifies the self with ideas (pratipattuh pratyayäd anyatirekāt). Perhaps the Bauddha will say that the apparent reference to a non-ego is illusory: knowledge is mistaken (bhrāntam j $\mathfrak{j} \bar{a} n a m$ ), and is grounded in a mere idea projected as an external thing (svākāram eva bahyatayā 'lambate) : it is thus that its object, really only a content of consciousness, is referred to a non-ego (tathā cänahañkärāspadam asya visayo $j \tilde{n} \bar{a} n a \bar{a} k a \bar{r} r$ ' $p i$ ). (Thus the experience itself,' 'This is silver', conceals the fact that 'silver' is only an idea. But-) we can learn from the sublating cognition (bädhakajñāna-' it is not after all silver ') that 'silver ' was only an idea (jñānnākāratā punar asya bādhakajñannapravedanīyā). To this Vācaspatı rephes that of the Bauldha would put aside his idealistic presuppositions (vaijüānikapaksapātam parityajya) he would see that what the sublating cognition denies is that 'silver' is the form of the object before us (purovartidravyäkāratämätram pratisedhati rajatasya) - and it does not suggest further that 'silver' 18 only an idea (jinānākāratäm apy asyopadarsayati). Perhaps it will be said that the merely ideal character of 'silver' is established by implication as a result of denving that 'silver' is actually present (purovartitia), although the non-denial of the actual presence of the silver which we have seen in shops and elsewhere cannot be used to prove its ideal character ${ }^{1}$ The answer to this is: whence comes this notion

[^46]
# of sulver as existing ' within the mind ', seeing that (by your own confession) it has not been previously so experienced ${ }^{1}$ ? 

## (ii) Theory that the non-existent is the object of erroneous judgment-asatkhyāti

> " Others hold that (error is) cognition (which) has the non-existent for its object ${ }^{2}$ '. The passage in

[^47]The question remams whother all inference really can be reduced to syllogism. The question which Vaccaspatı asks-whence do we get the notion that false objects are only ideas '?-is s very pertinent question. But, some how or other, we do get this notion It masy be s wrong notion But it is a very convenient way of dısposing of 'false objocts', to relegate them to the linnbo of mere ideality. And, in the absence of any other explanation of error, the implication or presumption (arthapatti) that 'silver' (ernoneously predicated of what is really nacre) is ' only sn ides, will be the hypothesis which holds the field If however, with the mimdriagke, we cen maintan that there are no ' false objects ', we shall be sble to dispense with any neces anty for ' 1 deas.
${ }^{2} N^{2}$ PT 64 1. 1-anye 'sadvigayah fiñnam, Kerth ILA p. 49 'the nihust doctrine of the Madhyamikas, according to which sll apprehension is of the pon-existent (asatkhyāti), snd is itself non-existence ${ }^{\circ}$ As a mattar of fact the Madhyamska refused to make so definite an asserition as that of the non-exustence of all things. Hie favourte formula $n$, fhest of
which Vācaspati Mı́sra states this theory is as follows'. "Let us then follow the lead of the sublating judgment (i.e. the judgment ' after all this is not silver '), and say that erroneous apprehension has the characteristic of manifesting the non-existent. For the sublating judgment grasps the non-existence of the object of the thought ' silver' (rajatajñã̃nagocarasyāsattvam g̣hnạati). Nor is there any difficulty in a non-existent's being the object of cognition for to be an object of cognition does not involve being a cause of cognition,-if it did, of course the non-existent could not be an object (since it cannot be a cause, of cognition or of anything else). But there is in knowledge a certain overflow or excess of efficacy, dependent on no other causes (svakäranädhīnah sămarthyātisayah), of such a nature that in virtue of it

[^48]knowledge can make the non-existent, as well as the existent, its object (yena santam ivdsantam api gocarayati). Efficacy of the object is not required, since we can explain objectıvity ${ }^{1}$ from the bare efficacy of the cognition (na ca vişayasāmarthyam upayujyate, jñānasya sāmarthyamäträd eva tadbhävasiddheh). For just this reason (i.e. because objectivity is possible without an ' object ' in the sense of a cause of the cognition), one school have asserted this very efficacy of manifesting non-existence, which belongs to erroneous cognition, to constitute the 'nescience'-nature (aridyātva) or 'inexpressiblity' (anirvacantyatva) of cognition ${ }^{2 \times}$.

Vācaspati now ${ }^{3}$ proceeds to criticise the asatkhyäti. the theory that error has the non-existent for its object, from the standpoint of the Nyaya.
"What is meant by saying that the object of error is the non-existent? Is it meant that the erroneous judgment grasps the non-existent as exnstent (asat sadātmanā grhṇätī, i.e. grasps non-existent silver as ex-

[^49]isting); or is it meant that it is the existent that is grasped as another existent (sad eva sadantarātmanā grhnäti, i.e. existent nacre 18 grasped as silver), and that the object 18 called ' non-existent ' because the existent thing (nacre) does not exist as something else ${ }^{1}$ (silver)? The former alternative must be rejected, because the man who wants silver does as a matter of fact direct his activities on the nacre, and not on ' non-silver',-and he could not do this if his erroneous notion had as its object ' what is non-existent as silver', instead of having the existent nacre as its object. Besides, how is it that we point with the finger at this actually present substance and say (when the sublating cognition has arisen) 'this is not silver', unless it was to this (tatra) that the nature of silver had been wrongly assigned through the previous judgment? Then it must be the nacre, under the form of silver-in which form the nacre does not exist-that is the object of the erroneous cogntion - and the cognition is said 'to have the non-existent for its object' only in this sense that the (existent) nacre does not exist as silver'. With this our own view is in agreement: for of course the Naiyäyikas who hold the anyathäkhyäti view of error (i.e. that the object of error 1 the existent appearing as other than what it is), do not hold that one existent thing exists as another existent (sadantarātmana sad abhyupagacchanti). Such an admission would destroy the whole theory that the existent is cognised ' otherwise ' than as it exists (anydthety eva na syät). The upholders of the anyathïkhyãti view have themselves said": "what is apprehended otherwise (than as it

[^50]is), is cognition without objective ground, cognition with non-existence for its object ''. At this point ${ }^{2}$ Văcaspati commences criticism of the Vedäntin view of anirvacanīyakhyăti, viz., that the object of erroneous cognition neither is nor is not.
(iii) Criticism of the theory that the object of erroneous cognition is 'inexpressible', whether as existent or as non-existent. Anirvacanīyakhyāti.
Väcaspati's criticism of this theory is as follows:-
" Nor can it be said that no account can be given(anirvacaniyatva) of the actually present substance in its character as 'silver ',-seeing that at the time of the erroneous judgment it is designable (nirvacanīyatvãt) as existent, and at the time of the sublating judgment it is designable as non-existent. (i.e.)-It is not true that nothing can be said (prathā nopapadyate) of a non-existent of this kind : since the terms 'existent' and ' non-existent ' are applicable to it (sadasadbhyäm upākhyeyat$v \bar{a} t)$. And as for the 'phenomenal existence' (prapañca) of the absolutist (advaitavädınām), and the Bauddha's view that the universal and so on is nothing external, but a mere non-entity, and as to the doctrinethat erroneous cognition is cognition which has this phenomenal existence for its object ${ }^{3}$,-such a view is impossible - because that to which no term is applicable (sarvopäkhyarahitasya) can be like nothing whatever, and

[^51]error (as has been previously argued) has as the condition of its possibility likeness to something : and in the absence of the condition which makes a thing possible it is easy to see that the thing itself (i.e. error) cannot exist. Therefore the world of phenomena (which the Vedäntin regards as illusory) and the universal and other categories (which the Bauddha rejects as unreal) are in fact both real existences-they are not false (asamicina), and objects of ' nescience '.. . and therefore also the theory that the object of error is ' inexpressible ' is not the true account."

At this point NVT, p. 55, 1. 13) Vācaspatı gives an account of the critıcisms brought against the Nanyäyika's theory of anyathākhyäti,-that is, the theory that the object of error is an existent cognised 'otherwise' than as it is. This criticism is used to introduce the Mïmämsaka theory of akhyāt $\imath$; and it may therefore be supposed to be a criticism of the Naiyäyika from the Mïmämsaka standpoint primarily
(iv) The Mīmämsaka theory of akhyătt,-error as non-apprehension
A. Criticism of the Naiyāyika view.
" It may be (that the Vedānten's theory of the inexpressibility of the object of error is open to the objections urged by the Navyāyika above. But the Naiyäyika view is no less objectionable, for the following reasons). That the object appears otherwise than as it is, contradicts our consciousness (samvidviruddha) ${ }^{1}$. And error certanly cannot have for 1 ts objects things simply as existent (sadbhātamätrenālambanatvam) If simple existence (tanmätra, i.e. sadbhāvamātra) were the

[^52]common object of all cognitions, then all things would be objects of every thought, and the result would be that each cognition would cognise everything (sarvasarvajnatoapatti). Nor can it be said that what the cognition has as its object is the existent in so far as it is the cause of the particular cognition (käranatvenälambanatvam). For the eye also, no less than the colour, is a cause of the cognition,-so that it would follow that the cognition (of colour) has the eye as its object ${ }^{1}$. And cognition could not have past and future things for its objects (-as it has-), seeing that past and future things, as no longer or not yet existing, could not be causes of present cognitions. Therefore the ground or object of cognition is the phenomenon, the thing as it appears (tasmāt pratibhäsamānam älambanam). And, this beıng so, you would have to say that the presentation of silver has nacre for its object (rajatapratibhāsah suktikälambanam $i t i)$-a position which it will be difficult to maintain !

Besides, the competency or efficacy (sämarthya) of the eye and other sense-organs is for the production of right cognition: how should false cognitons arise through them ${ }^{2}$ ? Syämaka-seed, however it be treated, will not produce rice-plants. You may suggest that the eyes and the other sense-organs may give rise to erroneous cognitions when accompanied by defects (doṣasahäya). But this will not do. For defects impede the competency of causes, but they do not impose the competency of producing a different. effect. Kutajagrain, when parched, will not produce a banyan: it will merely fall to produce a kuttaja. Besides, if the

[^53]senses ever err in respect of their own objects, the result will be that we shall lose faith in them everywhere."

At this point ${ }^{1}$ commences the account of the Mïmämsaka theory of akhyãti, i.e. the theory that error is inadvertence, a negative thing consisting in a failure to note.
B. Statement of the Mīmämsaka view.
" Therefore all cogntion must be held to be correct cognition (sarvam era vijuănam samīcīnam). The meaning of this is as follows:-In the judgment 'this is silver' there are two cognitions, ' this ' and 'silver', the former a primary experience (anubhava) ${ }^{2}$ and the latter a memory. The 'this' is apprehension of barely an actually present substance (purovarttidravyamätragrahaṇa) : because, as the result of a defect (do $\underset{a v a s \bar{a} t \text { ) or impediment to apprehension, }}{\text { a }}$ there is a failure to apprehend the specific unversal (sämänyaviseşa) ' being nacre ', which is resident in it (tadgatasuktikātva).

And, since this much only is apprehended, it generates through resemblance, by serial rousing of the 'mental impressions ' (samskārodbodhakramena), a memory of silver. And this memory, although essentially an apprehension of the previously apprehended (grhittagrahana $a=\mathrm{a}$ secondary experience), presents itself simply as apprehension (grahanamätra, as opposed to grhïtagrahana, =a primary experience); because the aspect of
${ }^{1}$ NVT p 55196
${ }^{2}$ Dr. Gaig ${ }^{1}$ naltha Jha notices the dfficulty of rendering anubhaea, sterm which covers all experience other than memory As it is contrasted with memory on the gronnd of the ascondary character of the latter as the recall of a previons experience, ' primary experience' may serve as a rendering for anubhava. Dr Jha transistes 'direct apprehension',-with the warning that 'direct' here does not mean immediacy.
 ordmate universsl ( (being something specific' eg 'being substance ', 'bemg earth' etc.) from the summum gonus 'being' (sattasdmanya, or sumply sdmanya) There was a certain amount of oonfusion in the naage of the term tidmenya-see Ui's Vatienika Philocophy, pp 85-87, 67, 70, 175, 180.
referring to the previously apprehended (grhîtataimśa) has been filched from the experience, in consequence of some 'defect' (which prevents us from noticing that it is really a memory, and not a primary experience; of ' silver '). And so, as a result of not apprehending the difference (bhedagrahapa) in respect of nature and 'of object between the memory of silver and the primary apprehension of the actually present thing, the two cog. nitions,- ' silver ' (remembered) and ' this ' (perceived), -although separate cognitions, nevertheless, through resemblance to the case of cognition which has as its object sulver in actual contact with sense, set going the, judgment of identity ${ }^{1}$ and the reference to a commen locus' which is expressed in the proposition 'this is silver '.

Sometimes, again, it is two primary experiences of which the separateness is not grasped. Thus when the conch is perceived as yellow, what happens is that the yellowness of the bile-substance residing in the emergent eye-beam is grasped (just as colour may be apprehended in a transparent crystal) ${ }^{3}$ while the bile itself is not grasped : and the conch also, owing to a defect in the perception, is percerved barely as such (svarüpamätrenda) without its qualities. Thus, as the result of failure to notice the absence of connection between this sulject (the conch-which is really white) and this attribate (the yellowness-which really belongs to the bile), and because

[^54]af a resemblance constituted by its being indistinguishable from the cognition of the yellow errabilva tree, a judgment of identity and an assertion of community of locus takes plase (i.e. we say that the conch is yellow '). And, as a result of the disappearance of the judgment of identity-the judgment which followed on failure to apprehend the separateness of the two cognitions ' conch ' and ' yellow ',-that judgment can be sublated by a discriminating cognition (vivekapratyaya) in the form ' this is not silver ' : and, this being possible, a place is found for the commonly accepted notion of the erroneousness of (some) cognitions. Thus we arrive at the position which may be stated syllogistically in the form: ' Even erroneous cognitions are true to reality (yathärtha), because they are cognitions,-like the cognition of a piece of cloth' ${ }^{1}$ '".
C. Naiyäyika criticism of the akhyätı theory

Having stated the Mïmämisaka theory, Vācaspati now ${ }^{2}$ proceeds to the criticism of it.
" On the position thus taken up the following observations may be made. Every one agrees that the man who wants silver acts on the actually present object when the erroneous cognition of silver arises, and that he refers the 'this' and the 'silver' to a common locus. The question is whether he does this as a result of not apprehending the difference between the primary experience and the memory, and between their respective objects (' this' and ' silver ') • or as a result of apprehending non-difference ${ }^{3}$ between them.

As to this,-an intelligent being does not act on absence of knowledge, ' non-apprehension'; but on

[^55]knowledge. You may reply that what sets the man, who wants silver, to act on the actually present substance is knowledge or apprehension-apprehension, to wit, of the actually present thing'; the distinction of this apprehension from the cognition of silver in respect of nature and object not having been apprehended. But what do you mean by this? Is this ' apprehension of the actually present thing' an apprehension of silver? or is it apprehension barely of an actually present object as such? If it is apprehension of silver, then the man has apprehended the actually present object as silver,-and how is this not ' apprehending a thing otherwise than as it is'? (i.e. your view becomes identical with the Naiyäika view). If on the other hand it is apprehension of the actually present thing that sets a man to act, then why should it need the assistance of a ' non-apprehension of separateness' (ko bhedägrahasyopayogah̆)? You may answer " The sight of a tree simply as such does not set acting the man who wants a $\sin \dot{n} s a p \bar{a}$-tree, because in that case there is no cognition of a sim $\dot{s} a p \bar{a}$. but in this case there is cognition of silver-the separateness of which is not apprehended-through the cognition 'this ' ${ }^{\prime}$ ''. But unless the silver is cognised $i n$ the actually present substance, or the actually present thing is cognised in the silver ${ }^{3}$, the person who wants silver does not act there, that is, on the actually present thing. He might act anywhere whatever, instead of acting on this: for it is not then through this (the actually present thing) that silver is cognised But, you will say, it is the two separate cognitions, 'this' and 'silver ', taking on the

[^56]semblance of the single cognition ' this is silver ' because their separateness is not apprehended, that set the appropriate activity to work. If so, why do not the two cognitions also initiate a process of thought which would reveal their ceparateness-' this is silver', 'that is nacre'? For if as a re:ult of non-apprehension of separateness there arises likeness to the apprehension of non-separateness, then equally as the result of non-apprehension of non-separateness there will arise likeness to the apprehension of separate things ${ }^{1}$. (That is to say, simple failure of apprehension includes non-apprehension of unity of ' this 'and ' silver', as well as non-apprehension of difference of 'this' and 'silver' : and if nonapprehension of difference amounts to a cognition of unity, 'this is silver', then non-apprehension of difference will amount to a cognition of difference, - this is not salver-that is silver, but this is nacre '). And so the knowing subject has been placed in a very unfortunate position by these acute thinkers with their ultra-minute analysis ${ }^{2}$ for he is drawn both ways at once-in the direction of action and in the direction of refraining from action-owing to the semblance both of apprehension of difference and of apprehension of identity (between 'this' and 'silver', i.e. he will have simultaneously the notion that it is silver, and the notion that it is not silver).

Be it so (retorts the Mimämsaka). But you will have to assign a function to the subject's ' non-apprehension of difference ' even in the origination of your socalled viparyayajñäna or 'erroneous cognition' : otherwise

[^57]it would come about that erroneous cognition might arise in the case of persons who had spprehended the difference (which is absurd), And so it can be said in your case too ' why should not true cognition arise from the other aspect of the non-apprehension, viz., from nanapprehension of sameness between this and silper, just exactly as erroneous cognition results from the one aspect of the non-apprehension, viz., from non-apprehersion of difference between this and silver?' So that the argment which you use to confute our account of the process ${ }^{1}$ will serve us to confute yours.

As the upholders of the theory of error as non-apprehension (akkyātivādinah) have said: 'For those also who hold the theory of error as contrary cognition (viparitakhyäti=anyathākhyāti) error is dependent on the influence of non-apprehension ${ }^{2}$.

Not so (answers the Naiyäyika). We have experience, in the case of the eyes and other sense-organs, of causes of cognition the relation of which to their effects (colour, in the case of sight) is not apprehended: but we cannot conceive of conscious judgments which are not conditioned by apprehension ${ }^{3}$. Now where thought is a condition precedent of a cognition, there is no room for your ' non-apprehension of difference'. This seems to us the correct view. If the fact that we also fail to apprehend the absence of difference is an impediment to the judgment (' this is silver '-a juigment based, as you

[^58]Mimamsakas suppose, on failure to apprehend the difference between 'this ' and 'silver '),-then whence comes $\boldsymbol{z}$ judgment which is as a matter of fact confined to one of the two alternatives (i.e. which categorically asserts that " this is silver', or that ' this is not silver ')? The cortclusion then is that the so-called "non-apprehension of difference' is simply the illusory attribution of a predicate to a subject (samäropa eva bhedägraha iti siddham).
(c) Formal statement of the Naiyāyıka's anyathäkhyäti theory of error, and reply to certain criticisms.
" The outcome of the discussion is this. The cognition of 'silver' and so forth has the actually present thing for its object; because it determines the man who wants silver to act on just this thing (tatra niyamena pravartakatvät); and any cognition which determines the knower's activity to any particular thing has that thing as its object,-as in the example (accepted as such by both parties to the discussion) of a true cognition of silver; and this (erroneous cognition of slver) does so (i.e. directs activity on the actually present substance) ${ }^{1}$; therefore it 18 so (tasmat tath $\bar{a}$, i.e. it has the actually present nacre as its object).

As to the criticism that the nacre as such is not sensibly present and therefore cannot be the object of the erroneous cognition of 'silver' (anavabhäsamänä suktika nä̈lambanam itt $)$,-do you mean that being nacre

[^59](suktikätva) is not the object of the cognition of "silver'? If you mean this you are only proving something which is already admitted (siddhasadhana). Or do you mean that the actually present shining white substance as such is not the object of the cognition? If you mean this, it is not true that this is not sensibly present ${ }^{1}$ : for we point with the finger at the actually present thing, the 'this *. Another objection which was made depended on the assertion that ' defects impede the competency of causes, but they do not impose the competency of producing a different effect. ${ }^{2}$ ' But experience shows cases of the production, by causes which have been impaired, of new effects, through counter-action of the natural effects. For instance, the seed of canes burnt in a forest-fire produce banana shoots - and the digestive powers impaired or affected by 'bhasmaka' or morbid appetite can deal with increased quantities of food and drink ${ }^{3}$.

And the inference to the effect that ' erroneous $\operatorname{cog}^{4}$ artions are true to reality, because they are cognitions, ${ }^{4}$ ought not to be put at all, seeing that it is invalidated (apahrtavişaya, i.e. bädhita) by a sublating cognition based on perception, viz., in the judgment ' this is not silver ' (which proves the original cognition of silver not to have been true to reality).

[^60]4. : : And (finally), in spite of the fact that the semblanoes af proaf ${ }^{1}$ go astray, we still place reliance on proof itwelf. This is what is indicated in the 'sentence " embodied in the Bhasya which states that praction melaievement of objects depends ' on the grasping of the object as the result of (and through) ${ }^{3}$ proofs or instrumente of valid cognition,'

[^61]
## CHAPTER II

## PERCEPTION

## Indryyarthasamnekarsotpannam jnanam avyapadesyam avyabhicart vyavasayatmakam pratyaksam

Is the object in perception real?-Can perception be erroneous? (first part of the oftikaras argument and the epithet avyabhscart in the Nyays sutra definition) -The argument from dreams againat the reality of perceptual objecta (second part of the vrttiktiras argument) - I he daslectic of whole and part (Nyayasutra IV 1 4-87) Doos the object diasolve under analysis?-Is thought dintinguishable trom the object of thought? (thard part of the orttskara a argument and the epithet aoyapadefya in the Nyayasutra definstion) -Can perception be doubtful? (the epithet vyavasayatmaka in the Nyayasutra definition) -The nature of the contect in perception (indryarthasamnskersa of the Nyaya sutra definition) -The two moments of perception and the modes of contact (Pradestapida a doctrine) - Eimple apprehension and the per ceptual judgment-nirvikalpakajnana (Sndhars a polemic egainat Dif naga a account of perception) Ksanabhangavadd - The nanergal as resi-Recollection Attention and Associstion

## BECIION 1 REALITY OF TEF OBJECT IN PERCEPTION

Perception is the one instrument of knowledge admitted by all schools alike ${ }^{1}$ The obvious conception of a contact between sense-organ and object (indruyā̀ thasamnikarsa) was the starting point for tte development of the doctrine and appears in the

[^62]Nyāya, Vaiseşika and Mīmämsa sūtras ${ }^{2}$. But the ambiguous character of the 'object' suggested doubts as to its reality at a very early period: so that the defence of the validity of perception assumes at a very early stage the form of a 'refutation of idealism'. An early statement ${ }^{2}$, of this refutation is fortunately


#### Abstract

${ }^{1}$ NS I 14 indriyarthasamnikarspotpannaw minnam avyapadetyam spy\&bhicalrs oyapasēyatmakam pratyakqam. " Perception is knowledge arising from contact of organ with object : it in independent of verbal expression, unerring, and has the form of conviction " VS III 18 atmendryărtha. sathnskarpa, and III, n. 1 which adds manas as a tourth factor in the contact which is the condition of oggoition. Prabsstapida'e catustaya, or four factort in the contact which is the condition of some kinds of perception, seams to derive from these satra's (There is no formal definition of perception is the VS The fourfold contact of soul, sense-orgen, intarnal orgsn, and object 1a and to condition ploasure and pain in VS V. in. 15 atmendriyamanorthasamnikaredt sukhaduhkham That is why, as Uddyotakara explams, the word $j^{n}$ anam, cognition, is mserted in the NS definition of perception). There are several passages in VS which refer to perception, and Pragastapiads's account of it is pertly derived from these. A lipt of these passagea 18 given by Faddegon, p 284, with Nand Lal Sinha's translation.

The reference in the Mimähsal Sütra is I 1 4.satsamprayoge puru fasyendryadyam buddhijanma tat pratyekpam, ansmittam vidyamdnopalambhanatodt. "Parception 18 the arisang of knowledge when a man's senses are in contact with resility. It is not a means (of knowing duty) as it spprehends what now ${ }^{18}$ ". Dddyotakars (NV p. 45 l .10 ) quotes the first part of thes saltra ind notes that the Mimansaka commentators themselves would agree with his criticism of it as an insdequate definition, Their position, in fact, is that it is not a definition, although the 'optitkara, attempted to treat it as such even emending the fext of the sitica to suit hia interpretation.


[It is worth noting thist Asbars in him comment here uses langasge which suggeats that he had the definition of the Nyaya Sutra in mund: e.g he substitutes the term samnskarga for the samprayoge of the sitita: and his tatplurcakatod ( $=$ dependence of inference on that, 1 e , on perception) seems me echo of the word tatpirvakam in NS I 18 ]
'Gamkars's classical refutation of idealism in tha commentary no Yodsinta Siltra H, 15. 28-32, us least four centoriea later. Jacobi has argued in an articio on the Date of the Philosophical Sitras (JAOS xxxi 1911) that; the aarly padages in 'the satras and in Sabara's'Bhdyya and the NyEyabhtifya which wppeg to refute idealism are not resily rafutations, of, idealism (vijadiapada) but of nhhilism (fanydoada) : and that Kumbrila is wrong in intarpatiting hatio iof the' plazent pesasge in Babars as durected aggingt the nuralambanavāda (io. vifuanavdda), the truth being that the whole is durected crgainst the sanyavada.- Jasobi's argoment appears to be justiffed as againat Sichorbatikyis when that these passages in the earliar siltras and 'bhapyas have in tow thp: owhinapaddatar idealias doctrine as, prompigated by, Ananga and Veaubendhu, and ace therolore relsturely teto. But it seems olear that, though
 inm of the vijinasedda (which was in fact a watering, down of the pure goapel of nihilism), yet the doctrine that ideas have no objects beyond themselves wad, or became, a moment in the nihilist dialectic, lagneally prior to complete
preserved in Sabara's Bhāşya on ${ }^{1}$ the Mïmämsa. S'ütra, and forms a convenient preface to the dectrine: of perception.

The ' $v r t t i k a ̄ r a$ 's' refutation, embodied in Sabara, falls into three parts each of which meets a distinct difficulty : and the first and third parts deal with the two difficulties which, according to Vātsyāyana's interpretation, led to the insertion into the Nyäya. Sutra definition of the two words avyabhicāri and avyapadesyam ${ }^{2}$. The second part meets the 'idealistic, argument from dreams which is dealt withr in a later section of the Nyäyasütra in the course of a polemic against Buddhist views ${ }^{3}$. The three difficulties are (1) the existence of erroneous 'perceptions' side by side 'with true perceptions; (2) the existence in dreams of 'perceptions' which admittedly have no basis (nirālambana) in en external object present to sense, and (3) the impossibility of characterising (vyapadis-) cognitions without reference to the objects cognised, so that thought without things

[^63]seems empty, void, or nothing (sünya) ${ }^{1}$. And, as things have already been shown to be unreal, the paradoxical conclusion emerges that everything is void-and-nothing (sünyavāda).

## A. FIRST DIFFICULTY

greṭion 2. PERCEPTION AND ERROR
The argument in Sabars is as follows:-The opponent says that the means of cognition need examination, because they sometimes err (vyabhrcärāt pariksitavyam). "For inasmuch as mother of pearl has the look of silver, thereby perception errs; and inference and the other means of cognition err because they are based on perception." It is replied: "This is not so. That which is really perception does not err; and what errs is not perception". The opponent asks for a definition of perception so understood, and the vrtikära answers with an amended version of the sūtra:--tatsamprayoge purusasyendriyặām buddhijañen a sat pratynksam--" When a man's sense-organs are in contact with that, the arising of cognition is

[^64]true perception'". In other words, perception, properly so called, is cognition which has as its object the very thing with which the sense-organs is in contact (yadrişayakam jnānam, tenaiva samprayoge ${ }^{1}$ ). The opponent asks: "How is it known that in the one case (i.e. that of real perception) the organ is in contact with an object which is the object-as-cagnised, while in the other case (that of error) it is in contact with something other than the object-as-cognised? A man who apprehends silver where there is actually mother of pearl thinks that his visual organ is in contact with silver". The reply is that it is known when a conflicting cognition arises, so that the man says to himself 'this was a mistaken cognition and arose when the organ was actually in contact with something different.'-Yes, but how could it be known before the conflicting cognition arose? since at that time there was nothing to distinguish a true perception from an erroneous apprehension.-It is answered that false cognition arises when either the organ is affected by obscurities or the object by impediments to perception such as minuteness. Contact of organ and object is the cause of (true) perception, while defects affecting either factor (organ or object) are the cause of false apprehension.-Yes. but kow is it known that defects are or are not present? The answer is: 'If after lonking for defects carefully we do not find them we accept the exnerience as not impaired by defects: because there is no proof that it is so impaired"'.

[^65]Vātsyăyana, commenting on the word avyabhicäri in the definition of perception given in the Nyäya Sutra ${ }^{1}$ answers. the arme abjection to the validity of perception in the same way ${ }^{2}$.
" In the summer the sun's rays commingle with earth-warmth and become tremulous. These coming in contact with the visual organ of a person at a distance, ${ }^{3}$ the cogntion of water arises from contact of organ and object. And (as it 'arises from contact of organ and object') it would turn out to be perception" (and so perception, which is supposed to be a pramāna, an instrument of prama or truth, is an instrument of error).
" It is with reference to this possible objection that the word avyabhicäri is introduced into the definition. Cognition of 'that' in what is not that (atasmims tat) is characterised as vyabhicāri: while cognition of 'that' in what is that is avyabhicäri, non-erroneous. Perception is non-erroneous cognition ${ }^{4 \prime}$.

The first phase of the discussion of error in perception may be regarded as ending with the hmitation of the name perception to true cognitions of sense. But obviously the difficulty can recur in an aquter form as soon as anaylsis reveals the distinction between the 'bare impression of sense' and 'fictions

[^66]of imagination' : for the application of the formula tasmin tad iti jnanam-'knowing that as that'-is seen to be less simple than it looked at first when the 'ideal element' in perception is insisted on. The discussion then passes into another phase: a phase which may be said to crystallise in the term kalpanapodha, "stripped of ideas," by which Dinnāga describes pure perception.

## B SECOND DIFFICULTY

stetion 3. perception and dreams (idealibt argument)
The second part of Sabara's argument ${ }^{1}$ is the part to which the appellation of a refutation of idealism may most appropriately be given, the analogy between perception and the baseless fabric of our dreams being in the characteristic vein of idealism.

The objector argues: " All ideas are without external objects, like dreams (sarva eva nirālamban$\bar{a} h$ svapnavat pratyayäh). An idea has no ground in external objects : reality (svabhāva) is falsely attributed to a dream; and the waking person's apprehension of 'a post' or 'a wall,' too, is no more than an idea (pratyaya eva); and therefore it, too, is not grounded in any external object (tasmăt so ' $p i$ nirālambanah)".

It may be said in reply:-The waking man's apprehension of a post was perfectly certain (supariniscita) : how shall it prove false?-But the apprehension in the dream was perfectly certain in exactly the

[^67]same way: prior to waking there was no difference in this respeat.-But there is a difference, for dreams are found to be erroneous, while error is not found in the waking cognition.

The opponent retorts that his point is that error will be found in waking cognition, seeing that the waking cognition resembles dream-cognition (tatsamannyat ). If the dream-cognition is false because it is an idea (pratyayatndt), the same must be true of waking-ideas. The mere fact of having an idea is anough to establish falsity, -and it is impossible to say that waking-cognition is other than an idea ${ }^{1}$.

The answer to this is that the falsity of dreamcognitions is known from something else than from their being ideas, namely from their conflicting character. And if it be asked 'whence comes this conflicting character?' the answer is that it comes from the impaired efficacy of the internal organ in sleep. Sleepiness is the cause of the erroneous character of dream-ideas. Therefore a waking person's ideas are not erroneous (since then the internal organ is not thus impaired).

To the objection that when a person is awake, too, there may be defects in the instruments of cognition which cause falsity of ideas, the answer is that if there were such defects they would be known.-As for the objection that at the time of having the dream-ideas the impairment of the internal organ is not realised, though present, the answer is that on waking the person realises that his internal organ was overcome with sleep.

[^68]
## SECTION 4. DIALECTIC OF WHOLE AND PART

The treatment of the dream-argument in the Nyāya is confined to four sūtras (NS IV. ii. 31-34) and forms a small part only of the general polemic directed against the Buddhist denial of reality (NS IV. ii. 4-37). The general purport of the sceptical dialectic which this passage as a whole meets is perhaps best described in a couplet ${ }^{1}$ found in the Lañkävatāra Sūtra-
buddhyā vivicyamānänäm svabhăvo nävadhäryate ato nirabhvlapyās te nihsvabhāvās ca darsita $h^{2}$.

[^69]" When things are analysed by the mind no reality is found in them. Therefore they are said to be 'inexpressible' and 'without reality'." When we start to analyse the supposed external object in the hope of finding what it really is in itself-its svabhäva or essence-we find that it disappears under analysis. First we try to think of the thing as a composite Whole (avayavin, a possessor of parts) : and the Nyāya Sütra has maintained in a previous passage (II.i. 33 seq.) that the whole is something more than the parts, principally on the ground that otherwise perception would altogether be impossible-component parts being ultimately atoms, which are imperceptible; and that it is impossible to srrive at a perceptible by summing up imperceptıbles ${ }^{1}$ In the present passage (IV.ii.4-17) the Bauddha arguments against the reality of the whole are first reviewed. If the parts reside in the whole do they reside in the whole of the whole or in parts of the whole? The former alternative is absurd, the latter amounts to saying that the parts reside in themselves, i e. not in the whole And if the whole resides in the parts ${ }^{2}$, does it reside as a

[^70]whole in each part, or by parts in the parts? The former alternative is absurd, the latter destroys the wholeness of the whole.-The question is not a possible one (aprasna) answers the Natyäyika: for it is absurd to introduce into the whole itself the distinction between whole and parts which is involved in asking whether the parts reside in the whole of the whole, and whether the whole resides as a whole in the parts.-As to the argument which the Naiyāyika has used to establish the reality of wholes, viz., that otherwise perception would be impossible, the opponent suggests that the supposed perception of the whole is really the confused perception of the parts, as in the perception of hair (when the separate hairs are not distinctly seen). The answer is that distinctness and indistinctness of perception are always relative to the perceptible: and the notion of indistinct perception of the imperceptible atoms is absurd ${ }^{1}$. So that perception would be impossible unless the whole were something more than a cloud of atoms. But the opponent's dialectic is based upon an

[^71]appeal to the very perceptual experience which it would thus render impossible : and so it is suicidal.

In the next section the opponent proceeds to attack the reality of the concept of parts.

The dialectical difficulties about part and whole would continue up to a total disappearance of the supposed object ${ }^{1}$. You may try to avoid this consequence by asserting the reality of the minute (anu), or of that which is beyond division-the " atom '". But in fact you cannot avoid thinking of the atom as having parts : in the first place because it must be thought of as split into fragments or permeated by the 'ether' which you call all-pervading, but which would not be all-pervading if it were not whthin as well as without the atoms.-To this point the reply of the Nyäya Sūtra appears to be that this vyatibheda or permeation is in fact a notion only applicable to things which have constituent parts (käryadravya), because 'within' and ' without' imply further parts (karanäntara) ${ }^{3}$. The all-pervadingness of ether is attribated to it on other grounds ${ }^{8}$ than on the absurd supposition of its pervading the atom The opponent says, in the second place, that the atom must be thought

[^72]"Stated in the next two alitras 91-28.
of as having parts because figure or shape ${ }^{1}$ implies an arrangement, which again implies parts to be arranged : and further because an atom is thought of as being in contact with other atoms-which means that the atom on one side is in contact with one part of it, and the atom on snother side is in contact with another part of it.-To this very awkward difficulty the Nyäya Sütra finds no specific reply, and contents itself with re-assertion of the impossiblity of infinite division.

The opponent then retorts-if there really were external objects, it would be true that infinte divisibility would be impossible. But our whole point is that thought, on which you rely as having these external things for its objects, is in fact illusory". "As a result of analysis

[^73]by thought we fail to apprehend any reality in the supposed existents: we find reality in them no more than we find reality in the cloth when the threads are taken away' (IV-ii-26) ${ }^{1}$. When we analyse the cloth into this that and the other thread there is nothing left to be the object of the conception 'cloth ': and everything alike dissolves in this way on analysis.-The reply given 18 that the reasoning of the opponent is self-contradictory and therefore false (vyāhatatväd ahetuh IV-ii-27); which Vätsyäyana explains to mean that the 'analysis by thought' spoken of by the opponent implies that there is something to analyse after all ${ }^{3}$.

Of course the whole cannot be apprehended apart from the parts-the cloth cannot be apprehended apart from the threads-for the simple reason that the whole is grounded in the parts (tadāsrayatvāt-28). -The opponent's reasoning is further self-contradictory because in asserting the unreality of everything it denies the exıstence not only of the objects of knowledge (prameya) but also of the instruments of knowledge (pramāna) ${ }^{3}$. But

[^74]${ }^{2}$ The scopical position 2 s slways suicidal, so that it can always be
met by the argumentum ad homunem.
"The argument hare moves to a new phase, with the reslisation that
the sceptio is deatroying not only the objects of knowledge but knowledge itself
And it neems to be in this connection-in support of the deminal of the reality
or the mastrumente of knowledge, the pramanas,-that the anslogy of dreams
was first employed. For dreams are not only without real objects, but also
without any logic or criterion of reality Therefore what I have called the
ideshistac moment in the sceptic's argument was not originslly employed to
prove the nareelity of the external world (the idealust's position)-that had
slready been done by the dialectio of part and whole-but to round off the
it is by these instruments of knowledge that we establish either that (as we hold) analysis reveals the reality of objects or that (as the opponent argues) it fails to reveal any reality (sutra 29). If the sceptic's position that nothing exists can be proved, then proof at least exists : if it can not be proved, and is.a mere assertion without any proof,-then why should we not assert without proof the contrary proposition that 'everything exists' ${ }^{\prime}$ ? (pramänänutpatty-utpattibhyām IV-ii-30. " By both alternatives-impossibility of proofs or possibility of proofs '"-the opponent's position 18 contradicted).

It is not until the argument has reached this stage that the sceptic unmasks his real position, which is that there is in fact no such thing as proof,-the whole conceit of proof and things to be proved is like a dream and a mirage'. The Nyäya Sūtra (33) says that 'this is not established, because there is no reason to prove it : which Vātsyāyana interprets to mean that the unreality of dreams can only be known by contrast with the reality of things apprehended in the waking state. If you argue

[^75]that dream-objects are unreal because they are not perceived when a man wakes, you must also admit that waking objects are real because they are perceived when the man is awake : for reality or existence is the criterion of unreality or non-existence (bhävenäbhävah samarthy$a t e)^{1}$.

The other objection urged in the Nyăya Sūtra against the dream-argument is that " the concert of an object in dreams is like (the objects of) remembrance and desire." Vātsyāyana explains that as the object of remembrance and desire is something previously experienced, so is the object in dreams. We do not argue that the objects of memory and desire have no basis in reality, merely on this ground. neither ought we to do so in the case of dreams For they have a basis in reality. And it is only with reference to the real basis or originals of dreams (ăsraya, pradhäna) that the waking man pronounces his dreams unreal.

Comparing the treatment of the dream-argument in Säbarabhāsya with its treatment in the Nyãyabhāsya it is clear that the idealistic aspect of that argument is prominent in Sabara-dreams are illusory because they are ideas (pratyayatoāt);-and that, for him, it has disengaged itself from the sünyavāda context in which it was undoubtedly first employed. Vātsyăyana, on the other hand (and of course the Nyāya Sūtra), nowhere suggests that ideas, as such, are their own objects, so to speak: and the dream-argument remans for him a mere adjunct of the main line of thought-viz., that analysis fails to find reality in the object. In the absence of the technical

[^76]terms of the vijiänavāda in Sabara's account, it would be wrong ${ }^{1}$ to suppose that Sabara is polemsing against the developed vijūänaväda. But this much may be said that he seems to be dealing with a type of sünyaväda which is different from that of Nāgārjuna i.e., from that type with which the Nyāyasūtra and Nyäyabhäsya deal : he seems to deal with a sūnyaväda which stresses the dream-argument in such a way as to bring out its idealistic implications and to make it fundamental.

## C. THIRD DIFFICULTY

section s. dibtinction between thought and object
The third part of the defence of perception in Sabara's Bhäsya, a translation of which is now given, attacks a view that ideas themselves are in some sense ' void '-empty, or nothing (sünya). In one sense it has already been shown that ideas are 'empty', seeing that it has been shown that ther supposed objects are non-existent. But the argument is now carred a step

[^77]further, with the assertion that the 'idea' cannot be distinguished from the ' object' of the idea ${ }^{1}$.

Why not say that it is the 'idea' that we perceive, in place of importing a superfluous ' object '?-Sabara replies ${ }^{2}$ that we can and must distinguish the 'object ' from the idea. Besides, ideas cannot be (as the Bauddha here suggests, and as the Naiyāyika maintains) perceived ${ }^{3}$.

And, thought being for the Bauddha a series of instantaneous Ideas, the supposed self-conscious (samivedya) nature of thought is as inconcervable as the Naiyāyika ' inner sense ' account of the perceptibilits of ideas. Knowledge is presupposed by objects, but is not the object of our perception : the object of perception being the 'object' (as opposed to the idea); and the existence of ideas being inferred thence The idea is designated by the name of the object ${ }^{4}$ of which it is the idea; and cannot be otherwise designated (avyapadeśya) : and this indesignableness proves that the idea as such is not perceived. (But it does not prove that the idea does not exist.) Sabaras says :-

[^78]" But the idea is void-nothing. How so? Because we do not find any difference of presentational form ( $\bar{a} k a ̈ r a$ ) between the thing and the cognition of it. It is our ides that is the object of perception (pratyakṣa ca nobuddhih), and so the supposed something in the shape of a 'thing' separate from the thought is nothing at all. -This would be so if the thought had the form of the thing : but our thought has no form (nrrākāra); while the external thing has form (äkāravat), since it is perceived as connected with external space. For perceptual cognition has the thing for 1ts object (arthavisayā hi pratyaksabuddah), and has not another thought for its object ( $n a$ buddhyantaravzsayā) $)^{1}$. For thought is momentary, instantaneous (ksanika) ${ }^{2}$, and will not endure through the time of another thought.-The view that thought is known just in its coming to birth, and that it makesknown something else, like a lamp, is wrong. For no one apprehends a thought where a thing is not apprehended. But when a thing is apprehended a man knows that there is thought, as the result of an inference. Sumultaneousness (of apprehension of the thing, and apprehension of the thought) is impossible in this matter. It may be objected that it is after the thought has arisen that we say 'the thing is known', and not when the thought has not (yet) arisen. Therefore the thought arises first, and afterwards the thing is known. To this we reply that it is true the thought arises first: but it is not known first. For it sometimes happens that even when a thing has been apprehended we say that we have not apprehended it (jnãto py arthah san 'ajnata' ity ucyate). Nor can we apprehend the precise character (ripa) of the thought without designating the thing (which is the object of the thought (na ca arthavyapadeśam antarena buddheh rūpopalambhanam). Therefore thought cannot

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## Perception

be designated (na vyapadeśyă buddhih) ${ }^{1}$; and what cannot be designated is not the object of perception ${ }^{2}$. Therefore thought is not the object of perception.
-Moreover, granted that in case the cognition and the object cognised were identical in form there would be no such thing as cognition, this would not establish the non-existence of the thing, which is the object of perception [arthasya pratyakṣasya satah na (sc. abhävah)]. And (as a matter of fact) the thought and the thing are not identical in form; for the thought, the existence of which we infer, is without shape or form (anäkäram eva) - while the thing, which we apprehend as the object of perceptıon (pratyaksam eväragacchämah) has shape or form (säkära). Therefore thought has the thing as its support, i.e. depends on things (arthālambanah pratyayah. Cf. just below-na nırälambanah pratyayah). Moreover the thought of a cloth has a cause restricted

[^80]to the case (i.e. only arises) when threads are present (niyatanimittah tantuṣvevopädìyamäneşu patapratyayah): if it were not so, the idea of a jar would sometimes occur, in the case of a man with senses unimparred, even when threads are present. But this does not happen. Therefore thought is not independent of things, i.e. it refers to external things (na niralambanah pratyayah). And therefore perception is not an erroneous process ( $n a$ vyabhicaratı pratyakşam).'

The passage in which Vātsyăyana explains the word avyapadesyam ${ }^{2}$ in NS I. i 4 is closely parallel to the third part of Sabara's argument.

What Vātsyāyana has in mind is that there is no way of naming cognitive states except through the names of their objects. How can we distinguish the perception of colour from the perception of taste, except by saying that the former is the apprehension of colour-'rupam iti $j a \bar{n}$ ite',-and that the latter is the apprehension of taste -'rasa iti jānīte'?

The words 'rūpa', 'rasa', denominate the object of the perceptions (vzsayanamadheya), and not the perceptions as such. And yet thereby (tena-visayanāmadheyena) the perceptions are in fact expressed (vyapadvsyate).

From this, which Vātsyāyana would accept as so far a correct statement, some appear to have drawn a further

[^81]conclusion which Vātsyāyana rejects, and which, as he thinks, the sütrakära intended to reject by the insertion of the word avyapadesyam in his definition of perception. This conclusion is stated in the words : nämadheyasabdena vyapadiśyamānam sat sābdam prasajyate-" the perception, being expressed by a word which is the name of the object, turns out to be an affair of words-verbal '".

The difficulty is to see just how this conclusion is justified by these premises: a dufficulty due to the fact that we do not know the precise nature of the doctrine which Vātsyăyana here criticises ${ }^{1}$.

In what sense can it be held that the perception is 'verbal' on the ground that you can only express it (vyapadis--) ${ }^{2}$ by using the word which is the name of the object perceived?
-The position seems intelligible. As expounded by Vātsyãyana, it starts out from the assertion that wherever there is a distinct thing, there is a distinct word for it-yãvad artham vai nāmadheyásabdāh-: and the implication of this is that if there is a supposedly distinct thing which has no distinct name, then it is not after all a distinct thing. Now cognition, as such, comes under this description, for it has no name other than the name of the object of which it is the cognition. Therefore it is nothing distinct from the object,-or, if it can be at all distinguished, then thoughts are just the names themselves as distinguished from the things. There are things : and there are names of things : but there is nothing else,-no third distinct entity 'cognition's.

Vātsyāyana replies that the distinct status of the apprehension as such is shown by the fact that there is apprehension of the object before the union of word and

[^82]thing has come into play (anupayukte sabdärthasamban$d h e)$ : and even after the naming has taken place the same remains true-the cogniton remains distinct from the names. This 18 what the sūtrakā ra asserts by the word avyapadesya,-i.e. distinct from names ${ }^{1}$. When it is necessary to speak of the cognitions as such-as it is for practical convenience (vyavahāra)-we can of course indicate what particular cognition we refer to : the 'inducation' (vyapadeśa) being made by the name of the object followed (in Sanskrit) by the particle iti. The idea 18 not the object: but it can be indicated as being of the object.

## SECTION 6 perception and doubt

Vātsyăyana interprets the word vyavasāyätmaka in the defintion of perception as excluding the case of doubtul apprehensions " Since a man, seeing an object from a distance, is not sure whether it is smoke or dust, and the uncertain cognition of the object which he has in the form 'this is either smoke or dust', is 'produced by the conlact of organ and object (indriyärthasamnikarsotpanna), it should be included under the head of perception. -It is with reference to this possible wrong view that the word vyavasāyätmaka, 'amounting to conviction', is inserted in the definition '". Nor can it be said that it is the 'mınd' (manas) alone that is concerned in such doubtful apprehensions, and that they do not therefore arise from the sense-contact. "For it is on having

[^83]actual visual impression of the object that the man has the uncertain apprehension (na avadhärayati) of it. Just as in true perception it is something grasped by sense that is grasped by 'mind', so (in the case of uncertain apprehension) it is because he has failed to have certain apprehension with the senses that he fails to have certain apprehension with the 'mind'. And this fallure to have certain cogntion with the 'mind', which is conditioned by the failure of the senses to give certain apprehension, being a state of mere hesitation (vimarsamätram) with reference to the precise character of the object (visesāpekşam) - constitutes doubt (samsaya); which does not arise previously to contact of sense with the object. In every case of true perception there is a determination or conviction (vyavasāya) of the knower which comes through the sense-organ, as is shown by the fact that, where the sense-organ is injured, no reflective consciousness of such determinate cognition (anuvyavasāya) ${ }^{2}$ arises '".

[^84]The exclusion of doubt from perception is in line with the exclusion of error from perception. The motive is to make perception a 'pramapa' $=$ pramdkatane The thought ts that knowledge, if it $\mathbf{w}$ knowledge, excludes error and doubt : and this applies to perceptional as to inferential boowledge. A fallacious resson is not a reason, but only sn appearance of reason (hetvabhdsa). Bo an erroneous spprehension by sense is not a perception, but only an apparent perception: and some logicians sccordingly nse the term pratyakpdbhdsa to deaignate erroneous apprehensions of sense.

SECTION 7. TER 'CONTACT' IN PERCEPPION
Perception is defined in the Nyäya Sùtra as arising from contact between object and sense-organ. Vāteyă. yana points out two difficultres neolved in this part of the definition. One is that the 'perception' of the 'qualities' of the soul (i.e. of cognition, pleasure and pain, and so on), might appear to be excluded from perception, since there would seem to be no sense-organ at work here. He replies that 'mind' (manas), the contact of which with soul is the condition of all perception including perception of one's own states, is a sense-organ. But, the opponent objects, it is not included in the enumeration of the sense-organs (indriya) given in Nyäya, Sütra I. 1. 12, viz., smell, taste, sight, touch, and hearing -The answer is that that enumeration is an enumeration of those organs only which (i) are composed of the material elements-bhautikāni indriyānı, (ii) are each confined to a special class of objects-niyatavisa$y a \vec{a} i$, (iil) sre organs of perception only so far as they are themselves endowed with the qualities which they apprehend ${ }^{1}$. Mind ${ }^{2}$, on the other hand, is not composed of any substance-stuff, has all things for its objects, and does not, operate as an organ through being endowed with the

[^85]qualities which it apprehends. And though not enumerated among the sense-organs in I. i. 12, it is separately mentioned in I. i. 16, where it is argued that it must exist since otherwise simultaneous cognitions would be possible ${ }^{1}$, as in fact they are not possible. And that it is a sense-organ is to be learned from another philosophical system ${ }^{2}$,-according to the accepted methodological principle ${ }^{3}$, that 'a view of others which is not rejected is accepted ${ }^{4}$.

The other difficulty raised by Vātsyāyana is that the definition only mentions the conjunction of organ with object, and fails to mention the conjunction of soul with internal organ and of internal organ with external senseorgan which are essential factors in the 'contact' from which perception arises.-The answer given is that this

[^86]sütra is not a formal statement of the full conditions of perception (etāvat pratyakşe kärauam iti), but only of the special conditions (visistakdranavacanam): the conjunction of soul with internal organ is a condition common to perception and other forms of knowledge such as inference : as for the conjunction of the internal organ with the external organs, which is peculiar to perception,bhidyamānasya pratyakṣajnānasya nāyà̇ bhidyata iti samānatvān nokta iti-that is, " it is not mentioned because it is not different in the different varieties of perceptual cognition, but is alike in them all'' : which presumably means that it may be taken as implied in the mention of contact of sense and object. The explanation is however so clearly inadequate that efforts have been made by the commentators to get some other meaning out of the sentence ${ }^{1}$. The truth seems to be that the sütra had not yet systematised its doctrine of samnikarṣa to the extent of explicitly recognising (what is 1 mplied in its position) that manas must form one of four factors in the 'contact'". Nor was the position one which it was easy to make explicit without raising serious difficulties. For manas then tends to combine two quite different functions. (1) as the organ of attention which prevents the knower from having more than one cognition at one time; (ii) as the organ through which the knower apprehends one particular class of objects, viz., his own psychical states.

[^87]And yet it is diffieult to differentiate the two functions:' and if we insert manas as a fourth factor into the formula of VS III. i. 18 atmendriyärthasamnikarṣād yan nispadyate (which appears to be the formula for the contact which conditions external perception, i.e. Identical with I.i. 4), it will become the same as the formula 'of VS. V.ii. 15 atmendriyamanorthasaminikarṣăt sukhaduhkhe (which is the formula for the contact which conditions 'inner-sense' awareness of psychical states).There was therefore a motive for omitting or slurring over the factor of manas in 'external perception'. But when, in opposition to the new that ideas are self-conscious (samivedya) ${ }^{1}$, the Nyāya-Vaisesika school elaborated its doctrine of the perceptibility by the internal organ (mänasapratyaksatā) of cognitions and when at the same time the internal organ (1.e. attention) was insisted on as a factor in external perception, an incompatibility between' the two functions attributed to manas (as a factor of attention in external perception, and as the " organ" of internal perception) becomes obvious. The Nayyāyika held that the cognition 'this is a jar' (vyavasāya) is different from, and can exist in independence of, the reflective consciousness 'I have knowledge of this jar' (anuvyavasaya). The latter was called in the later school mänasapratyakṣa, perception by the internal organ the

[^88]
## former is bahyendriyapratyakṣa, perception by external organs.",

## gection 8. TWO mominta in perception and various MODES OF 'CONTACT'. PRABASTAPADA'S DOCTRINE

Up to this point in the exposition it has not been necessary to go beyond the doctrine of the Nyäya Sūtra as expounded by Vātsyāyana. The commentaries of Uddyotakara and Vācaspati Mí́ra have been ignored, for the reason that they presuppose a development 1 n the doctrine of perception of which there seems to be no trace in the Nyäyabhäsya. This development in dectrine consists in a twofold progress in analysis: first, of the object (artha), which was seen to present a complexity hardly suspected at first; and secondly of the contact (samnikarsa), which will have to take on colours corresponding to various aspects of the object, if it is to be maintained that the object 18 equally an object of perception in all aspects. It may well be that the categories of the Varsesika system supplied the necessary instrument of analysis ${ }^{1}$ : and it is in a Vaisesika work, the

[^89]${ }^{1}$ Dinnsga, as often, hits the mark in his criticism, He says that the Nasyāyika borrows his definition of perception from the Vaisepika, but fails to connect perception with ' genarality, particularity, substance, quality, and action, on which the Vasbestik's intercourse (i,e, saminikareq, 'contact') is dependent' (Vidyäbhüpaps, HIL p 279). The order in which the five are stated is strongly saggeative of the mention of these five as "ousefonas or qualifications of the percept by Prassatapads. The view commonly accepted is that Pradestapads owe what is distractive in his logical doctrne to Dinnage. But there is evidence that the oqntrary in the case, and that Dinngige found slready developed in the Vaifeqika pchool (whether by Praias. taplids or by some predecessor of Prabastapsia) some at lesst of the doctrines which Prabastapide 18 supposed to have borrowed from him If for unstance his roference here is to the five 'vufeqana's' of Pradastapada, it follows that Buddtust logic owe 1ta five 'kalpand's (whoch are equrvalent to the oxfopana's) to the Vasenize schopl. A furthar piece of andancer pointing, in

Bhasya of Prasastapada, that the earliest statement is to be found of the two doctrines which subsequently became fundamental in the Naiyāyika theory of perception. The section on perception in Prasastapäda's Bhäşya forms in fact the basic text for this phase of the doctrine of perception ${ }^{1}$.
the rame direction in to be found in HIL, sbud, where Dinnags in stated to quote an explanation of the Vaifequa Satra on parception,the explanation corresponding clonely with Prasastapads's words Agam, Dinniga's attack on the doctrine of the nuiversal (sdmanya) ated in the SDS (Chapter on Bauddhas $=\mathrm{p} 81$ of Cowell and Gough's trans) 18 directed ageinst teaching identical with that found in Prabsatapads (thees lmee are sasigned to Dinnigg by Vidyabhugana, on the suthority of the Jama logicien Dharmshhiligana, but Vidyäbh6ipape does not identify them HIL pp. 978-4, note 7 The SDS quotes three couplets, and cites PraCestapida $m$ the context).
${ }^{1}$ The doctrine of savikalpaka and nirvikalpaka (reaily traceable to Fradsataplada) 18 attributed by Väcaspatı Mísra to Trilocana (NVT p 87, lest two lines asmabhih Trlocanagurannitamärgānugamanonmukhaih). Triocans is twice referred to in the Tarkikaraksd (pp. 337, 356, sccording to the TB editor's list of enthors cited) Gopinth Kavirad in his introduction to Jbis's translation of the Nydya (p 15) says "Udayana uforms us that in the work of reatoration of Uddyotakars's text Văcsespatı was indebted to (his touchar or pudyaguru as Vardhamana says) Trilocana" See NVTP (Bibl. Ind.) p. 9-What Udaysna says here 18 that Vacaspsti clams to have infused fresh life into the antiquated doctrines of Uddyotaksra by means of the elixir of mstruction got from the tescher Trilocans (Trilocanaguroh sakdidd upadeiarasdyanam dedditam amifam punar navibhdodya diyate Amąā̀i refers to the atyaratinām Uddyotakaragavindm of Väcaspsti's introductory stanza to NVT, on which Udayana in hare commenting) It is quite cloar that, whoever this Trilocans msy have been, both Ddayans snd Vicsepati regard him as having effected something of a revolution in the teaching of the school. It seems to me that he resily atands for the introduction of Prafagtapids's tesching into the $N y d y a$.

Vidyabhapapa HIL p. 184 notes that Trilocana 18 criticised by Ratnakirti (Sır Buddhat Nydya Tracts pp. 18 and 58), and that a poem Pärtha vıaya 18 attributed to one Trilocsan by Rajaselkhara in Saktimuktdealt HIL p 889 footnote states that the commentary on the Nydyasära attributes to Trilocane an eaghtiold division of Fallacies of the Example. (Praisatapida gives a twelvefold division PBh. p 947-v infra $p$ g92). It might be conjectured from the order of the authors criticised in the Apohasiddhe that Triocans's date falla between that of KumEria and that of the Nyäyabhapana. See Harapraged Sastri's introduction to Sux Buddlust Nydya Tracto, pp $1-$ uh In the other tract by Batnakirtb-the Kqapabhahgasiddhe-the order of suthors criticieed is Saikesra, Tricoans, Nyayabhlafana, Vicaspati: (see pp. 58 and 70 for Trilocana) Trilocann's date may be sbout 800 . The doctrine of nervikelpaka and saptkalpaka is already foond fally developed, and the terms already used (eee Sl Vart., pratyakgasatia, lines 86 and 80), in the Slokavastika of Kumlinle, whose dste is perhape 700-750. So that Trilocana cannot be the origunator either of the doctrine or of the phraseology

## Translation of Prasastapada's account ${ }^{1}$ of percep. tion.

- Perception is called pratyaksa because it arises in relation to this or that sense (aksam aksam prati). These ' akşas' or sense-organs are six, namely : smell, taste, sight, touch, hearing, and the internal organ (manas).


## (ぇ) Perception of Substances

'"Now perception arises in respect of substance and the other categories. Substance being of two kinds, there is perception of substances which have non-stomic magnitude, provided that they possess parts, and show manfest colour ${ }^{2}$, such perception arising from a contact involving four factors ${ }^{3}$,-provided that there

[^90]
# is also present the totality of conditions constituted by ' merit ' and so forth ${ }^{1}$. 

Two moments in Perception-(i) intuition of svarüpa, (ii) perception of subjects as possessing qualifications.
'"Perception is (at first)' bare intuition of unrelated things ${ }^{2}$. (But) from a contact of mind and soal which

It is difficult to determine the apphestion of the fourfold contact spoken of in thes sentence It seems to be stated as a general condition spplying to all casea of perception, - end yet Praśstapsda goes on to say that in some elasses of perception only two or three factors are involved in the contact. The probsble explanation 14 that the set of four factors, object, organ, soul, and 'mind' represents the norm to which the contact ordinarily conforms : there mast be a knower, s thing, an organ of sense, and attentive consciopsness But in certain cases there is a departure from this norm, for (1) in miternsl parception of the soul's own states there can be no contact between knower and thing, becsuse the thing is the knowar himnelf and the 'organ of sense' 18 simply sttentive consciousness to ons's own states, so that there is no question of contact between manas and indriya here and (i) in the perception of sound there can be no contact between organ and thing in which the sound perceived resides, becsuse the sound resides in the organ iteelf.
${ }^{1}$ Bridhars explains by dharmadharmadikka/adt- - merit, demerit, space, tume, etc.'. Merit and demerit, as adfota, constitate aman's 'fate ', and are the uaiversel condition of experience as such
${ }^{2}$ This is the crucisl pasasge $I$ adopt the verisant soarapalocanamatram pratyakpam in place of the Bingle word soarapalocanamstram (without pratyakpam) of the text. The text puts a fullstop after roaripâlocanamãtram, and no stop before $1 t$, connecting it with the preceding sentence

Where does this doctrine of bare intution come from? What are tot objects" What precisely is the meaning of avaripa?-Prasastapads himself gives us : clue later on in the section ( p 187 ll 18-17) where he says
 drapyddayah paddirthath This givee an snswer to the question-what are the objecta of the 'intuition'? (In the light of this passage, I am inclined to suggest that the words samdnyavisegesu have fallen out in the present sentence sfter the word svaripalodanamatram, the omimsion being due to the amilar phrase immedistely following, viz, simanyavidefadravya-etc This would explain the variant reading which adds pratyakpam - for the sentence is rednoed, by the omisaion, to the angle ward-soarapalocanamatram, so thst it became neceasary eather to attsoh thrs to the preceding sentence or else to fill up the stracture with mome sddition. NK p. 1891 is if supports this emendation)

As to the meaning of searipa, the term imptise nothing sbout the oharacter of the objecte minuted, but merely means that the objeot, whatever it be, in intuited' in itaelf', 10 not as relsted in any way to saything clec. Svarupalocana corresponds to the 'smple spprebension' of our schools
bears on the five qualifications (cisesana), namely, genus, species, substance, quality, and movement, there arises perception in the forms ${ }^{1}$ -

## The Five Predicables

(1) this substance exists
(2) this substance 18 earth-substance.
(3) the cow has horns
(4) the cow is white
(5) the cow goes.
logic as opposed to the orsegandpeksa, reiation to qualfications, which constitutes the " judgment '.

As to the source of this doctrme of the svarlipalocanamatra, bare intmition of essences, it is posisible that the view of perception as contect with s bare 'that' (svalakpapa) was already current, the consequence beng that
 but mere figments of imagination (kalpand).

Prasastapads may be replying to such a view in his doctrune that perception mplies, ss one moment in it, sn intuition of the ss yet unrelated characters (soeruipa), which can thus be factors in the perceptual judgment without incorring the condemnation of being imagmative fictions. The oiseşana's sre not mere kalpanä's becanse therr svarípa has been given in the 'alocana' moment of perception.

The niew in opposition to which Pradastaplada would then be putting forward this doctrine is that formulated in Dinnagg's defintion of perception as kalpanäposha Prasastap\#de interprete the word aoyapades yam of the $N y$ äy Sütra-not in the sense in which VEtsyäyana interprete it-but as meaning that perception gives, prior to neming (oyapadefa) and other relating activities, the characters which are then named and referred to a subject as predicatea. The opposition (Bauddha) view is that avyapadefye meant that perception is contact, not with soaripa's cspeble of becommg oufefapa's but with s svalakpapa which was incapsble of becoming a predicable; all the predicables being in fact fictions.

This might seem to support the view that Prasastapids followed Dinnaga, and that his videqowa's sre simply Dunags's kalpand's recast from a different angle of viaion For it neems probable that Pra fastapide's position implies antecodenta of which no trace is to be found in Vataysyana. And we find in Dinniga antecedenta which make the view of Pradestapeds intelligible But the epidence that Dudnäga was acquanted with views like Pradantap\#de'q (raterred to, in the yote alspve. p. 105) seems to me atrong.
'The five 'kalpant's' as stated by Vicaspats Mírs ara not quate the amm. See NVT p 1081.8 where they are gwor an mama; clace, quaity,
(ii) Percoption of Qualities. (a) Special qualities other than sound. (4 factors).
' Perception of colour, taste, smell, and touch has as its cause an organ specially appropriated to the particular quality perceived (niyatendriyanimittam), and arises from a contact of the organ with the thing in which the quality resides (soăśayasamnikarsāt) ${ }^{2}$, as the result of the inherence of the quality in many parts (anekadravyasamavāyat $)^{2}$, and of the distinctive character belonging to the quality concerned (svagatavisesãt) ${ }^{3}$.
act, substance, eg. It is Dittha it is a cow, it is white he is a cook he has a stick -Vidyâbhriqapa (HIL p 199 last hne of footnotes) ssys that "the udes of genus ( $j a t i s)$, quality (guna), action (krsyă), and name (năma) was derived from the Mahdbhaqya of Patafjeh ". It seems likely that the notion was originally derived from the grammarian's classificstion of words Dinns ga's argument appears to have been that words can never express the umque charscter which belongs to perception-the object of which is svalakqana, aus geners ' wheress words by ther very nature as conventions for communication can only deal with common characters (samanyalakłana) To say that perception is apprehension stripped of words (avyapadefya) is to say that it is apprehension stripped of all the (illusory) common charactars which the different kuds of words impose upon it - that is, it amounts to saying that perception is apprebension kalpanapodha. Perception is of the thing in its uniqueness (soaripatab), and the svaripa, the thing in its unaqueness, is necessarily avyapadefya, mexpressible. That means that nothing csn truly be predicated of it. All predicables are fictions imposed upon reality They are not genume quelifications (oweşopa) of the real. Bee HIL p 877 for an sccount of Difnaga's attitude.
${ }^{1}$ The samyuktatamavaya of later terminology The red thing 18 related by conjunction (samyoga) to the visual organ, and the quality-red-us in the thing by relation of inherence (samaodya). Therefore the relation of red to the visoal organ 28 inherence-m-the-conjunct.

[^91]
## (b) Sound

## (3 factors)

"The perception of sound arises from a contact which involves only three factors (trayasamnikarsāt) ${ }^{1}$, for sound resides in the organ of hearing itself and is apprehended through the organ alone (tenaiva) ${ }^{2}$.
(c) Attributes perceptible by sight and touch
(4 factors)
' $N u m b e r$, extension, separateness, conjunction and disjunction, nearness and farness, viscidity, fluidity, impulse (vega), and movement ${ }^{3}$ are grasped by sight and touch, as the result of inherence in perceptible substances.

## (d) Psychical states

## (2 factors)

"Cognitions, pleasure and pain, desire and aversion, and volition, are apprehended as the result of a conjunc-

[^92]
# tion (samyoga) of two factors ${ }^{1}$ internal organ and soul. 

## (iii) Perception of Universals

''The universals 'being', 'substancehood', 'qualityness ', 'the character of being motion' and other universals, which reside by inherence in perceptible substrates, are apprehended by the organs which apprehended the substrates (upalabhyädhärasamavietanäm ásrayaqrahakair indriyair grahanam $)^{2}$.

[^93]But of course neither view ${ }^{18}$ clesr. In the first place the function played by mind is smbiguous, both functions-that of organ of sense, and that of organ of attention-being confuped or identufied In the second place there is a confumion as to the part played by aoll in the 'contact'. Is it 'conjouned ' as subject of the knowledge, or ss substratum of the qualities which form the object of the knowledge? or both at once? Prasastapeda's asesertion that there are only two factors in this samnukarsa implies a double sdentufication (1) of manas with mdriya, snd (1) of atma and artha That 1 is (G) the sonl, as knower, comes in contact with (b) the mind as organ of attention and (c) the mind as organ of sense comes in contact with (d) the soul (as the substrste in which are inherent the paychical qualities which form the thing known), But (b) $=(c)$ and (a) $=(d)$ Therefore only two 'factars' are - Involved ' I This marks the bankruptey of the contact-theory when spplied to telf-Awareness.
${ }^{2}$ Two rubrics are given for the perception of universals in the Tarkabhd\&a, vis, (a) samyuktasamavetasamavaya 'inherence in what inherea in the conjouned '. The pot 15 conjouned with the eye colour inheres in the pot, and the oniversal 'colour ' inheres in the quality colour. But a different rabric is needed to cover the perception of the unverssl 'sound " (sabdatia), (b) samavetasamavaya : for the universal 'sound ' mheres in the quality sound, which again inhares in the organ of hearing. (c) There 18 yet a third case, that of parceiving the substanceneas of substance. but this comes under the rabric samyuktasamavaya (the rabric applicable to the perception, of quality and movement) - for substanceneas thereres ma anbatance, and a substance is (when perceived) in conjunction with the organ of sense (The Tarkabhäp does not mention this case)

This socount of the perception of the nniversal as a distinct form of perception, together with the notion of a unversal as something which inheres in oubatance; quality, and setion or movement, implies, an ultra. zenlistic mode of thought.

Such is perception in the case of ourselves and beings like us ${ }^{2}$."

## Note on the Perception of Movement

Sridhara polemises against an opponent who admits the reality of movement but denies 1ts perceptibility, holding that it is inferred from disjunctions and conjunctions. Sridhara retorts that, if this were the case, we ought to infer (when we see a monkey jumping about in a tree) that the tree is moving as well as the monkey, since the confunctions and disjunctions inhere as much in the tree as in the monkey. The opponent answers that the monkey alters its position in space as well as in the tree; and movement on the part of the tree will not explain the former set of disjunctions and conjunctions. Sridhara retorts that we may suppose the monkey to move in order to explain his change of position in space: but this does not prevent us supposing the tree to move in order to explain the monkey's change of position relatively to the tree. And the opponent must make the latter supposition, if he is in earnest with his principle of inference, which is that the cause (movement) resides in that in which the effect (conjunction and disjunction) resides (yadadhikaraṇam käryam, tadadhikaranam käranam). The opponent answers that the supposition of movement on the part of the monkey explains both sets of positional changes at once (both relatively to space, and relatively to the tree), and that therefore there is no need to suppose movement on the part of the tree. Sridhara retorts that a man may be free to act or not to act, as suits his convenience - but the mind is unlike the man in this respect-it is not free to apply or not to apply its own principles of inference at will ( $n$ a cedam puruşa iva cetanam yatprayojanānurodhăd pravartate). When

[^94]certain conditions are present the conclusion follows,when the inferential mark (middle term) is found to be related to a thing, it must establish that thing. The conclusion cannot be over-ridden by the fact that the result. might be otherwise explained, as is the case with a Presumption or Implication (arthdpatti) ${ }^{1}$. The opponent then shifts his position, saying that it is only changes of position in space (not relatively to this or that object) which proves movement (kriyānumitihetu). Sridhara rephes that conjunctions and disjunctions with imperceptible points in space are imperceptible : and if the opponent corrects himself further by suggesting that movement is inferred from the series of contacts with points on the surface of the terrestrial globe (bhügolaka), then he will find it dufficult to explain our apprehension of the movement of a bird flying in mid-air. Perhaps he will suggest that the middle term here is the continuous series of conjunctions of the bird with the multitude of rays ${ }^{8}$ spread out through space : but then he will not be able to account for the tactual perception of unseen and involuntary movements of the limbs or parts of the body in the dark; nor for the perception of movement in an instantaneous flash of lightning on a night when everything is obscured in great clouds.
(The passage is at NK p. 194 1. 13-p. 195 1. 6, and is translated by Faddegon p. 450, who however partially misunderstands the argument.-Psychology nowadays admits that the appearance of motion is a speci-

[^95]fic form of sense-experience; nor have the attempts to explain it in terms of muscular and articular sensations and local signs met much success. It is however a form of perception which is particularly prone to illusion: nor would it be easy to determine the conditions under which it could claim to be a pramanna, as the instrument of a cognition which is avyabhicäri. Probably the opponent had this in view when he asserted that movement is known inferentially. But Sridhara rightly suggests that unaided inference would point to mere relativity.-His argument would have been more interesting had it been directed against a relativist : but the opponent maintains an impossible position in asserting at once that movement is real, and yet not given in perception.)
The Perception of "In the case of Yogins, who Yogins.
(a) in the ecstatic condition. are different from us,-if they are in the condition called ' yukta', the internal organ, favoured by the qualities resulting from yoga, gives them unerroneous intuition of the essence (avitatham svarīpadarsanam) of their own souls, of souls other than their own, of 'ether', of space, of time, of atoms, of air, and of the internal organ ${ }^{1}$,-also of qualities, movements, universals, and differences

[^96]" inherent in these substances, -also of the relation of 'inher-
ence '.-If agan they are in the condition called 'viyukta', they can have perception of the subtle, the hidden, and the remote, arising from a contact involving the four factors, and as the result of the yoga-generated qualities."
Perception as process (pramāna) and as resultatit knowledge (pramiti, phala),

Pramạ̀a
Prameya
'In the case of perception, the instrument is the bare sensuous intuition of the unrelated essence (svarūpālocanamātrà pratyakṣam pramānam) of general and particular characters (sämānyarisesesu) ${ }^{\text { }}$. The objects are
(b) in the withdrawn condition. sam pramānam) of general and

The inconvenience of making tame and space imperceptible is mitigated however by treating the relations founded in tume and apace as qualities ( $g$ mina) of thinga-conjunction and duyunction, nearness and farness, beng enumerated among the twenty-four gunas' Relation ${ }^{18}$ not a categorp for Indian $\log x$,-except the relations of whole to part, of quality and movemont to substance, and of the universal (samainya) to subetances, qualities, and movements, which constitute the separate category of ' mherence ' (samavaya). The relation of substances to each other, conjunction and disjunction (samyoga, pibhaga)-which covers therr relation to 'time ' and ' space', as substances-resolves itself (as has been stated) anto a quality of the related substances,-s quality which is perceptible so for ss the substances themselves are perceptible But the moperceptibility of 'mherence' remaing a dufficulty for a system of metaphysical realism which refuses to dissolve the whole rato an aggregate of parts, subatance mato an aggregate of qualities or the universal into an aggregate of particulars
${ }^{1}$ sdimannyaviseza here 18 defficult But this much is quite clear, that the term does not refer to the oategory visega for this is not perceptible st all

We are hare concerned, not with what may be called categorsed perception, but with the simple spprehensions or 'stoff' out of which categorised perception arises thas in, with the objects of undifferentristing perceptionmaroukalpaka pratyakfa. And the objects of nuroikaipaka pratyakga-Pratas. tapsda's dlocanamatra-are here anid to be admenyacisosa, generals and particulars' Sridhhara (NK p. 185, 1 18 if) anys that Pragasteppdis us here denying the viow that what it given in the primary ' moment' of parception is only the general, and is asserting that the particular as well as the general is given in ' bare intaition.' But he goes on to point out that the object if as yet dotually neather general nor particular.seeing that 'general' mplios unclusion of others and '-urticolar' impliea exclumion from

## Pramātr

## Pramiti

The instrument in the production of ' simple apprehension '.
the categories, substance and so $\mathrm{on}^{1}$.

The agent or subject of the cognition is the soul (atma).

The resultant cognition is knowledge of substances etc.

In the production of knowledge of 'generals and particulars ', the instrument is undivided (avibhaktam V. L. aviyuktam $)^{2}$ bare sensuous intuition $^{3}$ (älocanamatram pratyakşam pramänam). Of this there is nothing else as a further instrument (asmin nānyat pram$\bar{a} n \bar{n} n t a r a m$ asti), because it has not the character of a resultant (aphalarūpatvät).
others and there is as yet no queation of 'others' in sn inturtion of unrelated characters. Compare Tha's PSPM p. 158, where the acoount given of Prabhälcara's niew of the object of narvikalpaka fildna appears to correspond with Prafastapads's view. See below p. 136 n .8 ad fin.
${ }^{1}$ Briuhara seys 'the four oategories, substance etc.', which means draoya, guna, karma, snd samanya.
${ }^{3}$ Whichever reading be sdopted, the sense would seem to be ' undiferentiated perception 1 e. nsrvikalpaka jnina, simple apprehension of unrelated character without distinction as qualfied and qualuication under the rubric of the 'Five Predicables'. But see next note, ad fin.
"Gridhara explains alocana as a noun of mstrument here-aloogate 'nenety dlocanam-' that whereby it is intuited' (NK. p 198, 121), and he interprets the passage to mean that the mastrument of the bare inturtion 18 the contect between sense-argan and object; this contact being' that whereby it is intuited'. He explains avibhaktam as kevalam, ie, fhanana. pekegam, not hsping reference to any precedent cogntion. This mere contsct of sense gives rise to undiferentiated spprehension of general and particular (nsroskalpakath samanyeoudeqajfidnam) as its phale or pramuti. But this undifferentisted or simple approhension is nevertheless asad to be 'not a redultant' ' in this semse, that if is not s resultant of prevsous apprehension. It is therefore asid to have nothing else-i.e., no other oognt-tion-as the instrument in its production. The case is otherwise with 'differentisted parcoption ' (eavikalpakaptana); for thus has as its condition not merely the bare enene-contect, but sleo the simple apprehension (niroiksipakafitina) of the characters which become the qualifications (vifeqayc) in

Alternative statement of perception as process (pramä$n a$ ) and result ( $p r a$ miti, phala)

Pramāna

## Prameya

Pramatr<br>Pramiti

Alternatively (atha vā), the instrument in perception may be taken to be) the unerroneous 'undesignated' apprehension $^{1}$ in respect of all the categories ${ }^{2}$ which is (thus) produced from the contact of the four factors. The objects (will in that case be) substance and the other categories. The agent or subject is the soul. The resultant cognition will be the recognition of things as either desirable, undesirable, or indifferent ${ }^{\text {².,' }}$

[^97]
## SECTION 9 'SIMPLE APPREHENSION' AND COMPLEX PERCRPTION (NIRVIKALPAKA AND SAVIKALPAKA)

How can the immedrate of Perception be mediated in a. Perceptual Judgment?

Diñnäga's characterisation of perception as ' stripped of characters'1-kalpanäpodha-is taken by the schools as the text for the treatment of this topic ${ }^{2}$. But the discussion is complicated by reference to the question of the relation of language to thought, and by a polemic against the views of certain ' Nommalists' (sābdika) ${ }^{3}$

[^98]who appear. to have taught that words and thoughts are inseparable. It is aganst these ' nominalists' that Vātsyăyana's explanation of the word ' avyapadesya ' in the sütra is supposed by the commentators to be directed. As against these nominalists ${ }^{1}$, avyapadeśya asserts that there is a moment in perception separable from all use of language ${ }^{2}$. It seems likely ${ }^{3}$ that Diñnāga took this nominalist view as the starting-point from which to develop his own position. He takes 'name' as the first of the five characters, of which he asserts the pure percept to be devoid : and it may be supposed that his own view was arrived at by accepting on the one hand the Säbdika's view that the thoughts through which we determine reality are inseparably connected with words; and, on the other hand, the Nayyayika view that what is immediately given in perception is independent of the words by which we come to designate it. But of concepts are inseparable from words, and the percept is separable from words, it follows that the percept is separate from all concepts or determinations of thought.

[^99]So that the Naiyāyika's description of the percept as not verbal (avyapadeśya, aśābda) becomes equivalent to describing it as free from those other determinations or qualifications-of class, quality, action, and attendant circumstances or accident ${ }^{2}$-which, through the uee of words, we assign to the reality present to sense.

The Buddhist is represented ${ }^{2}$ as holding that only pure or unqualified perception (nirvikalpaka) is entitled to the name of perception. He understands by pure perception an appearance (pratibhāsam) which is true to the real (vastuny abhrāntam) as conforming positively and negatively to the svalaksana $a^{3}$, the unique moment of

[^100]existence which alone is ultmately real (svalaksanānvayavyatirekānuvidhüyıpratıbhāsam'). All the (predrcables ' (visesana) or determinations of thought (vikalpa), are untrue to reality (bhrānta), because they are not appearances born of the thing (anarthajapratıbhäso vikalpah); being appearances which do not conform to reality (vastvananurodhipratibhāsa), their production
or the object of sequisition, endesvour, or sctivity (prapapiya, adhyavaseya, of. praeftivisaya p. 161 6). "anyo ht grahyo, "nyas oddhyavaseyak Pratyakpasya hi kgana eko grahyah Adhyavaseyas tu pratyakgabalotpannena nisicayona samiting eva Samidina coa ca pratyakpasya proipaniyah, ksanasya pradpaytum asakyatedt ", i.e. the object apprehended in parception is the single moment but this cannot be the object of endeavour or achreve-ment,--the 'prapayifya' of perception is not the single moment but the serses of momente (which of course is unreal) He adds that in inference, on the other hand, the object apprehended (grähya) is an unreality (anartha) but this nuresl is illusorily imposed on the real (äropita), and is concerved of as svalakpape (soalakęanationdoasiyate) the svalakfana thus 'supposed ' (sealakganam adhyavasitam) berng the object of activity (praopttivisaya)

Poussin (translation of the Sarvadarfanasamgraha chapter on the Bauddhas-Musion, n 11,1901, p 172, flotnote 50) cites these psssages, and concludes that soalakfana $=k$ kana

As regards the unreality of the object of inference of. the passage cited from Dıónsga at NVT'p 1271 , arvo 'yam anumānānumeyabhaivo buddhyāradhena dharmadharmsbhdvena na bahthsadasattvam apekgate "All this busmess of nference sand inferred things depends on the subjectattribute relation imposed by thought, and has no reference to the existence or non-existence of external things ".

In what sense there can be nearnees to or remoteness from a soalaksana so defined remains obscure
${ }^{1}$ cp. NV p. $441182-4$ with $N K$ p 190 ll. $5-6$ and $N k$ p 191 Il 23 24. Uddyotakars asye apare tu manyante pratyakfam kaipandpodiam sts atha keyam kalpañ? nāmajätiyojanett yat kila na nämndbhidhiyate, na ca
 vodyam,-tat pratyaksam its "Bome hold perception to be devoid of thought-determination-kalpand What is this determinstion, this kalpand? It consists in synthesis with name, and with class. The percept is that which is not deengnated by a name, nor determmed by class and the other predicables; it has a shape corresponding to the unique character of the object; and is self-cognised'.
(Jhat takes parscohedakam as a separste word 'definite ', observing in a footnote that thus umplies validity)

The vunilnavadin Buddhist held that cognitions are not percerved through mner sense perception by manas, but sre somehow conscious of thomsolves. Atma of course does not mean the soul or solf-which the Buddhate rejected. The Sarvadarf́anasamgraha states svayam-vedanam [socsampedanam] as the fundsmental doctrine of the Yogdedra, we pifild navddin school. In this connection the school used the sumile of the lampwhich, self-illumined, illuminates objects. You do not need another lainp to see your lamp by.
being conditioned by ' psychical dispositions ' (väsanādhīnajanma).

We have what seems a perfectly definite perception of a jar of such and such a shape, quite distinct from all other jars. But the Buddhist tells us that all the determinations (vikalpa) which make the supposed ' percept' definite are appearances not derived from the real thing, and that our belief that the thing as thus determined is real, is illusory-
vikalpo vastunirbhāsād visamvädād upaplavah.-But is it not the fact that there is correspondence in actual practıce (pravittau sam̀vädah)?-The Buddhist replies that the supposed correspondence is due to the fact that the determinations derived from previous experience illusorily impose their own appearances, under the guise of identity with the real thing; and, while obscuring the difference between the svalakṣana and their own manifestations in consciousness, direct men's activities on the place where the svalaksauna s--thus ensuring the 'correspondence' which is alleged ${ }^{1}$. The gleam of a precious stone is not the stone itself : but it enables us to get it !

But unless the thought determination (vikalpa) is in contact with the thing (vastu samsprsatu), how could it impose 1 tself as identical with the thing? Even a mirage has an objective ground l-The reply is that thought uses the percept as a vehicle (pratyaksaprsṭhabhävi vikalpah) and so, assuming the function of the instrument of knowledge, presents to us a thing that can be acted upon (arthakriyāsamarthain vastu säkṣătkaroti), -otherwise the person desirous to act could not act on the basis of his thought-determinations. This is what the Buddhist writer meant when he said " thence also it is on the real thing that we act as a result of thought-determinations" (tato ' pi vikalpād vastuny eva pravrttih).

[^101]-But does not this amount to the admission that thought (vikalpa) is after all a means of knowing the real thing, seeing that it is the source of apprehensions which correspond with the real thing (vastuni pramänam, taträ-visamंvädipratītihetutvāt)?-The Buddhist tries to avoid the admission by saying that between the momentary existence which is the real object (grāhya) of the perception and that which 18 the 'object' (adhyavasiyate) of the thought, and between this latter again and the ' object ' achieved (labhyate) in the ensuing activity, there isregarded as momentary existents-no correspondence, because they are all momentary ${ }^{1}$. Regarded merely in the light of an exclusion of what is other, we can indeed find a certain correspondence in the percept, the idea, and the object achieved,-if we abstract from the (real) diversity which belongs to them as absolutely distinct 'moments ' of experience (anākalitaksaṇabhedasya atadvyävrłtavastumāträpekşayā samंvädah). We cannot say that the object of perception is the object as determined by thought, nor that either of these is the object achieved or got practically. But we can say that the object grasped in perception is like ${ }^{2}$ the object as determined by thought. and that the latter is like what is achieved by activity (yädrśah kşanah pratyakṣena grhyate, tädrso vikalpenādhyavasiyate, etc. $)^{3}$. But even so the thought-determination (vikalpa) will not be an independent means of

[^102]knowledge, seeing that it only apprehends the already apprehended ${ }^{1}$ (And what the Buddhist is arguing here is that vikalpa is not a pramana). For it is by perception and nothing else that an object of this character (which now appears in 'idea') was originally grasped).

We (the Bauddhas) admit however that a thought determination derived from an inference (lingaja) is an ndependent means of knowledge,-because it apprehends something of which the unique being has not been already grasped by another means of proof, i.e. by perception (pramānāntarāprāptasvalakṣanaprāpakatayä pramanam ${ }^{2}$ (But this is another matter.)
-This position too is unsatisfactory, replies the Naiyäyika. For the momentary existent's 'exclusion from-what-is-other' (anyavyāvetti)-and the unreal common character illusorily imposed upon it in virtue of this negative character of excluding-what-18-other-s is not grasped (grhyate) by perception, seeing that the object (grāhya) of perception is characterised by the Bauddha as a 'cause' (hetu), and unreal things (such as this illusorily imposed common character of being different-from-what-is-other) are devoid of all practical

[^103]efficacy (samastärthakriyävirahāt), -(and therefore could not be a ' cause ' of perception or of anything else). It is the momentary existent that possesses practical efficacy, and so is real (paramärthasat); and it is this therefore that is the object of perception. (And so it is impossible for the Buddhist to deny that thought is a means of cognition on the ground that its objects have already been given in perception: i.e. on the ground grhītagrähitavāt.)-And it cannot be said that the object of the thought is one with the object of perception, because the percept is a momentary existent and is said ' not to extend up to the time of the thought ' (vikalpakälānanupātitly uktam).

And if it be allowed that there is some single objectof unexplained character-common to the thought and the perception, which could admit of a correspondence for practical purposes (prarrttisam̀vādayogya), thought would not fall outside the definition of a source of knowledge. because (1) the idea has no reference to impressions which might have preceded it in determining the object, the case being similar to that of a series of relatively independent impressions derived from an object ${ }^{1}$; and (2) because what has been conceived in thought is capable of being applied in action (adhyavasitaprāpanayogyatvāt).-And, if thought ${ }^{2}$ is thus established as a source of knowledge, it must be classed under the head of perception, because (1) the thought-determinations by which the object in perception is qualified are not referred to the object through a middle term (so that the process is not inferentral); and (2) because it occurs when organ and object are in contact,

[^104]and does not occur otherwise (so that it must be regarded as indriyārthasaminikarşotpanna) ${ }^{1}$.

But although these determinations of the percept are no less produced by the object (arthaja) than the pure or unqualified percept (nirvikalpaka), the qualified perception of the object does not arise through the mere contact of organ and object. A further condition is necessary. This condition (according to Sridhara) is the remembering of the word ${ }^{2}$ which names the qualification in question (vācakááabdasmarana). - In that case, the Buddhist objects, ought not the thought-element in perception to be classed under memory ${ }^{3}$ as being. generated by a memory and not by organ-and-object? for the part played by organ-and-object is eclipsed (vyavahita)

[^105]by that of memory. The Naiyäyika replies that auxiliary circumstances (sahakärin) do not oust the inherent power of the thing: you would not say that the seed is not the cause of the production of the shoot on the ground that it as eclipsed by auxilsary conditions of growth like earth and water l-But what is the assistance (upakära) rendered by the memory of the word to the organ and object, that it should be called an " auxilhary circumstance" ? ?-The answer is that, as the thought-determination in its arising corresponds positively and negatively to the organ-and-object, so also does it correspond posstively and negatively to the word-memory ${ }^{1}$ The assistance rendered by the memory to the organ-and-object then is that, organ-and-object alone falling to produce their effect, they produce it when the memory of the word is present as an auxiliary crrcumstance. And the Buddhist's view that " characters which add nothing to the inherent nature of the thing itself would not be 'auxiliaries' ${ }^{2{ }^{2}}$ ' has already been rejected ${ }^{3}$ when we

[^106]
## had occasion to refute the doctrine of momentariness (kṣanabhañga).

[^107]
## SBCTION 10. THE DOCTBINE OF THE RPA工 UNIVBRBAL

## A partial answer to the Buddhist attack on the 'percept'-savikalpaka pratyaksa-is to be found in


#### Abstract

produce the effect which is to be produced " (salıakēriño na jahyatt, pratyuta palayamánän api gale päjona baddhoè kfiyach karyam kuryat. SDS) Now कhen the entity (bhdoa) takes to itself a dutinct additsment (atraaya), x , in the form of the service (upakara) rendered by its auxilisry (sahakartn) does the additament produced by the auxihary generste another additament, or not? If it does, there wall be an manite regress of additamenta and aunilaries, if it does not, the so-called auxilisry will not be sn suxiliary (Väcaspati contents himself with this brief indication of the dilemma at this poınt-upakärdsyopakärāntarajanane anavasthänät, ajanane tu sahakdrubhāpabhaipdt. NVT p. 888124 ).


The dilemms amounts to this $A$. If the sdditament lesds to no Turther additament then (a) the effect might appear at any time at which the co-called causal entrity might happen to add to itself the additament Yon can only avord this consequence by adding that the causal entity takes on the odditament only when in relation to the auxiliary (bijam atisayam ddadhdnam sahakdrisapokitiom coddhatte) (b) the so-called casusl entitythe seed, for example-might be no cause at all, the effect being produced by the sdditsment To avoid this contingency you will have to add that the sdditament or 'service' (upakära) is an sdditament or service relating to the causal entity, eg the seed

In order to avond the above horn of the dulemms jou must adopt the mecond siternative But in doing so you fall mito a many-faced regressus ad snfinitum (bahumukhanavasthä), thus :

B If the addatament is thus admitted to lead to further additaments, then (a) You have added to the seed which has the additsment which makes 3t prodactive the further additament of relation to the suxiliaries But as this further additament, like the former, can only be generated by the seed in relatson to an auculiary (tasmsn apy upakäre päroanyāyena sahakäruāpok\&asya bijasya janakatoe), there will be an infinite regress of addatsmenta arnsing in the soed after acquiring successrve anmilisires (sahakärisampädyabijagatatisayänavarthd prathamā). (b) You hsve added to the additament itself, or service rendered, the further addatament of relation to the causal ontity ( 10 the service must be service to the seed. A qualification is thas added to 'service'). But this entails a second regress arising from the geries of additaments-reerdent-m-additaments generated by the seed (bijadyanyãtusayanspthätusayaparamparat sth dostiydnavasthd) The service to the seed is an additament qualified by the further additsment 'to the seed ': and this further additament will be qualified by the atill further additament that it is an addutament to the additament : and this still further additament is a yet still further additament to the addatament-to-the-sdditsment-to-theseed, and so ad infinstum. In order to relate $x$ to $a$, the service to the seed, we must concerve as having the further charactaristic of $y$ ie of being related to a And then we must conceive $y$ as having the further property $x$, symbolsing its relation to $x$. and so on. Relatedness in fact mesns an infinte series of terms. [See McTaggart's Nature of Exvetence pp. 88-89 " every characteriatic of so substance generstes an infinite series of fharactoristics of that substance . . . If we start with an ongins] relationship.
the assertion that the universal (sămänya) is a perceptible reality distinct from the particular. Sridhara says: " if we shall be able to show that the universal is real, then the apprehension of the characters (by which we determine objects in 'differentiating perception') will have these real universals for its objects, and will be perceptual apprehension because produced by (contact between) sense-organ and object ${ }^{1 "}$. The real universal is an object of sense no less than the particular: so that sense-perception gives not a bare 'this', as the Buddhist supposes, but determinations also. Sridhara sums up the Naiyäyika reply to the Bauddha as follows: "Thou-ht
 not a 'fiction of the understanding'; because the qualification, the qualified thing, and the relation between them in virtue of which they are determinand and determinant, are all real (văstavatvät) ${ }^{2 \prime \prime}$.

[^108]To this the Bauddha replies: "Cognition which grasps the real thing is engendered from contact of the urgan with the thing just so as the thing is, ${ }^{1}$ and doens not proceed by first reflecting upon the thing (na tv arthe vicātya pravartate). Apprehension of a thing as quali'fied (visistajnäna), on the other hand, is a reflective process. A man says to himself 'this is the quelification', 'this is the thing qualified', 'this is the relation between them', 'people do not talk about a stick with a man, but a man with a stick' : and after thus reflecting on each of the factors separately he makes a unity of them, and cognises 'a man-with-a-stick' (paścād ekīkrtya gṛhnätr). If the qualifiedness of the thing were real (yadi vāstavi visistatata), the apprehension of the thing as qualified would arise from the very first. If it does not do so, this means that the qualifiedness does not belong to the thing in its own nature (svarūpatah), but is constituted by some superadded condition (upädhakrta) ${ }^{2, \prime}$.

The doctrine of the real unversal makes its first appearance in the seventeen sutras which form the second ähnika of the first adhyāya of the Vaisesika Sutra; and Prasastapada's brief treatment of the topic ${ }^{3}$ seems to follow the teaching of the Sütra fairly closely. Dinnaga attacks the Vaisesika doctrine in a fragment ${ }^{4}$ of six lines preserved in the Sarvadarsanasamgraha. Prabhākara rephes to his criticism, and enunciates the realistic doctrine in a different form ${ }^{5}$. There is, besides, a passage in the Nyāyasuitra which, in dealing

[^109]with the nature of words, distingushes the 'class' ( $j$ ät $t$ ) from the individual ( $v y a k t i$ ) and from the 'form' ( $\bar{a} k t i)$ ), i.e. the mark by which a class-nature is recognised : but there is nothing said as to the ontological character of this ' $j \bar{a} t i$ ' which is merely defined by 'production of the like' (samänaprasavātmikā jātch NS II.11.71) and seems to be what we should call a natural class. It seems that the doctrıne of the real unıversal was primarily a Vaiseşika doctrine; though the Nyäya-sūtra also knows it. ${ }^{1}$

The Vaisesika Sūtra teaches that sāmānya and visesa are relative to thought (sāmānyaviseṣa ttı buddhyapeksam I ii.3). The meaning of this seems to be explained in the two following sütras which say that Being (bhāva=sattā) is only sāmānya, because it is the ground of inclusion only (anuvrtter eva hetutvãt); while 'being a substance', 'being a quality', and 'being action' are both sämānya and viseṣa. Sūtra 6 says that sāmänya resides elsewhere than in 'ultimate differences' (unuaträntyebhyo visesesebhyah). The universal 'Being' is what is meant when we assert existence of substances, qualities, and actions: it is a different thing from substances, qualities, and actions (dravyagunakarmabhyo' rthäntur ram sattā I.ii.8). It is neither action nor quality, because it resides in 'actions and qualities'2 (9) - moreover there is absence in it of sämannya and visesas (10). After

[^110]similarly arguing the reality of the subordinate universals dravyatva, gunatva, and kaxmatoa (sütras 11-16), the section concludes with the assertion that Being is one because the character of 'existence' is not different (in the various things which are said to exist), and because there is no specific mark (through which we assert existence) ${ }^{1}$. The perceptibility of universals is asserted in another passage (VS VII. i. i. 13) ${ }^{2}$, but there seems to be no statement that they are eternal ${ }^{3}$.

It has been held that VS I.ii. 3 asserts the subjectivity of the universal, and that therefore the Sütra does not teach the doctrine of the real universal. But it is out of the question to assert this in the face of the explicit statement of I.ii.8, and of the general sense of the section. The doctrine of the Sütra is fundamentally that taught by Prasastapāda in the Bhäsya.
" Universals are of two kinds, primary and subordinate. The universal is ubiquitous witho its proper sphere ${ }^{4}$, identical ${ }^{5}$, resident in more than one substrate ${ }^{5}$, and is what makes us think of a thing as

[^111]conforming to its essence-whether the thing be one individual, or two, or many. In other words, without losing its identity it is resident in a series of substrates, and is the ground of the thought of one nature running through all. How so? When we have a series of experiences of this, that, and the other individual, a mental disposition or impression is generated by the thought of repetition, and thereby the series of past experiences is remembered, and we realise that the factor of commonness which runs through them all (sämãnyãpekṣam . . . yad anugatam) is the universal.

The primary universal (spoken of above) is the universal 'Being' (sattāsāmānya), and gives rise to the thought of inclusion (anuvptti) ${ }^{1}$ only. As the result of contact of a single indigo-stuff with leathers, cloths, blankets, and so forth, all of which are different from one another, there arises an identical thought about them all, viz, that each of them is blue ${ }^{2}$ : and in the same way we have an identical thought about substances, qualities, and actions, which are all different from each other, viz., that they all exist (sat sad iti pratyayānuvrttıh) ${ }^{3}$. And this thought must come from something other than substances, qualites, and actions, as such. This 'something other' is the universal 'Being';--the reality of which is thus established. From union with the universal 'Being' the identical thought recurs in the case

[^112]${ }^{3}$ This phrase has a variety of forma. Sometimen we find anuefttspratyayah, sometwes anuppttapratyaya, here pratyayanuopttih Sumilarly when anugama and anugata are unbetituted for anueptis and anuofta.

[^113]of each thing that it $2 s$ : and therefore 'Being' is a universal, and the Summum Genus ${ }^{1}$.
'Being substance', 'beıng quality', 'being action', and the rest ${ }^{3}$ are subordinate universals, because they are the ground of the thought of exclusion as well as of inclusion (anuvrtti-vyävrtti-pratyayahetutoāt). A subordinate universal is thus both genus (sämãnya) and species (visessa) ${ }^{3}$. Thus substance-hood is a genus

[^114]'the rest' means the unverssls subordinate to substanco-hood, gux'ity-ness, and action-hood, $\rightarrow \mathrm{g}$ prthrītea, rüpatoa, utksopanativa, e'c. 'It comprises all universels other than sattd
'visesa suffers from an unfortunate smbiguty
(a) As one of the categories of the Vaifesika syatem it means those ultimate differences which separate unique entities such as atoms from each other. Each of theme entities 18 regarded as sbsolutely sus generis, and so thert differences are not specific differences in fact about these differences nothing can be asid except that they are differences The difference of one stom from ansther is not in virtue of some charscter which st shares thith anything else; but in virtue simply of its own uniqueness Such a difference therafore cannot be apectic If it were, you would agan have to look for a difference to distinguish the members of the species-and so ad infintum. If you are to avold this infinite regress, you must sdmit sooner or later the reality of unclassable uniqueness of character And this is oreosa as an ultumste category This category suggests, snd perhaps has, some relstion to the Buddhist conception of apoha.
(b) But-in asecondary sense, as Prafastapaida humself says just below-specific differences are alno called owesa And these ondesa's are in fact samdnya's, unversals, because they are the common property of a class of things. In the vast majority of cases in which the term videfa is used, it is used in this latter sense-nsturally so, since vifeqa in the other sense is a mere surd or fullatop to thought, sbout which there 18 nothing to say except to sasert its existence. It is commonly sald that the Vaidegika system derives ity name from the category piefea. But Feddegon argues, on good grounds, that in fact the syatera is so called by resson of its charscteristic method of proceeding sadharmyavaıdharmyäbhyäm, 'through likeness and difference'. These differences (oasdharmya) are of courme ontesa in the so-cslled secondsry sense, and not the category videqa, which is not available for the practica. parpose of drawing distinctions The Vauleqika school is characteristically 'the school of dutinctions '.

U1 states that later Vasfegtha menuls sometmes erected sdmänyausfosa into an additional category, side by side with sattaisdmanya, on the one hand,一which is only admänya-, and with vifega (the category) on the other hand, -which of course is only vifeqa (never samãnya). We often meet the comporind simanyavidefa, and it can veually be translated specific universsa]; 'subordmaie universal ', being aned to distinguish all other universals fromis
because it is the ground of a thought which comprises the different 'substances', earth and the rest: and it is a species because it is the ground of a thought which excludes substances from qualities and actions.. ... ${ }^{1}$.

But these universals, substance-hood, and the rest are in the primary sense genera (sämänyänn), because they comprise many things: 1 t is in a secondary or transferred sense (bhaktyä) that they are called 'riseṣa', from the fact that they differentiate their substrates (from other things $)^{2}$.

That these unversals constitute a separate category (padärthäntaratva) from substance, quahty, and action is established by the difference in their characters (laksanabhedāt) And for this very reason (i.e. that they are different from substance, quality, and action), unversals are eternal' Ana universals are different from each other because they are determıned to residence in substances ${ }^{4}$, and so on . and because the thought of one

[^115]universal differs from the thought of another universal. And each universal is one, because it shows no difference of character as residing in its several substrates, and because there is no character of difference ${ }^{1}$.

Although universals have no determinate location (aparicchinnadesāni sāmānyāni), nevertheless each is 'ubiquitous within its proper sphere' because the condrtions under which each is manifested are determinate (upalaksananiyamät), and because there is a definite totality of conditions requisite for the production of the individuals which manifest the universal (kāranasāmagriniyamatt $)^{2}$. And universals are not to be indicated in space (antarāle avyapadeşānı) because they cannot reside there either by relation of conjunction (samyoga) or by that of inherence (samarāya) ".

In an earlier passage ${ }^{3}$ which treats of the likenesses and differences (sädharmyavaidharmya) of the categories, Práastapāda mentions seven characterıstics common to the three categories of Universality, Ultımate Difference, and Inherence, which differentiate them from the other three categories, Substance, Quality, and Action.
" The three categories of Universality, Ultimate Difference, and Inherence have the characteristics (1)

[^116]that their Being consists in their own essence or unique nature (svātmasattva); (2) that they have thought for their characteristic (buddhilakṣanatva); (3) that they are not effects; (4) that they are not causes; (5) that they do not possess genus and species (asãmänyaviseşavattoa); (6) that they are eternal; (7) that they are not called 'things' (arthasabdānabhidheyatva)'.

The following observations may be made under these seven heads :-
(1) Substances, quahties, and acts are held to exist in virtue of a unversal 'Being' residing in them. In other words these three categories all exist in the same sense • existence is a class-notion applicable to all these three categories. In their case sattäyogah sattvam-existence consists in being united with a universal 'Being' -as Sridhara expresses it But we cannot bring the universal 'Being' itself under the same class-concept: we cannot say in this sense that 'Being is'. For this will lead to an infinite regress (anavasth $\bar{a}$ ), since it means that Being has a Being, which again has a Being . . . ad infinitum. Nor can we bring any of the other universals under a further universal without falling into an infinite regress. Blue things possess blueness, but blueness does not possess blueness-ness; for if the latter supposition were made ${ }^{1}$, there would be no limit to the multiplication of super-universals.

[^117]And similarly we must not say that the various universals are' all universals in virtue of a universal nature 'universal-hood' (sämänyatva) belonging to all universals as such.-And yet we do say that this, that and the other universal exist : and we do say that this, that and the other universal are universals. Does not this unnversalising function of thought imply a real universal 'Being' residing in unversals, and a real universal 'unversality' which makes them all alike univer-sals?-Praאastapāda's reply amounts to saying that there is really no universalising function of thought implied in the assertion that the various unversals exist and in the designation of them all as unversals. Each is unique in its existence and in its nature : and the use of a common term,-'existence', 'universal',-does not here imply any real community of character.
(2) This probably means, as Srïdhara explains ${ }^{1}$, that thought itself 18 the proof of the reality of the unsversal, when its reality is contested (vipratipannasāmānyādusadbhäve buddhir eva lakṣanam: lakşanam beng glossed by pramānam). It is true that, on PraSastapāda's wiew, the universal is perceptible, and therefore perception 38 the means of knowledge (pramāna) by which we apprehend it. But, in dealing with an opponent who refuses to admit that the universal is given in perception, the

[^118]appeal lies to the universalising function of thought, anuvrttipratyaya. And it is in fact on this that Prasastapäda relies in order to establısh the realıty of the universal.
(3) The universel is not an effect, in this sense that it has a subsistence independent of the individuals in which it inheres (käranānapekṣasvabhävatva). A whole (avayavi) is an effect of which the parts in which it inheres are the constitutive cause (samavāyikārana). But this cannot be said ot a universal, which (unlike a whole) subsists before and after any individual in which it inheres.
(4) A unversal is not a constitutive cause, nor a nonconstitutive cause (asamavāyikāraṇa). It must however be allowed to be an occasion or occasional cause (nimittak$\bar{a} r a n a):$ for it is the occasion of our thought of the unıversal.
(5) This is explamed under (1) Sridhara however interprets sämānyavtsesa here as meaning specrfic or subordınate unversal, aparajāti.
(6) Universals are eternal because they endure while individuals arise and perish.
(7) By the writer's own convention (svasamaya) the word 'thing' is not apphed to unversais

Dinnāga's dialectic aganst this realistic view is preserved in a fragment cited in the Sarvadarsanasamgraha ${ }^{1}$ Praśastaptada does not reply to any criticisms of the kind which Diñnāga brings. But Prabhākara's doctrine seems to have simılar criticisms in view. "'Though the Jätı or class-character is eternal, yet when a new individual belonging to that class comes into existence, what is brought into existence . . . is not the classcharacter, which is ever present, but only the relation (inherence) of the individual to that class-character
${ }^{1}$ Drániga, Fragment $Q$.

There is nothing objectionable in the 'production' of 'inherence', because inherence, according to Prabhăkara, is not eternal (as held by the logician) ${ }^{1 "}$. Prabhãkara differs from Prasastapãda in refusing to admit satlí, 'Being', as a universal, apparently on the ground urged by the Bauddha critic as reported in the Sarvadarśanasamgraha. that there is no common form running through things so different as Mount Meru and a mustardseed ${ }^{2}$.

## gection 11 RECOLLECTION, ATTENTION AND ASSOCIATION

In a passage in the Nyäya-sütra which discusses memory it is suggested first that recollection is brought about by a specific kind of conjunction between manas and the soul. The traces of past experience inhere in the soul, and are serially roused when manas makes contact with the part (pradesa) of the soul concerned. See

## ${ }^{1} \mathrm{Jha}, ~ P S P M, ~ p ~ 100$

${ }^{2}$ Bridhars has two digresaive passages in his comment on PBh here, viz, NK pp 815-816, translated by Faddegon p 502 ff , and NK pp 1118, translated by Faddegon p. 860 ff . The former deals with an objector who maintsins that the universal is both different from and non-different from the partacularn, (bheddbheda), on the ground that if you take the universal in abstraction from the particular it has no content left to distinguish it from other universels. Universelity, as such, only mesns in-clusion-it will be the same in one unvarsal as in another, and will not provide s content by which one universal is distingushed from snother. Bare unversshity is an empty thought-form, deriving all 1 it content from the particular from which therefore it cannot be regarded as separsble. But on the other hend the cow-hood which is thus inseparable from cow Blots and con Spota sind identical in both (for you cannot say' Spots is a cow-and so Blote is not a cow ), is at the asme bume differentiated from this or that particularbecaufie the cow-hood of Blots, being at the same tume the cow-hood of Epots, cannot be identical with Blots herself for Blots 18 not Spots, though both are cows (davaloyatmakasya gotvasya bähuleyätmakate sudhe fãvaleyäd bhedo 'ps addhyats NK p. 815121 ).

By simular reasoning it is argued that the universal is not merely eternal, as the Vaseeqika holds, but at once eternsl and non-eternal (nitydnstya), becsuse it both survives and does not survive this and that indinidual. When Bpots dies, her cow-hood dies also; but the cow-hood of Blots survives.

The other pastage reviews various defmitions of 'being ', put forward in opponition to the Vaifeqika doctrine of unversal 'Being,'.

NS III. ii. 25 jñãnasamavetātmapradeśasam̀nikarşān manasah smrtyutpatter na yugapadutpattih-we do not have all our memories simultaneously because memory arises from contact of manas with a part of the soul in which the knowledge is inherent. In modern phrase, memory depends on attention to a particular sphere of experience : and we do not attend to everything at onceIn Naiyäyika phrase, though ätman is all-pervading (vibhu), manas is atomic: so that, though soul as such is potentally all-knowing, attention limits the actuality of knowledge to one thing at a time. It is then suggested that manas has to go outside the body in order to make contact with the 'parts of the soul in which the knowledge resides'; but then the objection arises that in the temporary absence of manas the function of maintaining bodily equilibrium would fanl and a man would fall whenever he was occupied with attending to his memories. (We solve precisely the same difficulty by entrusting such function as maintaıning equilibrium to 'subconscious process'). A suggested answer is that rapid return of manas (swift alternations of attention) may meet the case: but this is rejected on the ground that recollection may be a protracted process. But the truth is that manas always functions within the body (antah sariravyttitoūd manasah-NS III ii 26). Life itself, as Vatsyăyana says (ad loc.) is the contact of manas with embodied soul - and there can be no question of the manas going outside the body. It might also be asked: what sends it outside the body and directs it to a particular 'place' in the soul? If the soul directs the attention, then the soul knows already and there is no need of attention! And yet it cannot be by chance that attention hits the mark : nor yet can manas, the organ of attention itself know where to go-for it is not the knower (the soul is the knower) : and so it seems impossible to suppose a specific mode of contact between manas and
soul (See NS III.n.31-ātmapreraṇayadụcchäjnatābhiś ca na samyogavisesah.). But this line of objection $1 s$ set aside by the sütra, because it proves too much : for when a man's attention is concentrated on something else and he hurts his foot, his attention returns to his body and he is conscious of the hurt: but the objection just urged as to impossibility of directed attention would apply to this case, which is an unquestionable fact: and therefore that objection cannot be valid. (NS III.in.32-vyāsalftamanasah pādavyathanena samyogavisesena samānam-It is the same as the specrfic contact of manas with àtman which comes about through injury to the foot of a man whose attention is absorbed.)

The reason why we do not remember everything at once is that, besides the contact of manas and atman and the existence of traces of past experience there are other conditions of recollection . namely, concentration (pranidhāna), and apprehension of associates of various kinds. These other conditions not being permanent but occasional, different recollections arise at different times. (NS III. ii 33-pranıdhānalìngādìñ̄nānā̀m ayugapadbhāvād ayugapatsmaranam.)

No attempt is made to reduce 'association' to laws, but sūtra 42 enumerates twenty-two conditions ${ }^{1}$ of recall, namely : concentration, context, repetition; signs (class1fied by Vātsyăyana as fourfold-the conjomed, as smoke is the mark of fire : the resident, as horns are the mark of a cow : the co-resident, as hand is the mark of foot, both being co-resident in the body : and the opposite, as the non-existent of the existent); marks, as a brand or

[^119]an anmal makes us think of its stable; likeness, as a picture reminds us of a man; possession, as property reminds us of the owner and vice rersa; dependence, as leader and follower; immediate sequence, as in things which are to be done (each step reminds one of the next to be taken); separation, which makes a man think of the person from whom he is separated; unity of function, as one man who does anything makes us think of another who does the same thing; enmity, as of two rivals one reminds us of the other; excess, which reminds us of that by which the excess is generated (Vātsyāyana gives no illustration, and it is not clear what he has in mind); acquisttion, which reminds us of the source from which the thing has been got; covering, as a scabbard reminds us of a sword; pleasure-pain, which reminds us of their causes; desire and aversion, for a man recollects what he likes or dislike; fear, which makes us think of the source of the fear; suppliancy reminds us of things supplicated, such as food or clothing; action, as a chariot reminds us of the charioteer; love, for a man thinks of the woman he loves; merit and demert, for as the result of merit there is memory of another birth and in this life retention of what has been read or heard; and as the result of demerit a man remembers the instruments of previously experienced pain (the explanation of this last rubric remains obscure).

The enumeration is interesting. It contains at least three different classes of 'conditions of recall', viz.-(1) concentration, context, and repetition. Concentration is defined as the application of attention (manaso dhäranam) through desire to remember; or, thinking of the marks of the thing to be remembered (susmūrọitalingacintanam). Context is the connection of topics in a single passage. Repetition means a mental disposition or trace which is produced by repetition and is a quality of the soul (abhyāsajanitah sà̀skãra ātmagunah).
(2) Associated objects. The single head linga, in its fourfold meaning as interpreted by Vātsyāyana will cover some at least of the other cases of association. Most of the cases would be classed as 'association by contiguity' in popular psychology. But 'likeness', and some cases of recall by 'similarity of function' would come under 'association by similarity.' 'Context' might be classed here under the general head of 'contiguous association', but implies a 'mental set' or attitude which makes it a class apart.
(3) Moods or emotions or sentiments or feelings of the subject. Pleasure-pain, desire-aversion, fear, love obviously belong here. 'Separation' and 'suppliancy,' perhaps, as implying emotıonal moods which facilitate recall, are related to this head.
'Immedsate sequence' implies conative unity, which relates it to 'context' and 'concentration'. 'Repetition' really belongs to a class apart, as being a condition of retention rather than an occasion of recall and the mythological rubric of 'merit-demerit' (which would stand for inherited and instinctive disposition, in modern phraseology) should go along with 'repetition'.

## CHAPTER III

## INFERENCE

atha tatpūrvakaị่ trividham anumānaìn, pūrvavac cheṣavat sāmanyato drṣtam ca

## tad idam hetūdāharaṇayoh sāmarthyaim paramasūkṣmam duḥhhabodham paṇịtarūpavedanīyam

The genersl natare, and the variaties, of inferenv-The nydya, cr demonstrative method-The formulation of the syllogism, snd the functions of ats members-The canon of syllogism, or trairlapya-Clasgificstion of fallecious middle terms-Fsllacious proposition, snd fallacious exemplficationSyllogistic The wheel of ressons, or nue vald and invalid types of syllogism-Syllogistic, continued Purely positive and purely negative types of syllogism- Iddyotakara's criticism of the meterpretation of the trasripya by the help of 'avadhdrana's '-Väcaspatı Mı́ra's criticısm of Dharmakirti's doctrine of the 'samucciyamanāpadhärana'.

## SECTION 1 NATURE AND VARIETIES OF INFERENCE

The earliest Indian formulation of inference which has survived is probably that contained in the Vaisesika Sūtra ${ }^{1}$. Inference is there defined as laingikam jnānam, 'knowledge from a mark or sign'. This inferential mark -middle term-is of two kinds; drsṭam lingam on the one hand; and adrṣtam or sāmānyato drṣtam lingam on the other hand. The 'mark' functions inferentially in virtue of certain real relations in which things stand to each other, and which are enumerated in an aphorism of

[^120]the Vaisesika Sūtra (IX. ii.1). Very notable is the absence of all reference to the function of the example in inference, with ove dubious exception ( $V S$ IX.i..2); and the absence of any doctrine of the 'members' of the syllogism, which plays so large a part in the Nyäya Sütra. The Nyā̄a Sūtra uses the word linga, but its regular word is hetu, reason or ground. It stresses the function of the example, making inference turn on resemblance (sädharmya). And, instead of naming real relations as the basis of inference, it defines the function of the hetu through the general conception of 'probativeness' (sādhyasädhana), derived from likeness to examples (udäharaṇasādharm$y \bar{a} t)^{1}$. The doctrine of the Nyāya Sūtra probably represents a later phase of logical development than that of the Vaiseşika-sūtra : and it stands for a different way of thinking, really, although the early syncretism of the two schools has obscured the intial difference in standpoint. The Vaisesika-sūtra is interested in the inferential process as such, whereas the Nyäya is interested in demonstration; the Vaiseşıka therefore did not formulate a syllogism, which is essentially the form of argument rather than of inference; and he did not think of inference as an appeal to examples, but based it directly on the real relations of things. The Naiyäyika, on the otber hand. was from first to last a tārkika, a disputant, and therefore thought in terms of argument; with the result that he attached exaggerated importance to examples, as the instrument for confuting an adversary. Had Indian logic developed on the basis of the Vaisesila-sütra it would have been a very different thing in all probability : and perhaps it would have given a truer account of the essential nature of inference.

The real relations on which inference is based are enumerated in VS IX.ii. 1 as follows: "Knowledge

[^121]through an inferential mark is where this is (a) effect of, (b) cause of, (c) conjoined with, (d) opposed to, (e) resident in, that" (asyedam kãryam kāraṇam sam̀yogi virodhi samaväyi cetı laingıkam). But there are clearly recognised two different kinds of the inference based on these real relations, according as the 'mark' is 'seen' or 'unseen' (the latter case is commonly described as 'seen from likeness'). These two types of inference (drṣtalinga and adrsțalingga or sāmānyato drsṭalinga) are referred to in numerous sūtras (e.g. II.i.8, 10, 15, 16; III. it. 6,7 ) : and the principal examples of the application of the latter type of inference are the arguments proving the existence of a soul as the substrate of the psychical qualities and the existence of wind as the substrate of hotcold touch. These are two of the nine substances (dravya) which the svstem recognises. They are both imperceptible, although their qualities are perceptible: and therefore therr existence has to be established by an inference. But plainly it will not be an inference of the ordmary kind which establishes the imperceptible $\cdot$ and hence the necessity of admitting a aperial type of inference for the murpose.

Tins twofold division of inference is found also in other early schools, and may have been borrowed by them from the Valsesiha. Sabara in his Bhäsya ${ }^{1}$ on the Mímàmsō says " Inference is of two kinds • that in which the relation has been experienced in perception (pratyakṣato-drṣtasambandha), and that in which it is experienced from likeness (sāmānnjato-drstasambandha) '".

[^122]As an example of the former class Sabara gives the inference from smoke to fire: as an example of the latter the inference that the sun moves from the fact that it changes its place, on the basss of the experience that change of place on the part of a person is always preceded by movement (Devadattasya gatipurvikā̀ ${ }^{2}$ deśāntaraprāptim upalabhya) Vātsyāyana gives the same illustration of samanyato drstta inference ${ }^{2}$. The point of the example is that the movement of the heavenly bodies is a thing beyond direct experience. But the original applıcation of this type of inference is to something which transcends experience in a completer sense than this: and the Sämkhya Kärika (verses 5 \& 6) is nearer to the original doctrine when it says sāmānyatas tu drsṭād atīndriyänämं pratīter anumanāt " knowledge of things beyond the senses comes from sänānyato-dṛsta inference '". Gaudapäda 18 giving the right illustration when he says that the existence of prakrti and puruṣa is thus inferred.

The distnetion then was originally a very real and mportant one. The Vaiseşika-sūtra notes as a peculiarity of the sämänyato-drsṭa type that it does not lead to a definite or specific conclusion-sämānyato drșt̄̄c cāvisescah ${ }^{2}$-and this is perhaps the reason for the name

[^123]given to it, partly. From psychical qualities you can infer the existence of $a$ substrate: and you can adduce scriptural authority for saying that the 'soul' is this substrate: but the inference in itself tells you nothing as to the precise nature of this substrate, which, as thus inferred, remains quite indeterminate ${ }^{1}$.

The distinction as thus understood is preserved intact by Vātsyāyana in one of the explanations which he offers of the term sāmānyato-diṣta in NS I.i 5 ; though it remains doubtful whether this was the real meaning of the sütra. As an illustration of this sense of the term he gives the argument from psychical qualities to the existence of soul. His analysis of this kind of mference is worth quoting. " sāmānyato drsṭtam näma yaträpratyakse lingaling znoh sambandhe kenacid arthena lingasya sāmānyād apratyakṣo linggĩ gamyate, yathecchādibhir ātmā. ucchādayo gunāh, gunā̄s ca dravyasam̀sthānäh tad yad eṣā̀m sthānam, sa ātmeti." " The sämänyato drc̣!a inference is where, the relation between the Mark and the Subject not being percerved, an unperce:ved Subject is inferred from the likeness of the Mark to something ${ }^{2}$ : as the Soul is inferred through deare and the like. Desire and the like are qualities; and qualities are grounded in substances. That

[^124][^125]which is the ground of these qualities of desire and the like, is the Soul '".

The fifth aphorism of the Nyāya-sūtra substitutes a threefold division of inference for the twofold division which we have just been considering : and the meaning of the terms which it uses-pūrvavat, scesavat, and sämänyato drşta was already obscure to Vātswēyana, whe rives alternative explanations of them ${ }^{1}$. If conjecture is permissible, it may be suggested that sāmānyato drstta meant for the sūtra-kāra just what it meant in the Vai-seṣika-sütra; and that his innovation consisted in further subdividing the other class of inference, dresta-linga, into two heads, pürravat and sesavat. As references are made in the Sütra itself ${ }^{2}$ to inference by elimination or residues or disjunction-parisesānumäna-it is possible that seçarat has this meaning: and this is one of Vätsyäyana's alternative explanations. In that case we may

[^126]accept as the original meaning of pürvarat Vātsyāyana's explanation: yathäpūrvam pratyakṣabhūtayor anyatara darśanenä'nyatarasyā’pratyakṣasyā’numānain, yathā dhūmena'gnih. 'Pūrvavat inference is where, of two perceptible objects such as have been before experienced, .the sight of one leads to the inference of the other which is not perceived; as fire is inferred through smoke " That is to say, pürvavat inference comprises normal inferences of every kind (drsṭa-linga); setting aside elıminative inferences which the sūtra-kära has found it necessary to treat as a class apart, thereby innovating on the Vaisesq$k a-s \bar{u} \cdot r a$, which either had not noted these or had not regarded them as embodying any distinct principle. For all practical purposes the sesavat form is disregarded by the Navyāyıka lımself.

The alternative explanations which Vātsyāyana offers of the three terms are that puirravat is inference from what preceded, that is from cause to effect, as when we infer that there will be ram, from clouds; seṣavat is inference from what followed, that 1 s from effect to cause, as when we infer that it has rained, from the swollen river • sämänyato dresta is as when we infer that the sun moves though we have never seen it moving, on the ground that when we see something in one place which we saw previously in another place there has always been movement preceding'.

[^127]Praśastapāda supplements the doctrines of the Vaiseṣika by those of the Nyāya, and develops new logical conceptions in his interpretations of both his sources. He accepts from the Nyäya the doctrine of the example, and develops it into a canon of inference, as will be shown later. He supplements the Varsesika notion of the linga, and of the real relations which provide the basis of inference, by taking over the Naiyāyika notion of probiltiveness; and he attempts to make this notion more definite by conceiving all inference to rest on avinäbhäva, or inseparable connection of characters. And in the light of this doctrine of inseparable connection he fixe the formula for a 'major premise', which really usurps the function of the Naiyāyzka's udāharana or statement of probatıveness derived from likeness to examples. The rest of the section deals with Praśastapäda's statements relative to the process of inference, the relation through which the inferential mark functions, and the two kinds $n^{5}$ inference.
(i) The process or 'instrument' of inference

PBh p. $205 \mathrm{l} 10 . \quad$ " The formula (vidhr) is 'Where there 18 smoke, there there is fire • and in the absence of fire smoke also does not occur'. In the case of a person who knows the connection in this way (prasiddhasamayasya), the conviction of fire arises, as the cesult of an und ubted expe"mence of smoke and as the result of remembering the accompaniment of smohe by fire (sähacaryãnusmaraṇāt)'".

The phrase prasuddhasamayasya 18 explaned by Srīdhara as prasiddhävinäbhävasya. It has been argued by Stcherbatsky that this is borrowed from llinnaiga by Praśastapāda, who has concealed or attempted to conceal his obligation by altering the phrasing ${ }^{1}$. Diñnaga's

[^128]definition, as quoted by Uddyotakara ${ }^{1}$ is nantariyakärthadarśanam tadvıdo 'numänam,-" experience of a thing as inseparably connected is the instrument of inference, for a person who knows this inseparable connection '".-But the argument that Prasastapadia borrowed his prasiddhasamayasya from Diñnāga's tudridah, would prove too much. For a precisely paral'el phrase occurs in the defintion of inference given in Sabara's Bhāsya²-anumānain jñātasambandhasya ekadesadarsanād ekadesān'are 'samnikrstée' rthe buddhih. And it would not be suggested that Sabara, or the vettikära from whom he appears to be quoting here, is concealing his borrowing of Dinnāga's tadvidah hy changing the phrase into jũätasambandhasya. It seems to have been common to the logic of the time to insert into the definition of the instrument of inference a proviso that the person drawing the inference should be aware of the relation between the terms which makes the inference possible.

The experience of smoke must be undoubted, because if you are not sure whether what you now see is smoke or mist your 'Mark' will be a fallacy of the variety desıgnated by PraḰastapāda 'tadhhāvāsuddha' NK ad loc., p. 2061.11

Sridhara points out that the instrument of the inferential conclusion is according to this passage the experience of the smoke (the moddle term) together with the memory of the unversal connection (vyapti). This he says leaves no room for the lingaparāmarśa (in the form rahnivyāpyadhumavān ayam parvatah-in this hill there is smoke-pervaded-by-fire)-which according to the teaching of Uddyotakara is the instrument of the inferential conclusion : and the statement of which is assigned as the special function of the upanaya or fourth member of

[^129]the syllogism, as distingutshed from the statement of the linga as a property of the pakşa which is commonly assigned as the function of the second member of the syllogism (paksadharmatā).-Sridhara says that the Vais ${ }^{\prime}$ sika has no use for this 'dvitiyalingaparāmarsa'; since the conclusion is made possible lingadarśanavyäptismaraṇābhyäm eva-simply through seeing the Mark and remembering the connection. He adds that the upanaya or fourth member of the syllogism does not become functionless on this account : for this member is put forward, in 'inference for another', for the purpose of conveying pakṣadharmatä-the residence of M in S-which has not been conveyed by the other members (avayavāntararr apratipäditasya paksadharmatvasya pratıpädanārtham parārthānumāne tasyopanyāsāt. NK p 206 1. 15) ${ }^{2}$.-For, on the Vaisesika view, the function of the apadesa or second member is the bare statement of the linga, and not the assertion that it belongs to the subject (pakşadhar$m a t \bar{a})^{s}$
(zi) The r-iation on whech inference is $g$ roulded PBh p. 205 l.14. "Thus the Mark is something inseparably connected with something else in every tume and place (sarvatra deśakālāvinäbhūtam itarasya lingam). The mention of the causal relation and other relations as grounds of inference in the Vavseşika Sütra (IX.ii.1) is by way of illustration and is not meant as an exhaustive statement of the grounds of inference (nudarśanärtham krtam nāvadhāranärtham) : for we find other relations besides those mentioned (used as grounds of inference). Thus when we hear the officiating priest

[^130]repeating the sacrificial formula we infer the presence of a sacrificing priest, who is concealed from view : the rising of the moon is the inferential Mark from which we infer the rise of the sea and the blooming of the lotus: and calm waters in the autumn are the Mark of the rising of the star Canopus ${ }^{1}$.
" All such cases are comprehended in the words 'asyedam', 'this is related to that', of sūtra IX.u.1, for these words refer to relation in general (not to this or that particular type of relation such as causality or identity)". asycdam kāryam̀ kāraṇaǹ samyogı virodhi samavāyi cetı laingıkam. Prasastapăda would interpret this: " Inferential knowledge arises where 'this is related to that'as effect, cause, conjoned, opposite, constitutive or innerent, etc " The view of the sütra agamst which he is arguing interprets it as meaning that the grounds of inference can be reduced to a limited number of real relathons. Now this corresponds with the view which Dinaaga and subsequent Bauddha logicians took of inference, except that they reduced the real positive relations, on wnch they supposed all inference to be grounded (apait trom inference from non-perception, anupalabdhi), to the two real relations of causality and identity (käryakäran abhāva and tādātmya), in place of the rather incohereni hist given in the Vazśsẹılka Sütra. Prasastapāda's argument here is therefore rightly connected by Sridhara with the controversy between the Bauddhas and the orthodox school as to the real nature of inseparable connecuon (avinäbhäva) and the means by which we arrive at snowledge of it (vyāptigrahopaya, to use the plirase of a

[^131]later period) ${ }^{1}$. But there is nothing to show that Praśastapãda had in view the doctrine as taught by Dińnăga. He does not mention Diñnāga's twofold classification of relations.

## (iii) The two types of inference-drsṭa and sāmänyato drş̧̣a

PBh. p. 205 1.19. " The inferential mark is of two kinds : that which is directly experienced, and that which is experienced from likeness (drṣtamin, sämannyato drştam ca). Where there is complete identity of kind between the property as known in the example, and the property as it is to be proved (prasiddhasädhyayoh) ${ }^{2}$, the inference (anumäna) is of the former kind (drsta); for instance, from the experience of just a dewlap (säsnāmātra) in nothing but a cow (gavy eva), we infer in another place also that a creature is a cow from seeing just a dewlaps ${ }^{3}$.

[^132]P. 206 I.I. 'Where there is complete difference in kind between the property as experienced and the property to be proved, the inference is from concomitance of the general nature of the property to be inferred with the general nature of the inferential mark (liñgänumeyadharmasāmānyānuvrttıto 'numā$n a m)^{1}$. and this is sāmānyato drstam.
"For example, finding from experience that the actıvity of farmers, merchants, and officials has a result (phalavattra), we infer that the activity of hermits has n result too, although we cannot point to the motive as something that has actually fallen within our experience(drṣtam prayojanam anuddiśya) "'

The distmgushing character of the samannyato $d r s t ̣ a$ argument given by Praśastapāda is that we are arguing from one sort of activity which we have experienced to another sort of activity of which we have no expersence. In the drsț̄̄numāna on the other hand we are argumg from one cow to another cow, i.e. from one thing to another thing of exactly the same sort. We have never experienced the motives of hermits' activities but we have experience of the motives of worldly men's activithes and we extend the connection between activity and motive which has been experienced in one class to other sorts of activity, in which such connection has not been experienced. The sāmänyato drsṭa inference is much more constructive or productive, much less purely reproductive or repetitive, than the drsta inference. The former is an inference to the relatively novel, while the latter deals merely with repetitions of the old. The sainãnnyato drş̣ta looks less cogent in form, but is more like real and valuable inference in fact.

[^133]P. Bh. p. 206.

The distinction between inference as a thoughtprocess in one's own mind, and that process expressed in words for communication to others, is an obvious one, and is already contained in Vātsyāyana's distinction between anumāna on the one hand, and nyāya or sädhakavākya or pañcāvayavopapannaväkya on the other hand. But in defining the avayavas, or Members of the väkya, the Sütrakāra does not keep the two things distinct, his defintions being sometimes rather defintions of aspects of the inferential process (premises in ' inference for oneself'), than defintions of those propositions (verbal expressions of premises) which alone can form part of a vākya, a probative statement. This, as we learn from Uddyotakara and Vācaspatı Miśra, exposed him to the criticism of Vasubandhu ${ }^{2}$ and these criticisms would perhaps draw attention to the necessity of makıng more explicit than Vātsyāyana had done the distinction between inference in itself and the expression of it in words. It does not seem, in the light of these considerations, that there can be any question of priority

[^134]of discovery as between Prasastapāda and Dıñnāga. Nor is it clear that there is any connection between the recognition of the distinction between svärthānumāna and parārthānumāna, and the denial of the claim of verbal testimony to be a separate source of knowledge ${ }^{1}$. It was inevitable that all schools should draw the distinction between inference in the mind and inference cxpressed in words,-whether or not thev admitted Testimony as a pramạ̄a or instrument of valid cognition.

## SECTION 2 THE 'NYAYA', OR DEMONSTRATIVE METHOI)

The formulation of the five-membered statement ${ }^{2}$ is apparently the achievement from which the Nyäya system took its name The word nyäya meant 'method': and the five-membered statement became the method for the Naıyäylka-paramo nyäyah, as Vātsyãyana calls it in the brief account of it given in his comment on the openmg sūtra'. Other ' nyāyas', or methods of debate and argument, had been prevalent in earlier schools, and Vätsyăyana himself ${ }^{4}$ speaks of certain naiyāyika's or teachers of method-for it is a mistake to take the term here in its later sense of teachers of the Nyäya systemwho reckon ten members in the 'statement' by includmg, as parts of the nethod, the desire to know, the doult, the belief in the possibility of a solution ${ }^{5}$, the purpose, and the dispelling of the doubts. The second and the fourth of thesc are enumerated among the topics or ' cate-

[^135]gories' of the Nyãya Sūtra, but not as 'avayava's' or members of the 'statement ' ${ }^{1}$. These five additional " members' are certanly phases in the psychological process of reasoning; but they have no place in a logical analysis of argument : and Vātsyāyana, in rejecting" them on the ground that they are not organic parts (ekadesa, bhäga, añga) of the probative statement (sädhakaväkya) as not being instruments in proving the thing" (asādhanam arthasya), is recognising the distinction which we should make between the properly logical and the merely psychological factors in the reasoning process.

It seems clear that the lopping off, on tins principle, of the superfluous or non-logical members of the 'nyāya' was in fact a very important achevement It marks the transition from a pre-logical to a truly logical stage of reflection upon the process of reasoning, and farrly entitles the school which took this step to be regarded as the founders of the syllogistic art in India. The earlier nyäya' was a stereotyped formula for the conduct of debate and cannot clam the name of syllogism. It was a methorlised debate rather than a formulation of the process of reasoning : and the ' logic' of the period was not logic at all, but a conventional methodology of discussion This is clear from an examination of the arguments in such works as the Kathäratthu, or from a consideration of the ten-membered 'syllogism' of the early Jaina logic as set out bv Bhadrabāhu ${ }^{4}$.

[^136]The ' nyāya' in its origin, was not a ' syllogism '; but it became such as soon as it came to be regarded as the verbal expression of an inference, as Prasastapinda and Dinnāga regarded it. According to these writers and all the later schools, the nyäya was simply the regular expression, for the information of another (parārtha), of an inference which one has drawn for oneself (svärtha-, or svaniscctāartha-, anumāna). And it is at this stage that the question begins to arise, why should inference for another have five members? It seemed obvious that ' inference for oneself ' imphed in addition to the conclusion only $t w o$ factors, corresponding to the two premises ${ }^{1}$ of the Aristotelian syllogism. What factors in inference are expressed by the other two members ${ }^{2}$ in the nyāya?

Either the hetu or the upanaya, on the one hand, and either the pratijuñ or the nagamana on the other hand, would seem to have nothing to express.

The reason why the so-called Indaan syllogasm. the pañcāvayava-väkya, had five members, is partly to he found in its history. The earlier nyäya's were not syllogisms, nor even pararthānumana, i.e., communication of inference to another. They were conventional forms of debate, and the number of the 'members' depended on the convention of a parthcular school : there was no logical reason why the number should be ten in the earher methodology . and perhaps it was not a purely logical reason which gave the nyāya five members in the Nyāya Sūtra,-rather than three. The two additional members may well have been a legacy from the earlier

[^137]methodology. It is noteworthy that the author of the Nyäya Sütra does not connect his doctrine of the 'members' with the topic of inference; and Vātsyăyana makes it plann in several passages that he concerved 'the method ' or the five-membered statement as something more than, though inclusive of, inference. Thus, in identifyng nyäyavidyä or nyāyasāstra with the änvīkşi$k i$ of the earlier literature, he asks: "What is this nyāya? Nyäya is the enquiry into things by the instruments of valid cognition (pramạnair arthaparīkṣanam nyāyah). This enquiry or anvīkṣa consists in inference relying on perception and testimony. it is the subsequent investigation (anrīkṣaṇam) into something apprehended (iksitasya) by perception and testimony. and the science which works with thns anviks $\bar{a}$ is $\bar{a} n v i \bar{i} k s i k i$ that is to say it is nyāyaridy $\bar{a}$ or nyăsāstra-the science or art of logical method ${ }^{1}$ " At a later point in the comment on this same sütra ${ }^{2}$ he attempts to identifv each of the four members of the pañcārayavavākya (excluding of course the conclusion) with one or other of the four recognised instruments of cognition, asserting that " the Proposition is testimony, the Reason is inference, the Example is perception, the Application is analogy. The Conclusion sets forth the competency or cogency of all of these acting unitedly on a angle object. This is the prime method, the 'paramanyäya' ''. -He speaks to precisely the same effect in another passage ${ }^{3}$ " In

[^138]the statement which is the aggregate of the members (i.e. in the pañcāvayavavākya) the various instruments of cognition co-operate (sambhaiya) to establish the thing, as the result of their mutual interconnection. The cooperation (sambhava) is as follows. The Proposition has a subject-matter which belongs to credible testimony (sabdavisayā pratijiñ̃ă). Owing to the fact that such testimony 18 (sometimes) opposed by perception and inference, and because the statement of anyone but an inspired seer cannot stand alone (as valid independently and in its own right), there is inference, in the form of the Reason, as the result of seeing similarity (to the present case) in an example. . . The Example has a subject-matter which belongs to perceptıon (pratyaksavisayam udāharanam), since it is by something seen that what has not been seen is established (in the inference) The Application is analogy, since it apples (the example) in the form 'so is this ' (upamãnam upanayah, tathety upasamiāāāt).

In these passages Vātsyāyana clearly treats the fivemembered statement as a method (nyāya) through which all four instruments of knowledge are brought to bear on a single object. And he clearly thinks of it as more than inference or the expression in words of inference: for the inferential element is identified with only one member, the hetu or reason.-But inference cannot be abstracted from perception, at least; and this fact is recognised in the sütrakära's definition of inference as tatpuirvaka, dependent on perception. And since the perception which it implies can hardly be confined to the present case (SM), this really implies recognition of similarity to previous examples (drṣtānta $\quad X_{M}$ )— and thus ' analogy' is also implied. Therefore, except for the element of testimony which Vātsyāyana reads into the Proposition (an indefensible position, unless we are prepared to treat the 'nyäya' as a method which is
valid only when it confirms that for which we already have authoritative testimony), an analysis of what is implied in inference, anumana, would have led to some such formulation of inference as the ' nyäya' which Vātsyäyana here treats as something more than inference. Whatever then may have been the intention of the sūtrakära, it was inevitable that the five-membered statement should be regarded as ' syllogism ', i.e. as the formulation of anumana. It is in fact in many ways an admirable formulation of that class of inference which is based on a previous induction ${ }^{1}$. But the five-membered formula was influenced by its historical origin in a ' nyāya' which was methodological rather than logical, and its structure must be regarded as in part vestigial, rather than determined by the requirements of logical analysis. Western logic might be inclined to formulate the argument from examples thus:-

1. X (the example) Y (the negative example) is M .
2. X (the example) is non-M. is P . Y (the negative example) is non-P.
3. Therefore M is necessarily P .
4. But S is M .
5. Therefore S is P .

This ' deduction combined with superficial induction ${ }^{3}$, happens to have five members; but they are not the five members of the Indian ' syllogism '; which combines the first three clauses of the above formula into a

[^139]single member, namely, the 'Example' (udāharana or nidarsana), and therefore is still left with a superfluity of two members, viz., either hetu or upanaya, and either pratijñ̄ $\bar{a}$ or nigamana. This superfluity is inherited from the time when the ' nyāya' was a method of debate and not yet a syllogism : and, in the case of the Nyäya school, the convention of five members may have been fixed (as is suggested by these passages of the Nyäya $B h a ̈ s y a)$ by a desire to equate the four 'premises' with the four pramannas.

## sECTION 3 THE SYLLOGISM, AND ITS MEMBERS

Prasastapāda's account of the 'syllogism' (parärthänumäna) and its members is as follows.

## Definition of parārthanumäna

PBh. pp. 231-252. "Inference for another is the communication, through the five-membered statement, of a thing ascertained for oneself. The communication is to persons who are in doubt or are of a contrary opinion or are ignorant; and is to be understood as taking place through the five-membered statement and in no other way $(e v a)^{1}$.

The Five 'members'
(i) Proposition
"The Members, then, are the Proposition (prati$j n \bar{a}$ ), the Reason (apadesa), the Exemplification (nidar-

[^140]sana), the Application (anusamdhāna), and the Conclusion (pratyāmnăya) ${ }^{1}$.
" Among these, the Proposition is a setting forth of a probandum ${ }^{2}$ which is not contradicted (by any instrument of knowledge). That is, it is the bare setting forth, with a view to communicating that to which the Reason applies, of a Subject as qualified by the Property the knowledge of which it 18 desired to convey (pratiplpädayis̊̀tadharmavisistasya dharminah). For example : 'Wind is a substance'
(ı) The Reason
" The Reason is the mentioning of the Mark (or middle term, M.). That which accompanies the proban$d u m^{4}$ is found in its general nature (sāmānyena) ${ }^{5}$ everywhere ${ }^{6}$ in what is like the probandum, and is always absent (asad eva,-absent only, and never present ${ }^{\text {' }}$ ) in everything opposite to the probandum, is called a Mark . and the mentioning of this is the Reason ${ }^{\text {s }}$. For example, 'because of possession of movement'"

[^141]or 'because of possession of qualities' (wind is a substance). Here the Mark is present in the probandum; is found in what is like the probandum- possession of quahties' being found in everything like the probandum, 'possession of movement' in not-all (i.e. some) things like the probandum ${ }^{1}$; and is-in both cases-always absent in that which is not substance. Therefore the mentioning of these is the Reason.
(At this point occurs the long passage dealing with Fallacious Reasons, which is translated below, p. 199.)

## (iii) The Exemplufication

" The Exemplification is of two kinds, through likeness and through unlikeness. Of these, exemplification through likeness is the showing (darsana) of the fact that the Mark, in its general character ${ }^{2}$, is constantly accompanied' by the probandum ${ }^{4}$ in 1 ts general character (anumeyasāmänyena lingasāmānyasyānuvıdhänadarśanam) : for example, 'what possesses movement is seen ${ }^{5}$ to be a substance, as an arrow ' (yat kriyāvat tad dravyam drstam y yathā sarah).
"And exemplafication through unlikeness is the showing of the absence of the Mark where there is difference from the probandum: for example, 'what is non-substance does not possess movement,-as Being (sattā)'
(The next paragraph deals with Fallacious Exemplifications, and has been translated below, p. 220.)

[^142](iv) The Application
"The Application (anusamdhana) is the bringing to bear (anvãnayana) on the Subject (anumeya) ${ }^{1}$ of the Mark, in its general nature, as seen (drṣta $)^{2}$ together with the Property (anumeya), in its general nature, in the Example. That is to say ${ }^{3}$, the Application is the statement through which is applied to the Subject the Mark, which has hitherto been mentioned as a mere property of the Subject (anumeya dharmamätratvenābhihita), so that its competency to prove the cenclusion was before unapprehended,-but in its general character (i e. in its aspect as a universal or common character) is now seen in the Example as accompanied by the Property to be proved (sädhyadharma) : 'and evem so is wind possessed of movement' (tathā ca vayuh kriyăvän iti)."

Notr.-Prasastapāda is trying to find for the fourth member of the syllogism a function distinct from that of the second, so as to justify its existence as a separate member. And his solution appears to be (though he does not yet use the term parimmïrsa), that, whereas the Reason states that S is M (pakşdharmatä, dvıtīyalǹngajñāna). the Application states that S is M -which-1s-P (parāmarśa tṛtyyalıñgajñāna).

Sridhara however gives a different explanation. He argues that the second member of the syllogism merely mentions the hetu or reason in itself, and does not state that 1 it 2 s a property of the subject-heturacanam hetusvanūpamätram kathayati, na tasya pakgadharmatäm The members of the five-membered statement are answers to the successive phases

[^143]of the hearer's ' desire to know ' (ākānk the mention of the thing to be proved the hearer first desires to know what the instrument of proof is (sädhane bhavaty $\bar{i} k \bar{a} n \bar{n} k \bar{\beta} \overline{)}$. and this desire is satisfied by bare mention of the middle term. When the middle term or reason 18 known the hearer desires to know what constitates it a middle term or reason, 1.e. he desires to know ats cogency or competency (saimarthyajijnäsa) : and this is satisfied by (a) the statement of inseparable concomitance (avinäbhäva) in the third member; and then-in response to a further phase of the hearer's desire to knowby (b) a statement, in the fourth member, that S is M -which-18-P. The latter statement constitutes the paksadharmatä, accordung to Sridhara - so that he denies the necessity of pakşadhurmatã in the usual sense ( S 1s M ), and identifies paksadharmatā with what Uddyotakara calls parāmarśs ${ }^{1}$.

[^144]Prasastapàda's statement that in the second member of the syllogism) " the competency of the reason to prove the conclusion is as yet unapprehended " is brought into line with this account by saying that this compentency consists in (a) positive and negative concomitance, and (b) 'pakgadharmatä '-the competency is then unapprehended in the second member because the two elements are stated subsequently in the third and fourth members

Thas account is perhaps rendered plausible only by the fact that in Sansknt the second premise (the Reason) 18 stated in a single word, instead of in a clause as in Englishthe causal ablative of an abstract noun taking the place of a causal clause If we substitute for the word kryāarattoāt the clause 'because it possesses movement', it becomes obvious that the 'bare mention of the middle term' is in fact impos-sible,-we cannot mention it without referring it to the Subject : that is to say the statement of the reason 18 necessarily at the same time a statement of ' paksadharmatä'. 1 e. a statement that S is $\mathrm{M}^{1}$.-Sridhara's position is impossible simply because a member of the syllogism must be a proposition. He quotes, however the authonty of the Nyäyabhäçya in support of his account (NBh p. 44117 asats hetau kasya sädhanabhāvah pradarsyate ${ }^{2}$. NK $p 250123$ )

[^145]
## Negative form of application

" And, after grasping the absence of this (i.e. of the Mark) where the Property is absent, we say-' and wind is not thus not-possessed-of-movement' "'?

## (o) The Conclusion

"The Conclusion' is the re-assertion of the Proposition for the purpose of producing certitude in others about a Property which has been enunciated as the property to be proved but which was before (when first enunciated in the Proposition) uncertain'. That is
cabou, the fanction of which he dociares to be 'the atalemant that the probase readee in the ame lorua with the probandum. (atidhanabhífurya dharmasy sidhyena tharnsana edmduddhineranyapapidanam mpanaydilich NBh p is 1 1)

It munt be admitind howover that the peamgo at $p$ it premanta difieniltion The contenco sadive prathaydhdpa dhermam indharone at proliasudhdyo karya adhanalisoacamam hetuk ('the roason is the assartion of the probativesene of a property (M) after jowning it with the anbject (B) and the oramplo ') ceame to mply an invartion of the order of proinsmes the trio order boing gran in the parattel peasago at P 14 II 16-17 ajah kelau kasya sddhanashdoas pradaplyata udiharams. sbdhge co hasyoparainhisrab syil? 'Without the Ritatement of the Reseon there wrould be nolhing of which the probativesesa is eot forth in the orsmaple, nothing whith is appliad to the oubjoct :. I enpposa the oxplapation is that VILsigiyana bere roalinea that 'probstivenese' logurally presupposen that $S$ is MP and that XP's ard M eltbongh in the statoment of the aylogiam ' these two prosolvot are postartior to the atatoment of the reamon

At p. 4917 he shys thet the hetu also has cwoo fome sy well se the uddharana and tho upanaya (doioudhenya punar hador devesilhanga oo-
 utpattuiharmakstest, is the same in form, whothar it bo sdharmyokta or saidharmyokla. Bat is ite maya it is taofold. As amiler to or diffarent from the example (cl. NBh p 46 1. 2 adoharanenc aminacya oiperifatiga ad. AShakabhacerocanam hetub) The lstiez ceace corirapanda to an Anstotelian syllogiam in which the minor in of the oppotite 'quatity' to the majne premiac-(ace Notc on the Indian Sylloginm, $p$ 899 frotnot. S)
ipratydmindy Tho vorb prafydmind-bal the mesiniog of revitiog or repeating after some oue elac (K.W) Aridhars's gloses it addiyadher. marya dharmsp pratydmndyah. pratydoptyabhldhandm yona oacanan kryato tat pratydmadyah, ie it it the propoeation in which we conse back to the masortion of $P$ sal reading in S .
"prochamam adithyan abhthtam, ne ta ian nuentap protiyndmitrava, sddiyanddher abhsodt. Tenpopedardits helau, kethite ea ketoh asmarthye. nuscayaf pratydmasyona knyate (Brialera) Tho pratajnd is the Groek problema, the pratyomndya is tho sumperame Tho Proposition reappati an E Concluason after the Besson has been meothoned in the second Momber and after sta cogapoy (asmorthga) bas bean aet forth in the Thurd and Yourth Membert-hatadharagopandyair hetos trargpye darfite NE p. 958 1. 19).
to say, ${ }^{1}$ the Conclusion is the re-assertion of the Proposition for the purpose of producing through a completed syllogism (parisamaptena väkyena) certitude about what has been enunciated as the property of which knowledgeis to be conveyed, but which was before uncertain, in the minds of others who have now, through the Statement of the Reason and through the other Members of the syllogism, grasped its cogency (pareṣäm hetvädibhir $\bar{a} h$ htasaktinām) ${ }^{2}$. The Conclusion is in the form 'Therefore it must be a substance' (tasmäd dravyam eva). (It is an essential member of the syllogism) because, if it is absent, the other members-whether collectively or separately-do not convey its meaning (tadarthavācakatvam nāsti) ${ }^{\mathbf{3}}$.
${ }^{1}$ thure suo, he glosses his own words. See above, p 170 n 3.
${ }^{2}$ Sridhara glowses by hetudaharanopanayasr avayavair hetos trasrūpye dar\&ite samifatdnumeyapratipattisdmarthydndm. But Prásetapada may have meant by sakts the psychological tendencies or potencies produced by the premises-" who have now formed the mental dispositions necessary for the reception of the conclusion as a conclusion ".
${ }^{3}$ Each member has a separate meaning or force (artha) which it is its peruhar purpose or function (artha) to convey No member can pei form another member's function. The function of each member terminatea in the expression of its own meaning-pratindadayo vayaval pratycham sodrthamatrena paryavasäyinah Without the Conclusion they cannot con vey the unitary meaning which belongs to the syllogism as a whole But when the Conclusion is added, the various members, assisted by the felt uncompleteness of the sense, and achieving a relstion as of parts to a whole. become sble to convey the unitary meaning-asati pratydmindye natkam artham pratyāytum idate, soatantrateãt sate to otasmin, āhinḩ̧opagrhitch angăngibhdøam upagacchantaļ saknuvants. (NK p. 25211 16-19).

The diffloulty of assigning a soparate function to the Conclusion, parsllel to the functious asbigned to the premses ; comes out clearly in this discussion. For after sll he has to sdmit that it is the premises which, in addition to their separate functions, somehow also achieve the function of conveying the unitary meaning. And he does not make it clear how the Conclusion helpe them to acquare this, so to say additional, function Nor does the Conclusion seem to have any special function, since it is after all the promises that convey the 'unitary mesning'. (It is with this latter objection that Prabeatapeds deals in the next sentence )

Vatsyeyans says - "nagamana has the force of nigamyante anena. that 18 to say, the four other members-Proposition, Reason, Exemplification, and Appicestion-' nsgamyante anena ekatra' 'are made thereby to come: into one point '. Nigamyante means samarthyante, ' are made spplicable or 'have therr functions brought together': $r$ else sambadhyante, 'are.


#### Abstract

" The objection that the Conclusion need not be stated because its purport is already conveyed by the premises proves too much : for on these grounds it might be held that only the Reason is to be stated after the Proposition, since people of understanding will grasp the purport of it from remembering the positive and negative concomitances (of the reason with the property to be proved). Therefore it is only with the Fifth Member on Conclusion that the meaning of the syllogism attains completion (tasmād atraivārthaparisamāptih). ${ }^{1,}$


#### Abstract

brought into unity " ${ }^{\text {" }}$ In other words, the Conclusion 18 the expression of the unity of the premises ( $N B h$ p 44 II 2-8) Later on, however, he has a phrase oiparitaprasangapratięedhärtham nigamanam ( $\mathrm{p} \quad 45 \quad 1 \quad 5$ ), which seems to bo the gerin of the apectal function later asaigned to the Conclusion,-that of denying satpratipahsatoa and bdihstavifayanton. ${ }^{1}$ Sridhars represents the objector as holding that the aggregate of conditions which produce knowledge are the aame in inference for another as in inference for oneself, the only difference being that in the latter this set of conditions in applied by oneself, whle in the former it is commameated by another In both cases this set of conditions, viz, the Mark possessed of residence in the Subject and positive and negative concomitance with the Property (pahnarharmatänvayavyatırehopuapannam lingam), leads to the inferential knowledge. What need then of stating the Conclusion?

He represents Prasastapāds as replying that it 13 the cogoncy of the Mark, and not the thing to be proved, that it communicated in the fivemembered statement Now this cogency of the Mark does not consist mercly in residence in the subject snd in universality of concomitance proved by exemples (nc tasya samarthyam bahiroyāptipakęcdharmatämätram) for uven when these conditions are satisfied an inference may be neutralised by an equally cogent countar-mference (satpratipakpa) or sublated (bddhita) by some other instrument of cognition The cogency of the Mark then implies. further that it deals with a subject-matter which is neither 'neutralised nor 'sublsted' (abadhtavifayatvam asatpratıpaksatvam api samarthyam). The use of the Conclusion then is in declaring that the reason is competent to establish the Property because the sasertion of its cogency has been made after the sbsence of neutralisation of sublstion has been sscertamed. (Thus classical Naryayzka teaching of the paficaruipopapanna hetu 25. I thin's, not to be found in Prasastapada The artificiality of finding a function for the conclusion by sssigning to it the busmess of asserting that in this case the conclusion is true, 18 obvious and the assertion can only be an tpse ducit-though Sridhera speaks of the conclusion as setting fortin. 'pupartiapramäpābhavagrāhakam pramdnam'.)


As to the suggestion that the hearer may be left to supply one or more premises, Sridhars replies (1) thist 'inference for another' is not sddresned to the instracted, and (9) the form of the 'syllogam ' cannot be settled in scoordance with the degree of underatanding of the peraon sddressed : far, on account of the dufficulty of getting at other people's mental processes.

Praśastapäda's syllogism.-Collecting the illustrations of the various Members as given above we have the -syllogism :-

Postive Form.

1. Wind is a substance. dravyam vayuh

2 Because of the possession of movement. kryyüvattvăt.
3. What is possessed of movement is found to be substance : as an arrox Yat kryyüvat tad dravyam drstam: yathă barah.
4. And even so is wind possessed of movement. Tathā ca väyuh krıyävān.
5. Therefore it must be a substance Tasnū̄ dravyam eva.

Negatıve Form

What is not substance is not possessed of movement as Being. Yad adravyam tat krıyivan na bhavatı. yathä sattā

And not so 18 wind not-posses-sed-of-movement Na ca tathä vayur nıskrıyah

This formulation differs from that of Vātsyāyana in the statement of the positive and negative concomitances in the Exemplification with (as western logic would say) the order of the terms fixed and the subject distributed; so as to avord (what western logic would call) an undistributed middle in the positive syllogism and an illicit process of the major in the negative syllogism. This

[^146]' vidhi' or fixed formula for the Third Member is characteristic of the logic in which avinäbhāva and the trairupya were the leading conceptions. But these conceptions are forengn to Vātsyāyana's logic, and his Exemplification has not crystallised into a major premise. He states his syllogism thus :-

> Vätsyäyana's syllogism.

Postive Form

1. Sound is transitory anstyah sabdah.
2. Because of having the character of being orignated. utpattudharmakatnät.

3 Substances like pots which have the character of being originated are transitory. utpattidharmakam sthalyädi dravyam anityam.

4 And even so has sound the character of being orignated. tathä cotpattidharmakah sabdah

Negative Form.

Substances like soul which havenot the character of being originated are eternal. anutpattedharmakam ätmädt dravyam nityam drsṭam.

And not so 18 sound a thing which has not the character of being onginated. $n a c a$ tathānutpattidharmakah sabdah.
5. Therefore, because of having the eliaracter of being originated, sound is transitory. tasmed utpattidharmakatavīd antyah sabdah.

It has been suggested ${ }^{1}$ with some plausibility that the tath $\overline{\boldsymbol{a}}$, 'so', of the Fourth Member was originally correlative to yath $\bar{a}$, ' as ', in the Third Member, and that the latter member was in form originally what it -always remained in name, an Exemplification: the inference being formally an argument 'from particular to particular,' e.g.-

1. The hill is fiery,
2. Because it is smoky :
3. As the hearth is smoky and fiery,

4 So is the hill smoky, and
5. Therefore fiery.

This formulation of the syllogism is not however to be found in any logical work. But something like it is found in the curious interlude on logic which is inserted in Caraka's system ${ }^{2}$ of medicine. The example ${ }^{3}$ of syllogism there given 18 :-nityah purusa iti pratijūā; hetur akrṭakatväd iti; drṣstāntah akrtakam äkābam tac ca nityam; upanayo yathā cākrtakam ākāasam tathä purussah; nigamanam tasmãn nitya iti.

## Caraka's Syllogism.

1. Man is eternal :
2. Because he is not a product :
3. Ether is not a product, and it is eternal :
4. And, as ether is not a product, so man :
5. Therefore he is eternal.

Perbaps this gives us the explanation of the $c a$ in the Fourth Member; which seems to have been a primitive part of the formulation of that member ${ }^{4}$.

[^147]It has been said ${ }^{1}$ that for Vātsyāyana inference was still really argument from analogy.- It is true that Vātayäyana's logic is more primitive than Prasastapāda's. He never attempts to lay down ' Canons of Syllogism ' as a criterion by which a genuine reason is to be distinguished from a mere appearance of a reason : this was left for Praśastapāda or for some predecessor of Prasastapāda, ${ }^{3}$ and it marks a very important development ${ }^{3}$ in logical theory. But at the same time Vātsyäyana is emphatic in drawing the distinction between argument from mere similarity or difference, and argument from that sort of similarity or difference which alone, as proving the Property to be proved, can be called a 'reason' (hetu). The function of the Reason as Member of the Syllogism is (he says) to state a relation of probans and probandum ( $s \bar{a} d h y a s a ̈ d h a n a b h a ̃ v a$ ) as subsisting between the Property to be proved (P) and a character (M) which the Subject (S) shares with the positive examples or in respect of which it differs from the negative example: while the function of the Exemplification (udāharana or Third Member) is to show forth the probans-probandum relation as subsistıng between the two qualities ( $M$ and $P$ ) in one instance ${ }^{4}$. The difference between sophistry and reasoning is just this, that the sophist opposes true reasonings by arguments based on arbitrarily chosen likenesses and differ-

[^148]ences without having established in his example the existence of such a relstion of probans-probandum between the two properties ( M and P$)^{1}$ : whereas a genuine reason is a property probative of what has to be proved (sädhanabhütadharma) and not a mere similarity or a mere difference (sädharmyamātra, vaidharmyamätra). Indeed the leading motıve of Vātsyāyana's logıc might be sadd to be the assertion of the distinction between the true reason, as probative, and the sophıstical reason ( $j \bar{a} t i$ ) based on mere fortuitous similarity and difference ${ }^{2}$

SECTION 4. TRAIRUPYA AS THE CANON OF RYLLOGISM

## Praśastapāda's Bhạsya, page 200

Inferential knowledge is called laingikam jñānam, which, as the name implies, is the knowledge which arises from experience of a ' mark ' (linga) which serves as the middle term or reason to establish the conclusion. The mark which brings about an inference (lingam anumāpakam) is characterised in the following verses cited by Prasastapãda -
yad anumeyena sambaddham prasiddham ca tadanrite tadabhāve ca nästy eva, tal lingam anumāpakam viparītam ato yat syād ekena dvitayena vā viruddhāsiddhasà̀digham alingam Kāşyapo'bravīt.

[^149]" What is conjoined with the probandum, and has been found in what possesses the probandum, and is always absent in its absence, is the mark which brings about inference. What differs from this in one or in a pair of these respects is no ' mark ', being either contradictory, unreal, or doultful. Thus sald the son of Kasyapa

The 'son of Kasyapa' is presumably intended to be Kaṇāda, the author of the Vaiseşika Sūtra but there is no authority in the Sūtra for attributing to him the doctrine of the Trairuppya, or three characters of the valid middle term, which is expounded and attributed to him in these verses Nor is there any indication of the source from which Praśastapäda cites the verses

A similar doctrine is expounded by Dinnāga in the line from his Pramạ̄asamuccaya cited by Uddyotakara and by Vācaspati Miśra ${ }^{1}$
anumeye 'tha tattulye sadbhāvo nāstita' sati.
' 'existence in the probandum, and in what is like the probandum, absence in what is not (like the probandum)" In the schools language of a later age ${ }^{2}$ this becomes anumeye sattvam eva: sapaksa eva sattvam asapakse cäsattvam eva.- "The three characters of the mark (trairūpyaì lingasya) are existence only (never nonexistence) in the Subject or thing denoted by the minor term; existence in things which resemble the Subject only (never in things which do not resemble the Subject. i.e. in 'vipakşas'), and only non-existence (never existence) in things which do not resemble the subject." The resemblance to the subject which is intended is of course resemblance to the Subject of the inference in respect

[^150]of that which constitutes it the subject of inference-i.e. resemblance in respect of possessing the anumeyadharma, the major term, P . The meaning of the three conditions then is, according to the commentators - -

1. The mark or middle term must be present and never absent in the Subject of the inference, i.e the minor term.-S must be $M$.
2. The middle term must be found only in things known to have the property P.-
Only XP's are M (not necessarily all XP's).
3. The middle term must be only absent (never present) in things in which the property $\mathrm{P}_{18}$ known to be absent-

> All Xnon-P's must be non-M. i.e. No Xnon-P's may be M .

The difficulties which arise in connection with the formulation of the three canons by the help of the restrictive particle eva, ' only ', were insisted on by Uddyotakara ${ }^{1}$. For the present it is sufficient to point out that the trairupya, even as thus interpreted, makes the syllogism essentially an affair of examples,-sapaksas or concrete cases of P , and vipakṣas or concrete cases of the absence of $P$ : and that there is nowhere to be found in it a statement of universal connection between M and P as abstract characters. The 'canons' amount to this, that if you can point to cases in which M is P (sapakṣa), and your opponent cannot point to any case of non-P (vipaksa) in which M is found (all adduced cases of nonP being non-M), then your middle term is valid. On such a view of inference it is necessary that there should be concrete examples. And this tradition of the necessity of actual concrete cases continued even after the trairüpya

[^151]had in fact changed its meaning: so that the second and third canons still retained the implication that there must be sapakṣas and vipakṣas, and the habit of quoting 'examples ' in the ' major premise ' (accordingly called always by a name which implies exemplification,-udāharana or nedarsana) became ingrained in the Indian logician.

The trairupya however began to lose its simple character as a statement of the rules of argument from example as soon as the restrictive particle eva began to appear in the interpretation or formulation of the second and third canons : as for example it does in the third canon in the lines cited by Praśastapāda. You are no longer content to adduce non-P's which are non-M in support of your M's which are P. You take the very significant step of asserting that non-P's are only to be found in the absence of M. The intention of the 'only' may have been quite innocent in the first instance. "My opponent does not adduce a case of non-P which is M. But he would if he could. Ergo he cannot." From which it is a natural, though not a necessary, step to 'Non-P's cannot be M'". But that is the same as saying that only P's can be M. And so the 'only' must find its way into the second canon also, as soon as it has appeared in the third. The trairupya has now assumed the form in which the Nyäyabindu formulates it: open to the obvious criticism that the insertion of the ' only ' into both clauses makes both clauses say exactly the same thing, viz., that M cannot be non-P.

Moreover, exsmples as such do not show that M cannot be non-P (avinābhävaniyama)-all that the examples show is that M as a matter of fact has been found ( $d \tau s+a$ ) to be P , and that non-P has as a matter of fact been found to be non-M.-Examples cannot prove an 'only' in any other sense than in the sense of invariable experience (bhūyodarśana), which will always be exposed to the danger of a contradictory experience.

How a really universal connection could be arrived at was a difficult question, in connection with which is sometimes cited ${ }^{1}$ this couplet from a Buddhist writer ${ }^{2} k a ̄ r y a k a ̄ r a n ̣ a b h a ̄ v a ̄ d ~ v a ̈ ~ s v a b h a ̄ v a ̄ d ~ v a ~ n i y a ̈ m a k a ̆ t ~ a v i-~$ näbhãvaniyamo, ' darśanān na, na darśanāt. "A rule of inseparable connection arises from a necessitating causal relation or identity of nature; not from negative experience, nor yet from positive experience'. You may doubt the inseparability of a connection asserted merely on the bass of frequent experience (bhiuyodarsana) - but you cannot doubt a connection whinch rests in the causaI relation (tadutpattı) or identity (tädātmya): for the demal of these relations is self-contradictory: and, according to the maxim later formulated by Udayana. ${ }^{3}$ vyäghätūvadhir ākañkत̄-self-contradıction sets bounds to doubt.

But, whatever solution may be offered of the problem of the justification of an assertion of inseparable connec-tion-the assertion that M ' s not without' P (avinābhūta, avinäbhā$r a$ )-, the necessity of an explicit assertion of such inseparable connection in the trairūpya must have become plain, as soon as Vātsyāyana's innocent formulation of the udāharaṇa ${ }^{4}$ was exchanged for the sophisticated 'vidhi' or statement of principles which had the

[^152]effect of turning the udäharana or nidurśana into what we should call a ' major premise '.

In what has been said so far the later interpretation of the first clause of the trairūpya has been followed, according to which the first clause lays down the requirement of paksadharmatä, i.e. states that S must be M (and not that M must be P, which would be the form taken by an assertion of avinäbhära). But reasons a prior have been given which would supply a motive for interpreting the first clause in the sense of a statement that M must be P . And, in view of the constant ambiguity in the use by the early schools of the term translated probandum-sādhya or anumeya ${ }^{1}$-there is nothing to prevent our assigning either sense to the word anumeya in Dınnāga's and Prakastapāda's statement of the first clause. Keith mantains ${ }^{2}$ that Dinnāga meant by his first clause that $S$ must be $M$, whle Praśastapāda meant by it that $M$ must be $P$. His first argument for this interpretation of Dinnäga's meaning,-namely, that the Nyäyabindu interprets it so-, may be set aside. Later commentators always interpret older writers in the light of the noions prevalent in their own time and the same argument would also prove that Praśastapāda's first clause means that S must be P ; because in his case also the later commentator, Sridhara, says plainly that he meant this ${ }^{3}$. But we can safely ignore here the interpretations which Dharmakirtı and Srídhara give of Dınnāga

[^153]and Prasastapāda respectively.-Another argument which Keith uses is however a real difficulty for those who, like Sridhara, interpret Praśastapāda's anumeyena to mean anumeyadharmina. The argument is that in the second clause tadanvite must mean anumeyadharmannvite : and if tad means anumeyadharma here, then anumeya in the first clause (which is denoted by tad here) must also mean anumeyadharma ${ }^{2}$. The same reasoning could be used (though Keith does not make this application of the argument) to prove that Dinnāga must have meant by anumeya the minor term, anumeyadharmin; because tattulya clearly means 'like the subject, or minor term'. -

[^154]But as a matter of fact Praśastapāda humself in another passage ${ }^{1}$ uses the term tatsamanajātīya, 一which is of course synonymous with Dinnäga's tattulya. And in the light of this passage the argument from tadanvite seems to lose the weight which otherwise one would be inclined to allow it. So far as these arguments go then, there is no reason to suppose that Dinnāga meant by his anumeye sadbhävah something different from the meaning which Praśastapāda attached to the phrase anumeyena sambaddham : nor 18 there, in these arguments, any proof of what meaning the two authors $d v d$ attach to these phrases.

Turning to Prasastapāda's explanation ${ }^{2}$ of the plrase anumeyena sambaddham, and to various other passages ${ }^{3}$ in his Bhäsya which connect with this topic, we find that while his explanation supports the interpretation of anumeyena sambaddham as a statement that $S$ 1s M (paksadharmatā"), the other passages make it sufficiently clear that his logic embodies a doctrine of universal connection between abstract ' terms, ' M and P (anumeyasämānya, lingasāmānya), for which the trairūpya seems to find no place when its first clause is interpreted as a statement that S must be M. The explanatory passage runs: yad anumeyenārthena deśaviseṣe kālaviśeṣe vā sahacaritam, anumeyadharmānette cānyatra sarvasmın ekadeśe vā prasiddham, anumeyaviparīte ca sarvasmin pramānato 'sad eva, tad aprasiddhärthasyānumäpakam lingam bhavatīti. "That which at any particular

[^155]place or at any particular time is concomitant with the probandum-thing; whach elsewhere also is known to exist in things possessing the quality which is to be proved, whether existing in all such things (i.e. sapaksas, XP's) or only in some of them; and which is known from some valid instrument of knowledge to be only absent (and never present) in everything that is different from the probandum:-this is the mark which enables us to infer something not (otherwise) known." ${ }^{1}$

Taking the language of thes passage at its obvious value, we should surely not hesitate to interpret Praśastapãda as meaning that anumeyena sambaddham is an assertion that S must be M. The word anyatra 18 glossed 'sapakse' by Sridhara and seems clearly to imply that the first clause has had a reference to something other than the sapaksa's-and this something other than the sapakşa can only be the pakṣa. Moreover the phrases deśaviseṣe kälavisesese $v \bar{a}$ seem to be altogether inappropriate to the statement of a universal concomitance, but appropriate to a statement that this or that particular S is M.

I believe that the traurūpya was a legacy inherited by Praśastapāda and Diñnāga from an earler phase of

[^156]logical reflection : and that it could not from its very nature adequately express the universal connection in which they both found the principle of inference ${ }^{1}$. It is possibly a mistake to suppose that they tried to read a statement of universal connection into the first. member of the trairüpya. Is it not more likely that, since they made the nidarsana the vehicle of the statement of the universal connection, they would attempt to find the statement of the necessity of a unversal connection in the second and third clauses of the trarrupya, which are obviously concerned with the nidarsana?

## SECTION 5 CLASSIFICATION OF FALLACIOUS MIDIDLE TERMS

## Twofold classification of the Vasseşıka Sütra

PBh. p. 204. Praśastapãda devotes a brief paraand pp. 238-9. graph to the interpretation of Vavéeşıka Sūtra III. 1 15.—The paragraph serves as an explanation of the second of the two couplets which he cites on p. 200 (see above, p. 180). yat tu yathoktāt trurūpalinggād ekena dharmena dväbhyām vā viparītam, tad anumcyasyādhigame lingaì na bhava-
 samdigdhas Ceti.
" But a middle term which differs from the mark with the three characters as just explained, in one character or in two, is not a mark which proves the probandum: this is what the author of the sütra means when he says 'the false reason is the unproved, the unreal, and the doubtful' '".

[^157]It seems clear ${ }^{1}$ that Praśastapāda misinterprets the sütra : for the next two sütras give instances of two classes of fallacious reason, namely, of the 'asat'yasmād vişāni tasmād aśvah, 'it is a horse because it has horns' ${ }^{2}$,-and of the 'şamdigdha'-yasmād visān̄ $\bar{i}$ tasmād gauh,' it is a cow because it has horns:' and if the sutra had intended three classes of fallacious reason it

[^158]would presumably have exemplified the third also. Moreover Prasastapäda's explanation of aprasiddha as applying also to the fourth class, asädhāraña or anadhyavasita,which he adds,-is altogether improbable. It seems almost certain therefore that the sütra must be read im two parts-aprasiddho ' napadeśah. Asan saṁdigdhas' ca. "The doctrine of Kañāda as now restored to the text of the Su$t r a$ is perfectly plann: it states a definition of a fallacious reason (anapadesa). . . as that which is unproved (aprasiddha). Of the fallacious reasons two species are mentioned, the unreal (asat) and the doubtful (samdigdha), which correspond accurately enough to the later asiddha and savyabhicāra"'.

The phrase ekena dharmeṇa dväbhyäm vā became a source of doubt to the commentators at a later period, after Uddyotakara (or some earlier writer) had drawn attention to the existence of apparently valid middle terms which satisfy only two conditions of the trairüpya,-the kevalānvayin and kevalavyatirekin of the later schools. There is no evidence that either Prasastapāda or Diñnāga had raised the problem involved in this distinction. But Sridhara, commenting on Praśastapāda from the standpoint of the later schools, raises the question ${ }^{2}$. He says that some hold that the kevalānoayin and the kevalavyatirekin (although apparently excluded by the trairūpya) must be supposed to be included among valid reasons in virtue of their establishment in the sister-s $\bar{a} s t r a$ (i.e. the Nyäya) ${ }^{3}$ : while others say that the definition embodied in the trairūpya is to be taken 'vyastasamasta', i.e. it is intended to apply as a whole (samasta) to the ordinary

[^159]anvayavyaturekin, which must satisfy all three conditions of the tratrūpya : but it is only intended to apply by parts (vyasta) to the kevalänvayin and kevalavyatirekin: the former being valid if it satisfies the conditions of presence in the pakṣa and presence in the sapakṣa (no vipakşa being available); the latter being valid if it satisfies the conditions of presence in the pakssa and absence in the ripakṣa (no sapakṣa being avalable).

## Fivefold classification in the Nyāya

The Nyāya Sūtra (I. ii. 4-9) enumerates and defincs five fallacious reasons : but they do not correspond, except in the case of the first one defined, with the fivefold division which became classical in the school later, and which was partly derıved trom Bauddha-Vaisessıka logıc. The meaning of the sütra definıng the last kınd, kälätita, had already been lost in Vätsyäyana's time ${ }^{1}$, as is clear from the fact that he reports two different opmions about it. The identification of it with the bädhita-hetväbhasa of the later schnol is a guess. It may be a correct guess : but Vātsyāyana himself does not even hint at any such identhication.

## (1) Sūtra 5. Anaikāntikaḥ savyab मiō̄raỵ

This is the samdigdha or aniscita of Vaiseşzka-Bauddha logic,-the inconclusive or doubtful reason. It retaned the same name and nature throughout the history of the schools. Vātsyāyana gives the example : 'Sound

[^160]is eternal because intangible". The alleged reason, he remarks, is not confined to the one alternative (ekatra avyavasthitih); or, it is too wide (saha vyabhicāreña vartate) : for atoms (which are eternal) are tangible, so that there cannot be a probans-probandum relation in the supposed probative negative mstance 'the jar which is tangible is transitory'; while consciousness (which is intangible) is not eternal, so that the supposed probative positive instance 'the soul is intangible and eternal' is equally defective. Western logic would say it is impossible to assert that All intangible things are etes nal, and to draw the desired conclusion in BARBARA-
(All) intangible things are eternal
Sound is intangible
Therefore sound is eternal-
for the middle would in fact be undistributed; since some intangibles (consciousness) are in fact not eternal. It is however useless to attempt to equate the Indian savyabhicāra with the western 'undistributed middle '. The Indian is concerned with the question whether the examples show the alleged connection of characters: that is to say, with the question of the material truth of the major premise The quantitative formalism of the western syllogistic is therefore quite alien to Indıan logic : and ${ }^{\prime}$ the attempt to identify the two schemes of fallacy can only lead to confusion ${ }^{\mathrm{i}}$.

[^161]Vātsyāyana sums up the objection to the argument under consideration by saying that both kinds of example, positive and negative, are forthcoming, and that in both of them there is inconclusiveness ${ }^{2}$; and therefore the probans-probandum relation does not subsist here (dvividhe ' pi drst̄ānte vyabhicārāt sadhyasädhanabhāvo nästi).

## (2) Sútra 6. Siddhãntam abhyupetya tadvirodij̀ VIRUDDHAH

" The contradicted reason is that which after accepting a tenet contradicts it."

This does not correspond with the normal type of the viruddha as expounded in later logic, which follows Vavsesika teaching here, giving the name to a middle term which proves the contradictory of what it purports to prove : as, this creature is a horse because it has horns. Nor does the sūtra apparently intend a fallacy like the istavighätakrt variety of the viruddha ${ }^{2}$, in which the middle contradicts some implication of the posstion which it is used to prove.

Vātsyãyana says :-" For example, 'This particular form of reality (vikära) ceases to be manfested, because it is inconsistent with permanence' . 'A particular form of reality exists even after it has ceased to be manifested, because it is inconsistent with being destroyed'. The middle term states that a permanent particular form of existence is not possible; and this is contradicted by the

[^162]defendant's own tenet 'a particular form of reality exists even after it has ceased to be manifested'.'

The difference between the sütra's meaning and the isstavighattakrt is that the former does not represent the tenet which is contradicted by the middle term as being an implication of the position which the middle term purports to establish. The nature of the fallacy, as explained by Vātsyāyana, is that the defendant proves of one subiject in a pair of syllogisms two qualities which cannot coexist because they are mutually contradictory,-namelv. cessation of manifestation, and continued existence (astztvam̀ cātmalābhāt pracyutir iti ca viruddhāv etau dharmau na saha sambhavatah) The two middle terms are of course also mutually contradictory.-Either argument, in itself, is not objected to. The fallacy lies, not in either argument taken separately, but in the combination of them. As thus expounded the fallacy comes very near to the antinomy (viruddhāvyabhucārin) of Diñnāga: but (assuming that one or other of the middle terms is false) we may follow Prasastapāda in classing it with the viruddha variety of Fallacious Proposition : in which case it is really the bädhitahetväbhāsa of the later schools ${ }^{1}$.
(3) Sütra 7. Yasmít prakaranacintā sa nirnayārTHAM APADISTAHY PRAKARANASAMAH
" When the quality from which the question arises is adduced as proving (one of the alternatives), the reason is called prakaranasama, petitio principii, 'identical with the question'."

Vātsyāyana's example is: 'Sound is transitory, because we do not find in it the characters of a permanent thing, and thinge like jars in which the characters of permanent things are not found are transitory: Sound is permanent, because we do not find in it the characters of transitory things, and things like ether in which the qualities of transitory things are not found are permanent'.

[^163]The argument to prove either alternative 'begs the question'1. But comparing the language of Vātsyayana with that used by Prasastapāda in speaking of his asädharana or anadhyavasita, the reason which leads to no conclusion (adhyarasāyam na karoti), there is no doubt that Prasastapāda conceived himself to be merely interpreting the Nyäya-sūtra's prakaranasama fallacy in his own anadhyavasita He is almost certannly writing with reference to Vātsyãyana. Both of them make the same distinction between the savyabhrcära (samdigdha), which Vātsyãyana here explicitly calls saḿmayasama, on the onehand, and the prakaranasama or anadhyavasita, on the other hand The distinction is that in the former fallacy a common quality which gives rise to a doubt is taken as a conclusive reason• as Vātsyāyana says, yatra samãno dharmah samśayakāraṇam hetutvenopādīyate sa saḿśayasamah savyabhicāra eva whereas in the latter fallacy there is a vimarsa or suspense of judgment due to complete absence of evidence (as opposed to samsaya, a pair of doubtful judgments suggested by evidence, but by evidence which is inconclusive in either direction). We are, in the case of vimarsin, looking for decisive evidence but we do not find it (vimarsasya visessāpekṣitā ubhayapakṣavisesānupalabdhis ca) : and this state of affairs 'starts 8 question' (prakaranami pravartayati), but supplies no evidence whatever-not even donbtful evidence-towards a conclusion.

It scems clear then that the affiliation of this fallacy is with the anadhyavasita of Prakastapāda, that 18 to say, with the asädhärana of the later schools: while the savyabhicāra of the Nyāya-sūtra affiliates with the sādhāraṇa varicty of sanyabhicära in the later classification.

[^164]It would be a mistake to equate it with the viruddhāvyabhicārin of Dinnāga, which is the satpratipaksa of the later schools, -a genuine antinomy, where both arguments are equally strong though they lead to contradictory conclusions. Neither Vātsyāyana nor Prasastapāda will admit the posssbility of antinomy. There is no satpratipakṣa in the genuine Naiyāyika tradition: it is an aberration in classification adopted by the later schools from Bauddha logic.
(4) Sūtra 8. Sādhyāviśistá́ ca sādhyatvāt sādhyasamay
" And a reason which is indistinguishable from the probandum in respect of having to be proved is called the reason which is 'identical with the probandum'.'

This clearly resembles the preceding fallacy in being a kind of begging the question - and this kinship with the previous fallacy is no doubt indicated by the word 'and' with which the present sūtra commences. Its historical affiliation however is with a variety of the 'unreal reason' or asiddha-hetväbhāsa of Praśastapăda and the later schools ${ }^{1}$. The variety with which it corresponds is the āśrayāsiddha. The example which Praśastapāda gives (under the rubric anumeyāszddha, which = the later $\bar{a}$ śrayãeiddha) is 'Darkness is substance because it possesses black colour " : the reason here assumes what has to be proved, for we cannot assert possession of a quality unless we already admit that darkness is a substance. Vātsyāyana's example of sädhyasama is almost identical : " Shadow is substance because it moves ". He points out that the movement of the shadow is the very thing to be proved : does it move, as a man moves? or is it not the case that, with the movement of some body which cuts off the light, there is a series of obscurations of different portions of light?

[^165]
## (5) Sūtra 5. Kālātyayāpadistah Kālātitiah

" When a thing is alleged as cause of an effect which goes beyond it in time, the fallacy is called the timelapsed reason".

The example given by Vātsyāyana is: Sound 18 permanent because it is manifested by a conjunction (of bodies), like colour (which is mannfested by the lamp only because it was there " all the time "). There 18 no more reason in the one case than in the other to suppose that the quality itself comes into existence through the agency which makes it manfest to us Just as the colour was in the jar before the light fell upon it, so the sound was in the drum before the drum-stick came in contact with it

The two cases, Vātsyāyana says, are not parallel : for in the case of colour the manifestation of the manfested quality does not go beyond the time of the manifesting agency (contact with light); cessante causã cessat effectus. But the sound is heard by a person at a distance after the contact of the drum and drum-stick bas ceased, and so the production of the quality in this case "goes beyond the time " of the contact (samyogakālam atyeti), and therefore is not merely a manifestation. for from the absence of the cause follows the absence of the effect (kāraṇābhāvāddhi kāryäbhāvah).

The meaning seems to be this. In the case of the colour we can say that the manifestation is the effect of contact of light with coloured object; and so we can hold that the colour was there all the time and is not an effect which comes into existence through contact with light. But in the case of sound we cannot say that the manifestation is the effect since the sound may be heard after the alleged cause has ceased to exist. In this case then the indication is that sound itself is the effect of the contact of drum and stick: and so we have no ground for
saying that it was there before but was 'manifested' by the contact of drum and stick.

This seems to be a not unreasonable explanation of the sütra, which then is concerned with a fallacious inference of causation. The argument criticised played a very important part apparently in early controversies. and it is not unlikely that the sütrakära should give the fallacy which the Naiyäyika finds in it a special place in his classification of fallacies. But the meaning of the sütra was already uncertain; and Vātsyāyana goes on to argue against another interpretation of it which identifies it with the nigrahasthāna described in V.11.11, under the name of apräptakāla, the 'mistimed' This nowever consist merely in failure to state the members of the syllogism in conventional logical order (avayavavipar$y \bar{a} s a)$ : and Vātsyāyane argues that a reason does not cease to be a true reason and become a fallacy merely because the premises are not stated in a particular order. And he adds that the sütrakāra would not have sadd the same thing twice, once under the head of hetrābhāsa, and then again under the head of ntgrahasthäna

## Fourfold Classification of Prasastapāda

Praśastapāda's detailed account of fallacıous reasons is given in the context in which he treats of apadeśa as a member of the five-membered 'syllogism', nnder the general heading of 'inference for another ' (parārthänumāna) ${ }^{1} \cdot{ }^{-}$
" The account of the 'statement of the mark' which has just been given implies that a statement of an unreal, contradictory, doubtful, or meonelusive (anadhyavasita) mark is no 'reason' (anapadesa).''

[^166]
## (i) Varieties of the astddha or unreal reason

" There are four kinds of unreal (asiddha) reason: unreal for both parties (ubhayäsiddha); unreal for one or other of the parties (anyataräsiddha); the reason that is not really what it purports to be (tadbhāvāsiddha); and the reason that is unreal in respect of the subject (anume$y \overline{s i d d h a})^{2}$. An example of the first kind (ubhayäsiddha) i.e. of a reason which both the defendant and the opponent regard as unreal, would be : 'sound is noneternal, because it has parts (sāvayavattvād)'.

An example of the second (anyataräsiddha) would be : 'sound is non-eternal, because it is a product'2.

An example of the third (tadbhävāsiddha) would be mist presumed to be smoke when fire is to be inferred through the existence of smoke ${ }^{3}$.

An example of the fourth kind (anumeyāsiddha) would be 'darkness is an earthy substance, because it possesses black colour'4

Nотв -The Nyäyapravesa list is practicully identical with thıs See Vidyäbhūp̣ặa HIL p. 293 (=MSIL p 93) The Sloka-värtika (anumaña-pattccheda 75-83uses the later terminology of svarūpäsiddha and äśrayīstddha; and makes ubhayāsıddha, anyatarāsiddha, and a thurd variety samdıgdhässddha, sub-divisions of both these man classes; thus avoiding the cross-division involved in Prááastapāda's classification.

[^167]
## (ii) The contradictory reason (viruddha)

" For the middle term which, in addition to not being found in the Subject (anumeya), is not found in anything homogeneous with the Subject, and is present in the opposite of the Subject, is a contradictory reason, because it proves the opposite of what is to be proved : for example, 'it is a horse because it has horns'."'

The connective 'for' ( $h i$ ) appears to explain why Praśastapăda gives as an example of a contradictory reason the very argument which the Sütra (III.1.16) has given as an example of the 'asat',-which Praśastapāda identifies with asiddha. The connection of thought then is "The argument 'it is a horse because it has horns', even of the middle term does not exisu in the Sub ject (anumeye 'vodyamāno' $p \boldsymbol{q}$ )-so that the argument would so far be a case of asiddha-, is also a contradictory reason in as much as it proves the opposite, 1.e. it proves that the subject is not a horse " An unreal reason is not necessarily a contradictory reason, but a contradıctory reason is necessarily unreal And it happens that the Sütra's example of unreal reason is also an example of a contradictory reason.

Division of the contradictory
Reason.
(a) Twofold Diviston.

No sub-divisions of the contradictory reason are given by Prasastapäda. The Nyāyapravesa on the other hand gives four varreties under this head, whle the Hetucakra-damaru doctrine (which is embodied in the Pramanasamuccaya) shows two arguments which are classed as contradictory. The two contradictory reasons given in the Hetucakra are ${ }^{1}$ -

Sound is eternal because a product
Sound is eternal because an effect of volition

[^168]These correspond to the two valid types given in the Hetucakra-Sound is non-eternal because a product: Sound is non-eternal because an effect of volition. The two reasons which lead in valid syllogisms to the conclusion that sound is non-eternal are two varieties of the contradictory when used to prove that sound is eternal.
(b) Fourfold

Division.
three others ${ }^{1}$.
The fourfold list is - -
(1) Where the middle contradicts the major'Sound is eternal because a product'. See above for this. The Slokavärtika gives the same example, and describes this varnety of viruddha as dharmabädha, 1 e. sublation of the major.
(2) " When the middle contradicts the impled major" (Vidyābhūṣaṇa, loc cit.)
-'The eyes are serviceable to some being because they are made of particles, like a seat, bed, etc. ${ }^{\prime 2}$.

Kumärila gives this argument as an example of his sixth class, dharmadharmivisesabādha, 1 e. contradiction both of a particular quality implied in the major and of a particular quality implied in the minor :
tadobhayavisesasya bādho 'yam sādhyate yadā pärārthyam cakṣurādīnā̀m samghātāc chayanädivat.
ätmānamं prati pārā̄rthyam asiddham iti bādhanam

[^169]asamhataparārthatve dreṣte saminatatā 'pi ca anahaṁkärikatvà̇ ca cakṣurādeh prasajyate. (Sl. Värt. anumāna, 104-107.)
" It is sublation of particular qualities of both major and minor when it is argued that the eyes and other organs serve the purpose of some 'other' because they are composites, like such things as beds. The 'serving the purpose of some other' which is illustrated in the example of the bed is service of a composite, and the middle term (compositeness) which this illustration carries with it is a middle term universally connected with material things : thus there is a sublation which may be expressed in the words 'serving a purpose with reference to the soul is not established': (the sublation consisting in the fact that) there is on the one hand compositeness in the thing experienced (the eye or the bed) although it is supposed [in the former case] to serve the purpose of the incomposite soul and on the other hand that the consequence would follow that the eye and other organs could not be evolutes from the ego-principle (ahamikāra), as the Sāmkhya supposes them to be, if they were not composites ${ }^{1 \times}$ '.

The Sämhhya argument is a good one-it is simply the teleological argument. The world is a samghāta, a collocation or arrangement of parts,-an arrangement which points clearly to a user. Material Nature cannot be its own user: matter has no purpose, intrinsically. Therefore there is an immaterial principle to whose uses matter is shaped.

It is a good argument. But it is not a good argument for the Sämkhya: because the Sāmkhya's immaterial principle, Purusa, is by definition so antithetical to matter that it could have no purposes which material aggregates could subserve. And the organs of the sup-

[^170]posed purposes inconsistently attr ibuted to the immaterial principle are explained by the Samkhya as being in fact products of the material principle of 'ahamkāra'. Thus there is a double inconsistency in the Sämkhya's use of the teleological argument to prove the existence of soul 38 separate from matter. (1) The function which he intends to establish as his major (dharma) is a function of a particular kind (dharmaviseṣa) i.e. purpose of the soul. But his middle (saminatatā) really disproves the particular sort of function which he attempts to prove by it, if aggregatey of matter are essentially indifferent to the soul. Again (2) the subject (dharmin) of this argument is the eye and other such organs. These are concesved of in a particular manner (visesa) viz., as organs subserving the soul. But this way of conceiving of the organs is really sublated by the very middle term which the Sāimkhya uses: for this middle term (samhatatā) draws attention to the material character of the organs and, considered as material aggregates, the dharmin, the eyes or other organs, are regarded, quite consistently, by the Sāmikhya as evolutes of a purely materal prinoiple, the ahamkära, the egoprinciple. But the Sämkhya cannot have his dharmin, the sense-organ, in two ways at once. Either it is an evolute of matter; or else it is organic to the soul's purposes. But it cannot be thought of as both at once ${ }^{2}$.
(3) When the middle term is inconsistent with the minor term. As :-
'Sämänya (generality) is neither substance, quality nor action; because it depends upon one substance and possesses quality and action.'

[^171]The statements here made contradict the definition of sämānya as given by those who maintain that it is a separate category. The property of depending on one substance would prove the contradictory of what is maintained, for it would prove that sämānya was enther quality or action: and similarly the character of possessing quality or action would prove that it was substance. (The example is entirely artificial : it could have no existeuce except as an instance of an argument in a logic manual.)

It corresponds however to Kumārila's third type, dharmisvarūpabādha; "sublation of the essence of the minor " -
ihapratyayahetutvād dravyāder vyatiricyate samavãyam, yathehäyain ghaṭa ityädisangatih.
(Sl Vārt. anumāna 100-101. ${ }^{1}$ ).
" The category of samavãya, inherent relation, is separate from substance and the other categories, because it is the ground of the notion of a thing's being at a particular spot; for instance, such a conjunction of things as is expressed in 'here is the jar' ".

The very notion of the relation of mherence is sublated by the middle term. As the example shows, locality is an affarr of samyoga, contact. What is really proved is that the relation is not samaväya,-seeing that it is supposed to be an affair of spatial contiguty between substances.
(4) When the middle term is inconsistent with the implied minor term. As :-

Objects (artha) are stimulh of action, because they are apprehended by the senses. (Vidyäbhūşaṇa notẹs : "'Objects' is ambiguous meaning (1) things and (2) purposes. The middle term is inconsistent with the minor term m the second meaning'".)

[^172]-This appears to correspond to Kumārila's fourth variety, dharmivisesabādha, sublation of a particular property of the minor:-
yac ca sattävad ekatvam samavāyasya kalpitam tatra samiyogavad bhedāt syād visesaviruddhatā. (Sl. Vārt., anumāna 102-103).
" And because unity 18 supposed to belong to the in-herence-relation, as it does to the unversal 'Being', there would be sublation of this character (of unity), because there would be a variety of relations of inherence, just as there are a variety of relations of conjunction (i.e. the in-berence-relation has been made parallel to the conjunc-tion-relation, in the argument that 'the category of inherence is an independent category, because it is the ground of the notion of a thing's being at a particular spot' And this will imply that there are many relations of inherence-just as everyone admits plurality of relations of conjunction).

Kumārıla says that some give a sixfold division of the viruddha, others a fourfold division, others only one kind: 'sodhā viruddhatā̃n āhus' caturdhā vaikadhā 'pi $v a ̈ ' ~(S l ~ V a ̄ r t ., ~ a n u m a ̄ n a, ~ 96) . ~$.

He himself gives the sixfold division (1) dharmasvarūpaviruddha (11) dharmavıseṣavrruddha (in) dharmisvarüpaviruddha (v) dharmıvisessaviruddha (v) dharmadharmisvarüpavıruddha (vi) dharmadharmiviseṣaviruddha.

His examples of (i), (in1), (iv) and (vi) have already been given. The other cases are :arthavac chabdarūpam syāt prāksambandhā radhäraṇāt, vibhaktimattvāt, paścädvat, svarūpeneti cāşrite asvarūpärthayogas tu pascāc chabdasya dṛ̂́yate tẹna prāg api sambandhād asvarūpārthatā bhavet. (Sl. Värt., anımāna, 98-100).'

You argue that a word has meaning even before its relation to other words in a sentence is grasped,-it has meaning as an isolated unit, svarüpena. But the reason you gıve, vibhaktimattvāt paścädvat, con* tradıcts this qualification svarūpena; for themeaning which the word has in virtue of possessing inflections, as in the case of the word after its relation to other words in the sentence has been grasped, would not be a svarūpārtha. As Pārthasārathi Miśra says ad. loc., the vyäptı that is seen is between possession of inflections and the conveying of a meaning other than meaning as an ssolated unit,-svarūpätiriktārtha ${ }^{1}$.
ntyam ātmāstıtā kaiścul yadā Sautrāntikam prati sädhyate 'vayavābhāvād vyomavad dvayabādhanam. (Sl.Värt., anumāna 103-104).
Pārthasārathı Mıśra explains. 'Space is merely absence of an obstacle ( $\bar{a} v a r a n \bar{a} b h a ̈ v a$ ) for the Sautrāntika. And 'absence' being nothing, space has not even q being (svarūpa) . much less eternality ''.-So that ubsence of parts (avayaväbhāva), as exemplified in space, contradicts the essence of the minor term (ātma, as something real) and the essence of the major term (eternality).

## (iii) The doubtful reason (samddıgdha)

PBh, p. 2381.20 ff . " The reason that is found in the Subject or minor (anumeye san), and is common (sädhärana) both to that which is homogeneous with and to that which is not homogeneous with the minor (i.e. is found both in sapaksas, XP's, and vipaksas, Xnon-P's), is a 'doubtful' reason because it is the cause of doubt (samdehajanakatvāt) : for example, 'it is a cow, because it has horns' '".

[^173]This is the sädhärana fallacy, which alone PraÉastapãda classes as 'doubtful'. He does not subdivide it; but it admits of formal subdivision under four heads, as given in the Hetucakra-damaru, or in the Slokavarttika; according as the middle resides (1) in all sapaksas and some vipakẹas, (ii) in some sapakṣas and all vipakşas, (in) in some sapakşas and some vipakṣas, (iv) in all sapakṣas and all vipakṣas.

The stock examples, as given in the Hetucakra and repeated in the Slokavārtika, are :-
(i) Sound is an effect of volition because it is noneternal.
(ii) Sound is a non-effect of volition because it is non-eternal.
(iti) Sound is eternal because it is corporeal ${ }^{\prime}$
(iv) Sound is eternal because knowable.

The Nyäyapravesa list of six 'uncertain' i.e. doubtful reasons, is made up of the above four cases of the $s \bar{a} d h-$ ärana, together with (v) the asädhäraṇa, 1 e. a middle which 18 found neither with sapakşas nor with vipakṣas, but only in the pakṣa-as 'sound is eternal because sudible' and (vi) the viruddhävyabhicärin, or antınomy.

Prasastapāda will not admit that the asädhärana can be a samdehajanaka, a cause of doubt; and therefore he introduces what seems to have been a novelty in class1fication, by setting up a fourth class, the anadhyavasita or reason which does not lead to a conclusion, to cover the asädhärana. He further refuses to admit the viruddhävyabhicärin as a variety of the samdigdha, suggesting that it is either a case of the asãdharana (and so anadhyavasita), or else non-existent. Kumărıla clearly accepts the threefold classification' of the 'samsaya-

[^174]hetu' as sädhārana, asādhārana, and viruddhāvyabhicärin; but he adds ${ }^{2}$ that although some reckon the viruddhävyabhicärin as a separate class (jätyantara) others hold that the two reasons taken separately (amsena) form a case of sädhärana; while taken together there is want of connection (ananvaya). Pārthasārathi Mıśra explains the latter clause to mean that, taken together, the two reasons are a case of asädhärana, for the reason that they are not found together in any other instance. This is Praśastapāda's view and Kumărila may be referring to him here

The example given by Kumārila is the antinomy 'Air is perceptible, because it is tangible', and 'Arr is imperceptible, because it has no colour'.

## (iv) The reason which does not conclude (anadhyavasita)

PBh p. 238 1.23. " Some argue that we see doubt arising when there is a falling together in one thing of two contradictory middle terms which have the characters described above (in the trairūpya), and that this is therefore another variety of the doubtful reason : as in the case of the two middle terms 'possession of movement' and 'intangiblity' taken as proving the corporeality and the incorporeality of the 'mind'. Surely it will be said, this (the combrnation of possession of movement with intangibility) is just a unique (asädhārana) quality of 'mind', because the combined qualities do not occur in any other subject : like the two qualities of invisibility and perceptibility ${ }^{2}$.-Yes, we reply : and it is for this reason that we shall designate it a case of a reason that does not point to any conclusion at all, an 'anadhyavasita' reason.

[^175]" But it will be sald that in several places ${ }^{1}$ in the Varses̨zka-sūtra ambiguty of experience (ubhayathä darsanam) is asserted to be the cause of doubt.-This is not the case: doubt arises from experience of a par of -objects (riṣayadvaitadarśanāt sam̉́sayah) : in other words, the cause of the arising of doubt is the experience of a pair of objects."

The question is, what is the distinction between ubhayatha darsana and vısayadvantadarśana in virtue of which the latter alone 18 held to be the cause of doubt? I think the distinction is clear enough from VS II.11.17, and from the account of doubt which Prasastapāda bases on thıs sūtra The sūtra runs: sāmānyapratyakṣād viśeṣāpratyakṣād úsesesasmitteśs ca samśayaḥ-"doubt arises from experiencing a common character, failing to experience distinctive characters, and remembering the distinctive characters '". You see an object marked by a certain relative tallness (which is common to a man or a post) : you do not experience the distinctive features either of man or post : but you are reminded of both these (contradictory) characterisations by the common character. -The point is that a common feature, sädhäranadharma, implies a pair of objects to which it is common. and Prasastapāda emphasises this in his own definition by the use of a dual-prasiddhānekaviśeşayoh sädrsyamätradarsanäd ubhayavišesānusmaraṇād . ubhayävalambī vımarşah (PBh.p. 174 1.20).

[^176]Now the so-called 'ambiguity of experience' (ubhayatha darsanam) of which the opponent speaks in the case of an asädhäraṇa dharma does not admit of this visayadvartadarśanam • for the mark of the asādhäraṇa dharma is that it is found nowhere else except in the subject. You have not experienced kriyāvattva plus asparśavattva as connected in one experience with mürtatva and in snother experience with amürtatea-there is no visayadvaita here. And therefore it cannot be brought under the rubric of doubt as laid down in VS M.in.17. -This seems to me to be a real distinction. Whether the antinomy ought to be classed as a case of asādhārana dharma 18 another matter But the opponent has made or accepted the identification. And what Praśastapāda shows now is that to treat the asädhärana as homogeneous with the sädhāraña is a confusion in classification The latter generates doubt because it has been connected with contradictory experiences (visayad-vaita-M has been found with P in sapakssas and with non-P in vipaksas). It is a case of conficting evidence. The asädhärana is quite different for it excludes the posslblity of experience which could provide evidence for either alternative. It is a case of absence of evidence. And complete absence of evdence suggests no view at all, and therefore cannot be said to generate doubt There 18 nothing positive about it-at most it leaves us in doubt, as suggesting no conclusion at all (adhyavasāyain na karoti).

Audibility does not suggest either that sound is eternal or that it is non-eternal, nor does the possession of smell suggest either that earth is eternal or that it is non-eternal. And, as suggesting neither alternative, such middle terms (i.e. asādhärana dharma's) cannot be causes of doubt (samsayahetu or samdigdha), but are
simply middles that fail to suggest any conclusion (anadhyavasita) ${ }^{1}$.
PBh.p. 239 1.7. " If the thesis and counter-thesis in the antinomy were equally strong, their mutual contradiction would prevent them from giving rise to conviction: but it would not constitute them a cause of doubt. But as a matter of fact they are not equally strong, because one or other Proposition 'anumeyoddeśa=erther pratijñā or pratijnābhāasa, according as it is avirodhi or virodhi pp.133-4) will be sublated by scriptural authority (a gamabädhita) • and then it will be a variety of contradicted thesis (i.e. a case of pratijnābhāsa) ${ }^{2 \prime}$.

Prasastapāda's position is that, no matter how you regard the 'viruddhāvyabhicärin', the classification of it as a samंdigdha hetväbhāsa will be unjustifiable. You may treat it as a case of the asädhäraṇa: but in that case it will come under the head of anadhyavasita hetväbhäsa. If there is nothing to choose in favour of one rather than the other of the alternative conclusions the mutual contradiction does not generate doubt but merely leaves you unable to conclude. But as a matter of fact the so-called

[^177]antinomy will be found to be a case of 'sublated thesis' in respect of one of its alternatives.
PBh. p. 239 l.10. " And the middle term which is found in the subject (anumeya) but is absent in what is homogeneous with the subject as well as in what is not homogeneous with the subject, being non-proven in either direction ${ }^{1}$ is not a ground for a conclusion and is therefore designated the non-concluding reason (anadhyavasita); for example, the argument 'every effect is existent even before its origination, because it orignnates'. This 'asädhärana' is meluded under the 'aprasiddho 'napadeśah' (of Vaiseṣika Sūtra III. i. 15) '.

And if it be objected that the vrsessa or asādhärana dharma 1 s stated (in Vatsessika Sūtra П.ii. 21 and 22) to be a cause of doubt (samsayahetu),-the answer is that this is not the case ( $n a$ ), since the sütra has a different meaning (anyārthatvāt) ${ }^{3}$.
"What you mean is that (on our view) the doubt as regards sound could not arise from experience of its peculiar property (our view being that such experience never generates doubt). And yet the sūtra, II. ii. 22, says that doubt to whether sound is substance, quality or action arises viseṣasya ubhayatha drṣtatvāt, i.e. from ambiguous experience of the peculiar property. The solution of this difficulty is that the viseses a spoken of in the sütra could not be audibility ${ }^{4}$ as the peculiar property of this that or

[^178]the other particular substance, quality or action; but on the contrary turns out to be neither more nor less than a common character pertaining to all ${ }^{1}$. You may ask on what grounds we say this.
"The answer is given in Vaiseşika Sūtra חI.ii. 22 which says that the possession of a pecular property (such as audibility 18 ) 18 not confined to one category alone (e.g. quality), but is found in each one of the three categories of substance, quality and action (so that the argument 'sound is quality because it possesses a peculiar property, viz, sudibility, would be open to the objection that the middle term, 'possession of a peculiar property', is ambiguous-ubhayathādrsta-in the sense that it is found both in sapakṣa's or tulyajätīya's, i e. in other qualities, and also in vıpakṣa's or ärthäntarabhīta's, 1 e. in substances and actions) ${ }^{2}$.

[^179]"Audibility as such is not cause of doubt. If it were, the undesirable consequence would follow that doubt would arise in the case of the six categories (from their distinctive characters). Therefore it is only from the thought of a common quality that doubt can arise."

## BECTION 6 FALLACIES OF 'PROPOBITIONS', AND FALLACIOUS EXEMPLIFICATION

The recognition of these classes of fallacies other than hetnäbhäsa's or fallacious middle terms appears to be characteristic of the period represented by Prasastapãda and the Nyäyapraveśa. The fallacies of the Proposition and of the Example were quite unknown to Vātsyāyana and the carly Nyäya, and were rejected by Uddyotakara.

The fallacies of the proposition are represented by the bädhita class of hetväbhãsa in the later schools: while the fallacies of the example may be found in the asiddha class as expounded by later logicians (vyäpyatväsiddha). Here, as in other detals of logic, Kumārila accepts, with modificatıons, the teachıng of Praśastapāda.
(i) Pratijñābhāsa Fallacies of the Propostion

Práastapāda, having defined the Proposition as a statement of a probandum which does not involve

[^180]contradiction (anumeyoddeso 'virodhi), proceeds (PBh.p. 234 1. 3). "As the result of inserting into the definition the condition 'not involving contradiction', those apparent or fallacious Propositions are excluded which contradict (i) perception, (ii) inference, (iii) what has been accepted ${ }^{1}$, (iv) one's own sãstra, (v) one's own words' $\ddagger$.

The Nyäyapraveśa ${ }^{2}$ gives a ninefold division, composed of these five with four others. The Slokavärt$t i k a^{3}$ gives an independent classification.

PBh p. 234 1. 4. 'Examples are:-
(i) Fire is cool. This is contradicted by perception.
(ii) Physical space is dense This is contradicted by inference ${ }^{4}$.
(iii) Intoxicating liquor is to be drunk by a Brāhmana. This is contradicted by scripture ${ }^{5}$.

[^181](iv) Effects are exastent before their ongination. This, when put forward by a Vaisespika, is contradicted by his own sästra '" (which maintans asad utpadyate, i.e the asatkär yaväda, origination of the non-existent. This can be treated as a case of self-contradiction).
(v) " Words do not convey any meaning. This is a self-contradictory statement'" (since if it were true this very sentence could not be used to convey a meaning. The example in the Nyäyapravésa 18 :'My mother is barren') ${ }^{1}$.

[^182]Four additionsl varieties are mentioned in the Nyä-yapravé́a:-
(vi) A thesis with an unaccepted minor.
(vii) A thesis with an unaccepted major.
(viii) A thesis with both terms unaccepted *
(ix) A thesis unversally accepted, such as 'fire is warm'. Indian logic always insists on the fact that there can be no sādhya or probandum without siṣädhayıṣa $\bar{a}$ or the desire to prove. And there can be no desire to prove truisms.
Kumārıla simılarly states that inference is inapplicable (i) where the thing is already known to be so, and (2) where the contrary is already known to be the case ${ }^{1}$ He goes on to say that any of the six means ${ }^{2}$

[^183]of proof can in this way sublate a subsequent attempt at proof.

There are obvious difficulties in the conception of a fallacious Proposition (pratijinābhāsa) or fallacious Thesis (paksäbhäsa), as there are in its later equivalent the Sublated Reason (bādhitahetväbhāsa, bādhitaviṣayatva). Sridhara raises the general objection to the conception: " There cannot be sublation of an inseparably connected (avinäbhütasya) middle term, because sublation and inseparable connection are mutually contradictory. To this objection we reply that if the 'three characteristics of the middle' are accepted as constituting inseparable connection (yodi tranū̄pyam avinābhāvo 'bhimatah) then there is (asty eva) sublation of an 'inseparably connected ' middle term : for instance there is sublation (by perception) of the argument 'fire is not warm, because it is a product'. But if by saying that there is no sublation of an inseparably connected middle you mean that the 'three characteristics of the middle term' when the object is not sublated ${ }^{1}$ constitute inseparable connection,then of course we should agree that there is no sublation of an inseparably connected middle ${ }^{2 \text { ', }}$. But this

[^184]'pañcarūpopapannatva' doctrine of the later schools-that in addition to the 'three characteristics' a valid reason must also be characterised by having a subject-matter which is neither counterbalanced (satpratipaksa) not sublated (bädhita)-does not belong to the phase of logical thought represented by Prasastapăda and by the Nyãyapraveśa ${ }^{1}$.
(ii) Nidarśanābhäsa. Fallacies of Exemplification
" Exemplification has two forms according as it is through similarity or dissimilarity. Exemplification through similarity consists in showing the constant accompaniment of the general nature of the Mark by the general nature of the Probandum or major term(anumeya-
the condition of the trasripya, if the trastipya is read wothout the res tructive 'only' in the second and thard clauses. And Bridhars may hove relied on Uddyotakara's cnitique of the trairípya (for the present purpose) ss proving that the restrictive 'only' cannot be introduced into the fratrupya withont making nonsense of 1 it .

At any rate I can find no other way of making sense of what Sridbars sвys here. His position only amonnts to this after sll if your thesis is not inconsistent with facts, the evidence will be good enough to prove it without being required to satisfy the impossibly ideal condition that M is found only in sapaksa's ( P 's) and never in vipakpa's (non-P). (Impossibly idesl, becanse you cannot hope to prove an only or a never by ovidence) If on the other hand your thesis is mconsistent with facts you may (and sometmes can) adduce evidence both positive and negative m support of it - bat it will be perfectly worthlass, becanse the thesis is already disproved before yon set out to prove it.

The obvious retort to the position is that, if the thesis is siready disproved, it $1 s$ disproved by facts - snd these facts will as as matter of fact constitute counter-evidence which will disprove the opponent's aseromption that has evidence satisfies the ideal conditions of never and only For though it msy be impossible to prove an only or a never, a angle contradictory inatance is enough to disprove either Why not then class what Prasastapida calls a 'sublated thesse' under the hesd of hetoabbhäsa, fallacious middle, exther ss oiruddha or as anaskantska? For it is slwsys reducible to one or other of these two heads.

I think Aridhars has misunderstood the intention of pratignabhasa, which was merely intended to put ridsculons propositions ont of court withort further argoment. And this is the only practical wisy of dealing with nonsense
'How completely the later doctnne of bddhitahetodibhase corresponds to the earlier doctrine of pratintabhasa will appear from companson of the Nyayardra's sub-divieion of badha (given by Vidyabhapaps $H I L$ p. 367. cp p 410 for the Tattvacintanani's elassification).
sāmānyena lingasāmānyasyānuvudhānadarśnam): for example, 'what possesses movement is found to be a sub-stance,-like an arrow'. Exemplification by dissimilarity consists in showing that in the contrary of the Probandum there is absence of the Mark : for example, 'what is not substance does not possess movement.-like the universal 'Being' ${ }^{1}$.

The six fallacies of sumular Exemplification
PBh. p. 247 I. 1. 'By this account of Exemplification the fallacious exemplifications are set aside, as, in the argment 'Sound is eternal, because it is incorporeal', the exemplifica-tions.-

What is incorporeal is found to be eternal,-
(1) like an atom (atoms are not incorporeal)
(2) like movement (movement is not eternal)
(3) like a pot (pots are neither incorporeal nor eternal)
(4) like darkness (darkness is nothing)
(5) skylike (a bare example without statement of connection) and
(6) 'what is substance, possesses movement' (an inverted statement of connection).
These six fallacies of exemplification through similarity are designated as-
(1) having the middle non-proven-lingāsiddha.
(2) having the probandum non-proven-anumeyāsiddha
(3) having both the middle and the major non-proven-ubhayäsiddha
(4) having the substrate non-proven-āśrayãsiddha ${ }^{2}$

[^185](5) want of connection-ananugata
(6) inverted connection-viparitānugata.

Fallacious Exemplifications by dissimilarity are-
(7) not excluded middle (lingāavyāvrtta)
(8) not excluded major (anumeyāvyāvrtta)
(9) neither middle nor major excluded (ubhayãvyävẹtta)
(10) having an unreal substrate (ā́srayāsiddha)
(11) failure of exclusion (avyāvrtta).
(12) inverted exclusion (viparītavyāvrtta).

Illustrations are the following :-
'What is non-eternal is found to be corporeal,-
(7) like action (does not exclude the middle, i.e. incorporeal. Action is not an example of the non-incorporeal)
(8) like atoms (does not exclude the major, 1 e . eternal. Atoms are not an example of the non-eternal)
(9) like ether (excludes neither incorporeal nor eternal, i.e. It is an example netther of the non-incorporeal nor of the non-eternal)
(10) like darkness (the example is not a real thing)
(11) jar-like (bare example, without statement of necessary exclusion of middle, i.e. incorporeal from non-eternal, $\mathbf{i} e$. the negative of the major. The bare example of the jar does not carry with it the truth that all non-eternals are corporeal)
(12) 'what is without motion is not substance' (the required concomitance is that 'what is not substance is without motion').
[Instead of excluding the middle 'possessing motion' from 'non-substance,' the negative of the major, you have excluded the major from the negative of the middle.]

The interesting varieties here are Nos. 5 and 6, and the corresponding Nos. 11 and 12 . Nos. 6 and 12 accord with the fact that Prasastapäda (and with him the author of the Nyäyapravesa, who gives a list corresponding except that it omits the āśrayāsiddha, Nos. 4 and 10) had fixed the form (vidhi) of the nudarśana as a 'major premise' Similarly Nos. 5 and 11 indicate the requirement of a vyäpti or avinäbhäva, a necessary connection between the attributes exemplified in the concrete instance or drsțānta ${ }^{1}$.
Note on the number of the Fallacies in Buddhist logic
Sugiura (p. 58) states that Samikara Svāmin recognised 33 fallacies,-nine of the thesis, fourteen of the reason, and ten of the example. "But if we consider the combinations of the fallacies of which a syllogism may be guilty, the number is greatly increased. Of this kind the Thesis is said to possess 9216, the Reason 117, the Example 84, in all then 9417 fallacies '’. (This appears to be the teaching of Kwei-ke's Great Commentary, not of the Nyāyapravesa itself).

Dinnanga did not recognise the last four of the fallacies of the Thess given in the Nyäyapraveśa, and

[^186]therefore it would seem that his list of fallacies must have been limited to 29 . Sugiura states the principle of division of the fourteen fallacies of the reason (p. 62): " Dinna enumerated fourteen fallacies of the Reason. These he classed into three groups with reference to the phases of the Hetu. The first four are those which are defective in the first phase of the Hetu, the next six are those which are defective in etther the second or the third phase, and the last four are those which are defective in both the second and the third phases'. (By the 'phases' of the Hetu is meant the three clauses of the trairupya. The asiddha breaks clause I, the aniścita breaks either II or III, the viruddha breaks both II and III). From this it is clear that Dinnagga recognised the asiddha, though it is ignored in the Hetucakra. Of the remaming ten fallircious reasons the wheel provides a place for seven which depend on the formal relations of the middle to the sapaksa and vipakṣa (i.e. roughly speaking, to the major): but only six of these figure in the list of 14 fallacies of the reason. The four not accounted for in the Wheel (other than the four asiddha) are the three varieties of viruddha where the middle is inconsistent with the minor, with the implications of the minor, and with the implications of the major; and (among the aniscita) the antinomic reason or viruddhävyabhicārin.

Sugiura (p. 70) notes that Dinnāga "enumerates 14 fallacies which may be committed in the course of disproof of a valid Thesis ;.. These fourteen fallacies Dinna ascribes to Socmock ''. 'Socmock' is without doubt Akspapăda (see Sugiura, p. 21 n. 3), and these fourteen fallacies of disproof ( $d \bar{u} s a n a \bar{b} h a \bar{s} s$ ) are nothing but an abbreviated list of the 24 jātis of Nyāyasūtra Bk. V.i., as is quite clear from the account given by Sugiura (pp. 2326). He adds that the fourteen 'fallacies of refutation' (i.e. jāti) are not mentioned in Samkara's Pravesa-tarkasästra (i.e. in the Nyāyapravesa). This is in accordance
with the practical ignorıng of Bk . V of the Nyāyasūtra by Indian logicians from the tıme of Pragastapāda onwards.

## SECTION 7. SYLLOGIBTIC. THE 'WHEEL OF REABONS', OR THE NINE VALID AND INVALID TYPES OF BYLLOGIBM

Diñnāga in the Pramänasamuccaya ${ }^{1}$ gives a formal scheme of nine valid and invalid types of inference which appears to be the earliest specimen of formal 'syllogistic' in Indian logic ${ }^{2}$. The scheme is a corollary of the second and third clauses of the trairupya ${ }^{3}$, that is to say it is a statement of all possible relations in which the reason or middle term may stand to positive examples (sapaksas, XP's) on the one hand, and to negative examples (vipaksas, X non-P's) on the other hand. The middle term may be found in all, some, or none of the positive examples : and agan in all, some, or none of the negative examples. The combination of these two sets of possibilities gıves rise to the Nine Types :-

> I All XP's are M. and All X non-P's are M (i.e. the hetu is sapakṣavipakṣavyäpaka ${ }^{4}$ ),

[^187][^188]e.g. 'Sound is eternal because an object of knowledge'.-But all the noneternal things that can be adduced as examples, as well as all the eternal things, are 'objects of knowledge'. Therefore the argument is inconclusive (aniscita, samdigdha. It belongs to the sādhärana or 'too general' variety of the savyabhicāra or anaikantika hetvābhāsa).
II. All XP's are M, and No X non-P's are M (sapakssavyāpaka vipakṣāvrtte), e.g. 'Sound is non-eternal because a product'. VALID.
III. All XP's are M, and some X non-P's are M (sapakşavyāpaka vipakşavkadesavrtti), e.g. 'Sound is an effect of volition, because non-eternal' -But some things which are not effects of volition are non-eternal, e.g. lightning. Inconclusive (antscta).
IV. No XP's are M, and All X non-P's are M (sapakṣārytti vipakşavyāpaka), e g. 'Sound is eternal because produced'. But there is no example of an eternal thing that is produced; and all examples of non-eternal things are products. Contradictory, since the evidence proves the contrary conclusion in the valid type No. II. It is a breach of both the second and the third clauses of the trairūpya.
Y. No XP's are M, and No X non-P's are M (sapaksavipakṣāvẹttz), e.g. 'Sound is noneternal, because audible'. There are no examples other than $S$ in which $M$ is
present. The evidence is confined to cases of non-M; and although this is found in all examples of non-P (so that the third clause of the trairūpya is satisfied), it is also found in all cases of $P$, so that the second canon is not satisfied ${ }^{1}$.
As satisfying only one of the two latter canons the argument is inconclusive (aniścita). The asādhärana or 'too restricted' variety of the savyabhicāra hetvābhāsa, accordıng to the later classification. But Prasastapäda classes the asädhārana as anadhyavasita, a reason based on no evidence at all, and refuses it the name of aniścrta-samdi-gdha-a reason based on conflicting evidence.
V1. No XP's are M, and some X non-P's are M (sapaksā̄vrttı vıpaksaikadesavrtti), e g. 'Sound is eternal, because an effect of volition' - But there are no examples of eternal things which are effects of volition; and, on the other hand, some (though not all) non-eternals are effects of volition, e.g a pot is so, though lightning is not. The argument breaks both the second and the third Canons. and it is Contradictory since

[^189]the evidence proves the contrary conclusion in the valid type No. VIII.
VII. Some XP's are M, and All X non-P's are M. (sapaksaikadesavrtti vipakşavyäpaka), e.g. 'Sound not an effect of effort, because noneternal'. It is true that some things which are not effects of effort are non-eternal, e.g. lightning, so that the second canon is satisfied : but on the other hand all things that are effects of volition are non-eternal, e.g. a pot (all X non-P's are M), so that the argument breaks the third canon which says that all X non-P's must be non-M. It is inconclusive.
Note.-It is not classed as contradictory, because the evidence will not prove the contrary conclusion, but will only lead to the equally inconclusive inference of the contrary in type No III This amounts to saying that the argument is not classed as contradictory, because it does not break two canons but only one.
VIII. Sonne XP's are $M$, and No $X$ non- $P$ is $M$ (sapakṣaikadesavṛtti vipakṣāvrttı), e.g. 'Sound is non-eternal, because an effect of volition'.
VALID. For some, though not all, noneternal things, e.g. a pot, are effects of volition; while no eternal things are effects of volition, e.g. ether. So that both canons are satisfied. It differs from the other valid type, No. II, because there the reason wss sapakṣavyäpaka, resident in all XP's. But it is not necessary to the validity of an argument that M should reside in all XP's : or, as we should put it, it is not necessary that 'all P should be M'-all we need is that 'all $M$ should be $P$ '.
IX. Some XP's are M, and some X non-P's are M (sapakṣavipakşaıkadeǵavətti), e.g. 'Sound is eternal because it is corporeal'-But although some eternal things are corporeal, e.g. atoms (others, e.g. ether, not being so), it is not the case that no non-eternal things are corporeal-for, although some non-eternal things are not corporeal, e.g. action, other non-eternal things are corporeal, e.g. a pot. That is, though the argument satisfies the second canon, it breaks the third. It is therefore inconclusive-differıng from No VII only in this respect that the equally inconclusive inference of the contrary would be in this same type and not in a different type
To sum up this ' Wheel of Reasons '. It gives (1) two types which are valid as satisfying both the second and the thurd 'canons' - (2) two types which are contradictory as satisfying neither canon and so admitting proof of the contrary in one or other of the two valid types: (3) five types which are inconclusive as satisfying only one of the two latter canons. Four of these inconclusive syllogisms satisfy the second canon, i.e. they argue from positive evidence. The fifth-the asädhärana, or too restricted reason-cannot satisfy the positive canon because from the nature of the case there is no positive evidence available in favour of either alternative. From the nature of the case, agan, it cannot help satisfying the negative canon- S being the only M , there cannot be any X non-P which is M. But (if there are any XP's adducible ${ }^{1}$ ) it will be equally true that there cannot

[^190]be any XP's which are M-so that the negative evidence will point in the direction of both alternatives equally, and the argument will be inconclusive.

The salient difference between this Wheel of Reasons and the Barbara Celarent of western formalism is that the latter starts from the major premise and ignores the evidence for it; while the former starts from the evidence and formulates the types of syllogism as determined by the kinds of evidence which may be adduced in support of the conclusion. In other words the Indaan logician is concerned with the relation of M to sapakṣas and vipakşas, XP's and X non-P's, while the western schoolman deals with the relations of $M$ to an abstract $P$. The ' example' therefore is not an unfortunate excrescence on the Indian syllogism, but essential to it, at least so long as it preserved its original character. When the conception of a ' vyāpti ' of M by an abstract P begins to overshadow the EExemplification' (nidarśana, udāharana), the distinction between the Indian and the Aristotehan syllogisms begins to be blurred for the udäharana tends then to assume the nature of a ' major premise ', and the example begins to look like an excrescence : and there is even the commencement of a development, out of the notions of vyapya and vyāpaka, of something that might have become a quantitative logic.
The 'form' of the nidarsana, and the notions of ryäpya and vyāpaka.
It may have been Kumārila who developed on these lines the implications of the 'vidhi' or 'form ' land down in the logic of Prasastapāda's age for the nidarśana. Kumãrila ${ }^{1}$ insists that the object of the example is to convey ' the pervasion of the middle by the major term' (vyäptim gamakasya gamyena-NR. 4 on 107) : and that this ' pervasion' can only be conveyed by

[^191]a definite order of the terms (racanãniseṣa-NRA), the middle being the subject (uddesya) and the major the predicate. The subject is the vyäpya or pervaded while the predicate (major term) is the ryäpaka or pervader. The mark of the subject is that the relative ' yat ' is attached to it, and that it is stated first. The mark of the predicate is that the correlative ' tat ' is used with it, and the particle eva. Eva by its restrictive force, being attached to the predicate or major term, 'distributes the subject or middle term. And thus we have what is equivalent to our ' All M is $P$ ' as the necessary form of the nidarśana,-which can now farrly be called a ' major premise ' The quantitative implications in the notions of $v y \bar{a} p y a$ and $v y \bar{a} p a k a$ are clearly set out by Kumärıla: yo yasya deśakālābhyām samo nyūno ' pi vā bhavet sa vyäpyo, vyäpakas tasya samo vā 'bhyadhiko' pi vā, tena vyäpye grthite 'rthe vyäpakas tasya grhyate na hy anyathā bhavaty eṣā vyäpyavyāpakatā tayoh. vyäpakatvagrhītas tu vyāpyo yadyapı vastutah $\bar{a} d h i k y e$ ' $p y$ aviruddhat $\bar{a} \bar{d}$ vy $\bar{a} p y a m$ na pratrpādayet.
$$
\text { (Sl. Värt., anumāna, } 5-7 \text { ). }
$$
" The pervaded is what has equal or less extension in space and time 'its pervader is what has equal or more extension. This means that when the pervaded thing is apprehended, its pervader is apprehended : ${ }^{1}$ for not otherwise would the relation of pervaded and pervader hold between the two And although the pervaded be (sometimes) grasped as pervading (its pervader), in as much as in reality there is not the contradiction [which arises when the "pervader" is also actually greater in extension,],-still, it would not cause the pervaded to be inferred ${ }^{\prime}$.

[^192]The last couplet is difficult, but may be interpreted to mean that though sometımes M may be convertible wrth $P$ (the proposition $M$ is $P$ being equipollent, so that there is no contradiction in saying that all $P$ is $M$, as there would be in case $P$ overlapped M in extension$\bar{a} d h i k y e$ ), still, when we do thus argue from P to M , " P " is no longer the vyäpaka or major term, nor can we be said to argue from "vyāpaka" to the "vyäpya;" from the " major" to the " middle". P is now our vyäpya, or middle, and we argue from it to M as our major, or ryäpak $a^{1}$. -This last couplet is quoted by Sridhara ${ }^{2}$ in dealing with Prakastapāda's account of the viparitānu-gata-nidarśanäbhāsa). "In the argument 'wind is substance because it possesses movement, the possession of movement is the pervaded and the being substance is the pervader. And a universal connection or 'pervasion' (vyäpti) is restricted to what is pervaded, solely (yac ca vyāpyam tadekaniyata $\bar{a}$ vaptih), and does not, like the relation of conjunction or contact (samyoga), attach to both terms; for the reason that the pervader overlaps the pervaded And even where two terms such as ' being a product ' and ' being non-eternal ' have mutual universal connection or are equipollent (samavyāptıka), so that the pervaded is also perviader, even here the universal connection refers to a term in the aspect of pervaded, and not in the aspect of pervader: because the latter aspect may also belong to a term which is wider in extension. This the teacher (guru, i e. Kumārila) points out in the couplet vyāpakatvagrhitas tu etc.'"s

[^193]
## SECTION B. SYLLOGIBTIC (CONTD) THE PURELY POSITIVE AND PURELY NEGATIVE TYPES OF SYLLLOGIGM

Uddyotakara developed this formal scheme (1) by drawing the important distinction, which Dinnäga failed to draw, between the case in which there is no XP, or X non-P (avidyamäna-sapakṣa, avidyamānavipaksa) and the case in which the reason is not found in an existent XP, or X non- P (sapaksāvrtti, vipakṣāvrtti) ${ }^{\text {• }}$ and (2) by taking palşadharmatä, the relation of M to S , into account. The former distinction adds seven other possible types to the nine recognised by Dınnāga three in which there is no X non- P , whle the reason is present in all, some, or none, of the existent XP's : three in which there is no XP, whlle the reason is present in all, some, or none, of the existent X non-P's: and one in which there is nether any XP nor any X non-P. This gives a total of sixtcen types.

But the insistence on taking into account the relation of M to S results in the multiphcation of this total by three : for this relation also assumes three forms, according as M resides in all, or some, or none, of the Sulject (sädhyavyāpaka, sādhyaikadesavq̣tti, sādhyāvrtti). The total of types of syllogism and paralogism thus reaches forty-eight ${ }^{1}$. But as all types in which $M$ resides only

[^194]${ }^{1}$ Disregarding a variety of ways of sub-dividing the main divisions which give rise to endleas types. NV p. 170 1. 17.
partially, or not at all, in S, are asiddha ${ }^{1}$, only the first sixteen need be taken into account. The two latter sets of sixteen merely repeat the first sixteen types, with the addition of what we should call a false minor premise. Uddyotakara's contention as against the Buddhists is that they are wrong in holding that only a reason which satisfies all three 'Canons' (a trilakşanahetu) is valid: because it is necessary to recognise the validity of the purely negative syllogism (kevalavyatirekin), which does not satisfy the second Canon and is therefore dvıpadayukta or characterised only by two clauses of the trairūpya; and because the examples of the two valid types given in the Wheel of Reasons are as a matter of fact of the purely positive type (kevalānvayin) for the Buddhist, who does not admit that there is anything eternal (anabhyupagatanityatvapakṣ) $)^{2}$. It will then be necessary to recognise

[^195]Cp Eugiura pp 52.53 He points out that the Indasu logician does not recognase the particular proposition, and normaily states the "E" prop (No 8 is P ) in " A " form (all S is non-P), and therefore presents bis thesis in " $\mathbf{A}$ " form always From this he dednces the absence of 'mooda' and 'figures' in Indian logic But I think there are traces of the 2nd and 4th figures,-though not of the 8rd
-The two arguments referred to are Nos II and VIII-'Bound 15 noneternal, because a product', and 'Bound is non-eternal because an effect of volition'. There being on the Buddhist view nothing eternal which could be quoted as negatave evidence, both these reasons wonld be classed as purely positive by the Buddhist, if he were omentent And yet he sdmits their valldity.
not only two valid types, but five, ${ }^{1}$ viz., two based on both positive and negative evidence (anvayavyatirekin), two based only on positive evidence (anvayinäv eva= kevalänvayinau), and one based on negative eridence only (vyatirekin-kevalavyatirekin).

Of the seven types added by Uddyotakara to the nine of the Wheel of Reasons (Nos. X-XVI), the first three are purely positive (aridyamănavipakṣa), the second three are purely negative (avidyamänasapaksa), and the last is neither positive nor negative-i.e. no evidence at all 18 adducible (avidyamānasapakṣavipakṣa). They have the characteristics shown in the following tables:

Table of Nos. 10-12 in Uddyotakara's list of sädhyavyäpaka.

N,

Rubric and Example.
10
sädhyatäpatīya-vyäpaka avi
dyamãnavipska.
dyamänavipakq̣a.
anstyah fabda utpattsdharmakato $\bar{a} t$
(Uddyotakars notes that the exsmple 18 given from the point of niew of one who holds that there 18 nothing eternal The example $=$ No II of the Hetucakradamaru Uddyotakars's point in placing it here, as well as at his No. $3=$ HCD No. II, is to mdicste the imconsistency of the Bauddhz)

Remarks.
The kevalanvayin accepted ss vald by the subsequent Nyāya school, e.g. the pot is namesble becane knowsble. (If we took ' everything ' as the minor here, the argument would fall under No. 16 below)
$P$ and $M$ are both infinite in extension whule 8 is of less extension
Rubric: All S is M . All XP is M. There are no X nonP's

[^196]vo
11 sadhyat yapaka tangatiyaska dedavfth avidyamänaz wpakła andyah dabdo bahyendriya pratyahsatzat
(This is the same example ss that given we No $9=\mathrm{HCD}$ No VIII It in given at No 9 in a fuller formsamanyavisesavato smad adibahyakaranapratyahsat oat Had the Bauddha been consistent he would have put his second example of $s$ valud hetu here as a second form of kevalanvayin)

18 sadhyaoyapaka tajfatsyavertı avtdyamanaoipaksa anityah sabdah fravanatpat (again keoalanvayin from the Bauddhe point of vew only )

## Table of Nos $13-16$ in Uddyotahara's list of sädhya$\imath y a ̈ p a k a$

Rubru and Exsmple sadhyavyapaka avidyama nasajatiya vipahnavyapaha Nttyah sabda utpattulharma katpat
(This is the example of on if the viruddhahetus giver in HCD Viz, No IV and by Uddyotakars in his contes ponding No 4 It is given here again to indicate that from the Bauddha point of view this is its ploper rubrio-since on their view all things are utpattudharmake and nothing is eternal)

Bemarhe
Fhis is in form hevalavyati rekin, but obrioual malid as residing in tie zipaksa

Kubric all bis M
There are no $\mathbf{X P}$ s
All $X$ nun $l_{b}$ are $M$
(a angle inatance X non P M is ot course tatal)

| There are no XP s |
| :---: |
| All $X$ nun $l_{b}$ are $M$ (a angle inatance X non P M is ot course tatal) |

Another form of hevalanoaysn -valud if No 10 is veld (9). I heve not met with an example from the Nasyayska standpoint bat an example nould be Ihe pot is name able because vasible
$P$ is inficite in extension but M is of leas extension than P S agan is of leas exten sion than X , otherwiae th rubric would be that of No 12
Rubric All $\mathrm{S}_{18} \mathrm{M}$ somi XP ${ }_{1 b}$ XI There are no $X$ non Ps
A third form of ketalanvayin only differing from the asa dharana fallacy in that the rubric of the latter has prpukaavitt in place of aordyamanat ipal ia Thet is to ssy it is an asidharana with an infinite major term P is mfinite in extension whie S sid $M$ which coin cide in cxtension are less than 1 in extension

No.
Bubric and Example
Remarks
14 sadhyavyāpaka avidyamānasajdtiya oupqkyaikadedaertt। nityalh dabdo bahyondryapratyakpatvat.
(comment ss at 13 , mutats mutandes The example $=$ $H C D$ No VI, and Uddyotakara's No. 5)

15
sädhyavyāpaha avedyamānasajātlya otpaksã̃rttt.
Nedamh nirātmahath jivac charīam ansndriyđ̈dhsthānatvaprasangat
(This example is of course given from Uddyotakara's own standpoint 1.e he sccepts it as valid)

This 18 the uritahetn actepted by Uddyotakara It is asd. dhärana and at the same time kevalavyatirekin. It is valid becallse 'vardharmyam na pyablizcarats' 1 e all three terms conncide in extension. Rubric All S is M

There are no XP ${ }^{\text {a }}$ No $X$ non- $P_{\text {1s }} \mathrm{M}$

16 paksavyäpaka aetdyamäna- The anupasimhärin See below. sapahsaptpaksa
parvaih nityam prameyatedt $\mathrm{S}, \mathrm{M}$ and P all unlimited in extension
All \& 18 M , but there are no XP's nor X non-P's.
(a) The Purely Postive types (anvayin, hevalānva
yin)

There are several pas.ages ${ }^{1}$ in which Uddyotakara seems to say that two of the three purely positive

[^197]
## Inference

types are valid arguments. And yet examination of these passages discloses the fact that he never gives an example of these types which he would himself consider as really belonging to them : the arguments given as illustrations being in every case arguments which are really of the 'positive-negative' (anvayavyatirekin) type, but which would be 'purely positive ' for the Buddhist, if he were consistent. Moreover, the argument for their validity in every case takes the form of an argumentum ad hominem.
' Either the two arguments which the Buddhist gives as llustrations of valid syllogisms are not valid, or else be must admit that the purely positive type is a valid type of syllogism.' There seems to be no passage in which Uddyotakara definitely commits himself to the view that the kevalanvayin is a valid type: though this subsequently became the accepted view of the Navyāyika school. Vācaspati Miśra says that an example, from Uddyotakara's own point of view, of the purely positive type would be ' differences are nameable, because they are knowable, like universals' ${ }^{\prime 1}$. He argues that absence of negative instances does not deprive a middle term of its cogency for this cogency does not depend simply on the negative concomitance 'All X non-P is non-M'-if

[^198]${ }^{1} N V T$ p. 115 1. 21 (on NV p. 481 12) The example he gives hasthe merit of not being s mere trumm, like the stock example 'the pot 'snamenile becanse knowable'. There is an obvions difficulty about naming a otieqe: for a name universalisea, expressing paity in difference. Viseqehere nuat mean the category so named.
it did the ' too restricted ' (asädhärana) middle would bea valid reason-; it depends on its being endowed with essential relationship to the thing to be proved (svasädhyena saha svābhävıkasambandhasālitā); and the fact of its bemg so endowed can be known by a purely positiveconcomitance provided it be unconditioned (anvayamätrenäpy upädhirahitena); just as it can be known by the combined positive-negative concomitance. And the negative concomitance can (in this case) be dispensed with. But where negative instances, X non-P's, exist, the negative concomitance has to be taken into account, to set aside the doubt as to M 's residence in X non-P's ${ }^{1}$.

The question of course remans-How, on a view of inference which makes it essentially an affar of examples, is it possible to be sure that a concomitance is ' unconditioned ', in the absence of negative corroborative evidence? The ' modern ' school has expended much ingenuity in the search for a definition of vyäpti, universal concomitance, which shall cover the case of the 'purely positıve' inference. Gañgeśa in the Tattoacıntämani
${ }^{1} N V T$ p. 116 11. 15-20 The passage desling with the purely ponitive inference extends from p 114 l. 22 to $p 115$ I. 24. The earlier part of it deals with the suggestion that if ne sdmit that in the sbsence of negative examples there is no negative concomitance 'sll X non- P 's are non$M^{\prime}$, this amounts to the admisaion that $M$ does reside in $X$ non- $P$-because the demal of a denial is the affirmation of the thing first demed-Theanswer is that it 18 sbsurd to suppose the presence of $M$ in mero 'indeangnate' or non•entaty (nsrupāhhya) like non-1' which cannot even serveas a locus for the absence of M . When a dying man cannot even drink water sensible people do not suggest that he might take groel! The primerple that denial of denial is sfirmation 18 true only if the original demisl 18 a denial of something. Bat here there were no X non-P's in whoh the presence of $M$ could be demied. For it has been truly said that 1t takes two positive entuties to make a negation (sadbhyam abhavo naripyate, natkena satal), i.e. $M$ and X non- P must both exist before it is posmble to deny that $M$ exists in $X$ non-P.

The western scholastio feels the noed of this sound principle for the hmitation of 'inficite terms' in other connections, as for example when he-
reviews a series of such definitions and rejects them all on the ground that they involve, explicitly or implicitly, reference to a vipaksa, X non- P , in which M is absent, and thus exclude the 'purely positive' inference ${ }^{1}$.

Difficulties also arose in the attempt to draw a distinction between the purely positive inference, which was accepted as valid, and certain inferences which come under the rubric avidyamănasapaksavipakssa (No. 16 of the Tables above), 1 e. an argument of which the minor 'term is 'everything' and in which therefore the major must also be found in everything, so that there could be no negative instance ${ }^{2}$. As there can be no positive instance sapakssa, either, since everything is the pakssa, it seems clear that such arguments must be regarded as invalid on the view which makes inference an affair of examples. For in such arguments no examples, positive or negative, are forthcoming.-And yet it seems obvious that if we can validly argue that the pot is nameable because knowable ', we could just as well argue that ' everything is nameable because knowable '.


#### Abstract

deals with the process of 'inversion' by which All S is P yields the someitimea absurd implacation that some non-8 is non-P. He would hardly mfer that ance all that can be known can be named, therefore some things that are unknowable are unnameable Aud yet he would probsbly not hesitate to 'contrapose' this proposition into the form 'No unnameables are knowsble'-which is equally objectionable to Vicaspati's principle.



${ }^{1}$ See Kerth ILA pp. 145-146 and 118-121 He says that the , difference between 'all can be named because it can be known' and Uddyotakarn's No. 16 'all is eternal (or non-eternal) because it can be known', 18 that in the former "there is a real ground of connection between naming and knowledge - and the teat of reasoning in the school 18 always correspondunce with realify'". This is true but the question remains how this correspondence with reality is guaranteed on the basss of 'simple snumeration'-the absence of negative evidence making the 'mothod of -difference' mapplicsble

There were some who were driven by the logic of their own first principles into admitting the validity of 'the pot is nameable because knowable ', while denying the validity of 'all is nameable because knowable': on the ground that in the former case positive evidence (sapaksas) at least is avalable; while in the latter case no evidence at all is available, the unlimited nature of the paksa excluding the possibility of quoting examples not included in the pakṣa itself and to quote the pakṣa itself as an example of course begs the question.-It was in fact impossible to defend the argument 'all is nameable because knowable ', from the point of view of the logic of sapaksa-vipakṣa: except by the desperate device of allowing one or other of the particulars which constitute the palssa to figure also in the capacity of sapaksa ${ }^{1}$.
(b) The Purely Negative Type (vyatirekin, avìta hetu ${ }^{2}$, kevalaryaturekin)
If there is room for doubt as to Uddyotakara's attitude towards the purely positive inference, he makes up for it by an unequivocal defence of the validity of the

[^199]purely negative type ${ }^{1}$. (No. 15 of the Tables above.) In an argument of this type, since there are no cases of $P$ (other than S) by definition, and since $M$ does not reside in the cases of non-P (for if it did the argument would be a fallacy as violating the third canon-see Nos. 13 and 14), it follows that the middle term is restricted to the minor. In other words it is asädhärana.

Thus the property of possessing vital functions is a peculiar property of the living organism. But it is admitted that a peculiar property of the Subject is a fallacious middle term, designated the 'too restricted reason' (asädhäranahetväbhāsa), in such an argument as 'sound is eternal because the object of hearing '. Must it not then be considered fallacious also in the (supposedly valid) ' purely negative ' argument ' the living organism possesses a soul because it possesses vital functions' ? If not, what differentiates the purely negative type from fallacious uses of a middle term which is restricted to existence in S, the subject of the inference?-Uddyotakara's answer is that the negative reason (vaidharmyahetu) is indeed a ' restricted ' quality (asädhärana); but it is a restricted quality the opposite of which (non-M) is found only in non-P's, and not in P's also,-vaidharmyam na vyabhi. carati.

The condition of validity, whether of a positive or - of a negative argument, is not the mere concomitance of M and P (in the former case) nor of non- M and non- P in the latter case; but, in either case, the avyabhicäritva of the concomitance, i.e. the fact that $M$ is not found with

[^200]${ }^{1} N V$ pp 196-197.
non- P in the former case, and the fact that non-M (the vaidharmya) is not found with P in the latter case. Now in the case of the ' too restricted ' fallacious reason nonM is found with P as well as with non- P : that 18, among things which are not objects of hearing, some are eternal, but some are non-eternal : so that the argument ' sound is eternal (or non-eternal) because the object of hearing ' is invalid. But in the case of the 'purely negative' argument ' the organism has a soul because possessed of vital functions', non-M is only found with X non-Pfor the simple reason that there are no XP's, S being the only P; and M is restricted to S . That is, the organism, 8 , to which vital functions, M, are restricted, is the only thing to which either party would attribute possession of soul, P : therefore the absence of vital functions (nonM ) is only found in things which are not possessed of soul (non-P). Therefore this argument satisfies the condition of avyabhicäritva - vaidharmyam na vyabhicarati- ${ }^{2}$ and is valid.
grester extension than the other terms, while in the inference which is Fahd all three terms have the hke extension" Väcaspsti Míra's account of the avyabhicdrito of a negative reason 18 based on the entirely different princuple that the negative 'major premise' mast have the form All non-P is non-M-sccording to Prsósstapseds's formuls Uddyotakars is content with the unajor premise All non-M is non-P-nee below His interpretstion of adyablucäntoa is that non-M is never $P$ Vacaspatis is thet non-P is never M.
${ }^{2}$ There can be no doubt that the interpretation of this phrase bere given is that which Uddyotakara intended But the actual statement (NV p $127 \mathrm{II} .16-21$ ) presents a difficulty "Yadt tarhy asadhdraño dharmo hetur, nityd prihvii gandhavattvād ity đdayo hetavah prapnuvantı-Na, Thetvarthdparijñant. batyam asddhdrapo vadharmyahetub na punaf vasdharmyam vyablucarath, gandhavattvam ca nityänstyavyabhecärı Tasmad anvayıno vyaţrskinad ca ndnvayapyatirekall hotubhdes nsmittam, kuhto anoayavyatirekayor avyabhicirah "-"It rasy be objected that if a quality reatricted to the subject ( 8 ) is a valid reason, then such arguments ts 'earth-subatance 18 eternal because possessed of amell' will become valid arguments But the objection is besed on a complete misunderstanding of what constitutes as valid resson It is true that the vald negative reason is formed by a quality restricted to the subject Bat in the case of the vald negstive resson the opposite of the qualty which forms the resson is not found in P ss well as in non-P (vaidharmyath na vyabhicaratt)Bosides, in the csse adduced by the objector, the posseasion of amell is as

It amounts to this. If $M$ is only found in $S$, no positive evidence ${ }^{1}$ that S is P will be available. If there is any positive evidence ( XP 's) available it will in fact invalidate the conclusion intended to be drawn (because it will ex hypothesi be a case of XP non-M) : so that absence of positive evidence is a condition of the validity of the conclusion: in other words the argument must be avidyamānasapakṣa in order to be valid. If that condition is fulfilled, the negative evidence is bound to be unformly in favour of the conclusion (assuming that there is any negative evidence forthcoming ${ }^{2}$ ), since the absence of M will be found ex hypothest in all cases outside S , so that the concomitance of non- M and non- P will be invariable.

[^201]The valid purely negative argument, as formulated by Uddyotakara, involves an illncit process of the major term.
'Yävad apränädıma', tat saroamin nirātmakam drş̧̧am iti. aprānādımattvà̀ ca jīvaccharīān nivartate. tasmäd tad-avyabhicări nirātmakatvam api nevartsyati " ${ }^{\prime \prime}$.
oupakfäertts Thus is the vald use of an asädhdranadharma as a hetu $=$ No. 15, the kevalapyatsrekin.
(b) B and M coincide with each other in extensson, but not with $P$, which is unlimited in extension. Rabric, sapakpaprits avidyamōnadrpakga. An exsmple would be 'sound is un object of knowledge because sin object of hearing', which is a good enough syllogism, though it stands condemned on the 'evidence' view of inference, since no negative ovidence is sasilable and the positive evidence goes aganst the couolusion This 18 No 12 above It 18 reslly quite as food an argument as Nos 10 and 11, which are commonily accepted as valid 'purely positive' arguments
(c) A and M comncide with each other in extension, but not with P, which 18 limited in extension Rubric, sopokpäartts vspakpaioftts (No 6 in Uddyotakars's list $=$ No $\delta$ in the Wheel of Reasons) This is the normsl type of the fallacy of 'too rentricted reason', asddhärana hetpabhasa, e.g. 'sound is eternal (or non-eternal) becsuse the object of hearing'.
(d) S and M concide with each other in extension, snd nith $P$, but all three are unlimited in extension. Rubric, apidyamdnasapaksa avidyamdnavipaksa. There being no evidence st all the argument stands self-condemned, on the Indian theary of mference No 16 m the above table, the anupasamharin of later logic But 'sill is nameable because knowable'-which would fall under No 16 -is as good an argument as 'the pot is nameable because knowable', the kevalanvayrn type No. 10. In rejecting No 16 Uddyotakara layn down the principle on which he rejecte it but unfortunately the resding is doubtful. If his principle is that a property unlirated in extension cannot be is valid middle term, this principle would exclude No. 10 (one of the supposedly vahd kevaldnvaprn types), as well as No. 16 and the question whether Uddyotaks accepts the kevalaneayan could be answered in the negative. [It is true th't the other 'purely possitive' type No. 11 (a limited middie with an unlimited major) would not be excluded by this princuple but Uddyotakare always speake of the supposedly valid parely positive types as a pair, and there 18 nothing which woutd suggest that he would accopt one and reject the other ]
(The passsge of the Nydyavirtika here referred to ${ }^{\text {ss }}$ desit with in the note on the Anupasamidirn, below, $p 248 \mathrm{seq}$ )
${ }^{1} \mathrm{NV}$ p. 186 1. 18.

All that is without vital functions is without soul : The living organism is not without vital functions:
Therefore the hving organism is not without soul.
Väcaspati Miśrạ ${ }^{1}$ in commenting on this passage, says that the 'major premise' must be 'converted, (vyatyāsena yojanā) into the form yāvan nirātmakam tat sarvam aprānāādimad drşţam-

All that is without soul is without vital functions.
Nor is there any formal objection to this conversion, from the point of view of those for whom life and soul are of equal extension. But it openly begs the question : for the opponent's position is that some things without a soul (viz., the living organism itself) do possess vital functions. Uddyotakara's formulation appears to avord the petttio, since an opponent who maintains all things to le soul-less would have a formal difficulty in refusing to accept the proposition that all manimate things are soul-less. But in thus avoiding an open begging of the question he merely transforms what is the same difficulty into the form of an illicit major. He is quite aware of the difficulty, ${ }^{2}$ and attempts to meet it by an argumentum ad hominem. The critic of the argument can only substantiate his charge of ilhcit major by adducing, as an example of a thing which is not devord of vital functions and devoid of soul, the subject (pakṣa, S) -the living organism itself for, from the very nature of the argument, there is no other case of a thing possessed of vital functions (not devoid of vital functions) which can be instanced ${ }^{3}$.

[^202]And if an opponent is to be permitted to adduce the Subject (pakşa, S) itself as an enstasus or counterexample, then no syllogism, not even the most cogent, will be safe from enstasrs : and, even in the case of an argument such as ' sound is non-eternal because a product' (which both parties accept as a valid 'positivenegative ' type) it will be possible to object that in the case of sound, the paksa itself, M is accompanied by nonP -i.e. that sound is a product and yet not non-eternal ${ }^{1}$

Uddyotakara's defence of the argument amounts to this.-There is no positive evidence. The opponent cannot therefore point to cases in which vital functions are found in the absence of a soul Nor can the defendant, on the other hand, point to cases in which vital functions are found together with a soul ${ }^{2}$. The case must be argued on the basss of the negative evidence. And here the defendant has it all his own way, from the very nature of the case : for all cases X non- P are necessarily non-M - so that no exception can be forthcoming to the concomitance of non-M and non-P-" vaudharmyam na vyabhicaratı '".

The defence is ingenious; and it is not altogether misplaced ingenuity. For it is true that the nerve of the argument is the difference between the subject and all other things. But of course mere negation can prove

[^203]${ }^{1}$ NV $\mathrm{P} \quad 127111$ pakequyabhsedropadarfane sati bakyam oaktum 'anvayint tu hetau tabde nityatoam astu sath kytakation' its.
"Ine footnote 8, p. 946.
nothing ${ }^{1}$ : and the weakness of Uddyotakara's posi-tion-a weakness inherent in the view that inference is an affair of ' evidence ', arguing from particular to particu-lar-is that he feels himself precluded from admitting the subject, S , itself as evidence. But 'Difference ${ }^{\text {' }}$ requires two sorts of evidence-positive as well as negative : and to insist that the argument is 'purely negative' is to exclude the positive factor.

## (c) The Antpasamhärin ${ }^{3}$

This is a syllogism in which, all the three terms being of unlımited extension, there are no examples available, and the middle term is of course restricted to the minor (asädhärana). Uddyotakara himself treats it as a case of the use of an asädhāranadharma as a middle term.

[^204]As such it has to be differentiated from the valid 'purcly negative' type. "Yah punar asädhāraṇo dharmah pakṣa eva kevalam, yasya tattulyavipakṣau na stah, sa kasmān na hetuh? Yathä sarvam nityạ̣ sattoāt ${ }^{\prime \prime}{ }^{\prime}$ "Why should not a middle term which is a peculiar property residıng in the Subject (S) only, and with respect to which neither positive nor negative examples exist, be regarded as a valid reason? e.g. everything is eternal, because existent." The principle which was used to differentiate the valid 'purely negative' type, No. 15, from the fallacy of the ' too restricted middle ' (asādh $\bar{a}-$ ranahetvābhāsa)-the principle that non-M is never found in XP's but always in X non-P's- $1 s$ not applicable. because there are no cases of non-M, nor of XP, nor agam of X non-P. Another principle is required, and Uddyotakara states it The text runs:-satyam asädhäraṇo na vyävrttah avyäverte hetuh. As it stands this does not seem to give any sense. The editorial note expresses an opınion that avyäretto hetuh is the true reading: but this again does not seem good sense. Jhä's translation imples a reading: satyam, asädhäranah. na vyāvrttah. avyäverto na hetuh. "True • the property of existence is a unique one; but it 18 one that is not excluded from anything; and by reason of this non-exclusion it cannot be a true negative Probans." This is good sense, though the principle enunciated-that an unlimited middle is never valid-would also condemn type No. 10, one of the supposedly valid ' purely positive' types (' the pot is nameable because knowable'). It is possible that Uddyotakara wrote avyāvrtto 'vyävrite na hetuh-and meant by this, " an unlimited middle in an unlimited minor is not a valid reason ". This would exactly describe the anupasamhärin.

The examples which Uddyotakara gives-all is eternal because existent, or because knowable,-are both

[^205]false, because as a matter of fact the major of the argument (eternality) is not unlmited in extension (although the person who proposes the argument must be presumed to hold that everything is eternal-otherwise there could be no excuse for putting the argument under the rubric avidyamänavipakṣa). What would he have said of an argument which does really conform to the rubric, and of which the conclusion therefore cannot but be true,such as the stock case ' everything is nameable because knowable '? He must have condemned it if he adhered to the view of inference as argument from like and unlike cases: for it is a necessary corollary of this view that about everything you can prove nothing.

## Note A.

> The introduction of avadhäranas into the trairūpya.
> Uddyotakara's criticism ( $N V \mathrm{pp} .58-59$ ).

In his criticism of the three canons of the syllogism (trairūpya), as formulated by Diñnăga in the line Anumeye 'tha tattulye sadbhāvo nāstita' sati, Uddyotakara points out that, on the one hand, it is necessary to read into them restrictive forces (such as are expressed by 'eva' in various positions) : and that, on the other hand, such restrictions cannot be read into the formula without making the whole self-contradictory, and some of the parts superfluous.

The formula says that a vald middle term-
i. resides in the anumeya (sädhya),
ii. resides in what resembles the anumeya (i.e. in sapakṣas or positive examples),
iii. does not reside in what is not like the anumeya (i.e. in vipakigas or negative examples). That is to say : SP is M ; XP is $M$; $X$ non- $P$ is not $M$.
Uddyotakara says that the first clause will fail to exclude such arguments as ' atoms are transitory because
they are odorous,-like a pot ': i.e. arguments which are invalid because the middle is sädhyaikadesavrtti, i.e. resides in part only of the Subject, viz., atoms (since earth-atoms only are odorous, and no other kind of atoms $)^{1}$.

In order to exclude such arguments it is necessery to find somewhere in the trarrupya the requirement that the middle term should be sädhyavyäpaka, and not merely sädhyaikadesavrtti. That is, it is necessary to find the requirement that all SP should be M (which constitutes paksadharmatā).

The Bauddha now maintains that this requirement can be read into the first clause of the formula-anumeye sadbhävah-in virtue of a restrictive force (avadhärana) which is implied in the statement. Uddyotakara saka. what restriction is intended? Two different restrictions are, in the first instance, possible-
(a) anumeye sadbhāva eva, existence in the subject;
and (b) anumeya eva sadbhāvah, existence in the subject.

[^206]But the latter is ambiguous. Does it stand for (i) bhavaty evänumeye sadbhāvah, or does it stand for
(ii) anumeya eva bhavati sadbhāvah?

In the form (1) you are asserting emphatically, as against the suggestion that M and SP do not co-exist, that ' there is existence of M in SP' (asambhavo nivartyate, nom-co-existence 18 set aside) . but you do not indicate whethet all SP is M or only some SP is M . So that a restriction in this form will be of no use. In the form (ii) you are asserting that the concomitance with M . is found in the anumeya, but nowhere else. In that case you are contradicting your second canon, which tells us that the middle term must be found elsewhere than in the anumeya or SP,-to wit, in the sapaksa or XP. And the restriction does not give the required force in any case : for it says that ' only SP is $\mathrm{M}^{\prime}$ '; and this does not imply (what we require) that ' all SP is M '.

As to the first main alternative, (a) above 1 e taking the 'eva' after the second word (uttaram ravadhäraṇam, i.e. anumeye sadbhāva eva,-contrasted with pürvam avadhäranam, i.e. eva taken with the first word in the sentence, anumeya eva sadbhāvah) : the Bauddha says that this gives the meaning of a vyäpti (tasya vyaptir arthah). "Even so, ${ }^{1}$ it is the anumeya, SP, that is 'distributed' by the universality of predication here (avadhäritain vyāptyā)-not the property, viz.,

[^207]connection (dharma) : for the princtple is that the restriction applies to something other than that to which the particle eva is attached (yata evakaranam, tato 'nyatrā vadhäranam iti). That is, when the eva, 'only', is attached to the predicate (sadbhāva, in the statement anumeye sadbhāra eva), it is the subject of the proposition (anumeya, here) that is delimited (avadhärita, i.e. 'distributed'. Cf. the formula of our schools logic ' only $P$ is $S=$ all $S$ is $P)^{1}$.

By the addition of the restrictive particle to con-comitance-with-M, the anumeya ( $S P$ ) is reatricted (to concomitance-with-M, i.e. is 'distributed'-niyata); but 'concomitance' 18 left undıstributed (prasrta), owing to there being two possibilities, viz., equipollence and greater extension (ryāptyatvvyāptıbhyām, i.e. it may be that all cases-of-concomitance-with-M are cases-ofSP; but it may also be that only some cares-of-concomit-ance-with-M are cases-of-SP) ${ }^{2}$

But if $M$ extends beyond SP, there will be two sets of cases left over to which it might extend,-cases of $P$ other than SP; and cases of non-P. It may be admitted that the Buddhist formula rightly excludes the extension of M to non-P in its third clause, nāstitā 'sati. But then the second clause tattulye sadbhävah becomes pointless, seeing that all that the second clause desires to assert is

[^208]simple concomitance (i.e. not universal concomitance) of $M$ with cases of $P$ other than SP : and this has already been provided for by the fact that you have interpreted the first clause in such a way as not to exclude an ativyäpti, or extension of $M$ beyond SP to other cases of $P$.

The Bauddha replies that the second clause is stated for the sake of a restrictive force, again, which is to be read into it. Uddyotakara asks again-what restriction is meant? Are we to understand the second clause to mean-
(a) tattulya eva sadbhāvah?
or (b) tattulye sadbhāva eva?
The former interpretation is impossible, because it 'distributes' the predıcate, sadbhăva, so that the proposition would mean that M's existence is restricted to XP's : whth the result that this latter clause would sublate the former, which asserted that M is found in $\mathrm{SP}^{1}$. It is not possible to say 'feed only Devadatta, and Yajnadatta'; and so, here also, the sentence 'the middle term exists only in XP's, and in SP', would be the language of a lunatic (unmattavākya) ${ }^{2}$. If you adopt the other alternative and interpret the clause to mean tattulye sadbhãva eva-the middle term must exist in similar cases, XP's,-then you exclude, as invalid, middle terms which reside in some but not in all simılar cases

[^209](sapakşuzkadesavertti, i.e. the normal valid 'Barbara' in which P is greater in extension than M-to use the language of the western schoolman). In that case your middle term which resides in part only of the things similar to the Subject, such as the middle term prayatnanāntarīyakatva ${ }^{1}$, would not ${ }^{3}$ be a valid middle term.

What the Bauddha wishes to say is that M must befound in some (not necessarily in all) XP's. Uddyotakara's point here merely is that his formula does not succeed in saying this,-not even with the help of 'avadhāraṇas'.

Elsewhere Uddyotakara raises his real objection, which is that a valid argument need not satisfy this condition. For a 'purely negative' argument is valid, i.c. an argument in which there are no sapakṣas.

Uddyotakara now proceeds to the criticism of thethird clause of the definition.
" The clause nāstita 'sati has been formulated without reflection. To say that the hetu is not found in what is not (asati) is absurd on the face of it: for that which has non-existence as its character is nothing; and nothing

[^210]cannot serve as a ground or support (àdhāra) of which something can be denied ' ;

The Bauddha makes the usual reply-this clause too has the purpose of avadhärana, restriction. Uddyotakara sasks: what is restricted? Do you mean (1) nāstitaivā 'sati? or (2) asaty eva nāstitā? If the former, the clause is superfluous, for it would be understood without mention $^{1}$. Suppose then that the latter, asaty eva nästita is the meaning. Then an argument like 'this is a cow, because it has horns' can clamm the title of valid reason. For the non-existence ( $n \bar{a} s t t t \bar{a}$ ) of horns is certanly restricted to what is other-than-cow, and so the condition asaty cva nästz is satisfied. though the condition nästy eva would not be satisfied.
asaty eva nāsti means that M is absent only in nonP , horns are absent only in non-cows. That is, All creatures without horns are other than cows, or, only creatures other than cows are hornless. This condition is satisfied.
asati nāsty eva means that M is only absent-never present-in what is other than P. X non-P's are only non-M, or, all non-P's are non-M. This condition is of course not satisfied by the argument, for we cannot say that All non-cows are hornless, or that only hornless creatures are non-cows. This is of course the essential condition, as expressed in the later formula asattvam eva vipakṣe, i e. the hetu must be absent in all the vipaksas And Uddyotakara's only objection to this formula is that it has already been stated in tattulya era sadbhävah ${ }^{2}$.

[^211]Note $B$.
Dharmakīti's doctrine of the samucciyamänãoadhäraṇa as criticised by Väcaspati Miśra (NVT p.129).

The difficulty is that the Bauddha has so interpreted the first two clauses of the trairupya, by reading 'avadhàrana's' into them, as to make the first canon state that the middle term must reside in the subject of inference (anumeya), while the second canon states that it must reside in things which resemble the subject only ${ }^{1}$. But if it is to reside only in things like the subject, then it seems to be excluded from residence in the subject itself : so that the second canon seems to contradict thefirst. For, as Uddyotakara puts it, only a lunatic would say 'feed Devadatta only,-and feed Yajñadatta'. Väcaspati interprets this remark in the sense which it clearly bears, i.e. as an illustration of the contradiction of the first clause by the following clause (pūrvapadena saha virodhe nedarsanam äha Na HI bhavatiti-NVT p. 128122 ) He then goes not to state the doctrine that contradiction in such cases can be awoided by understanding the restriction to be aggregative ( 1 e. if the 'only' applies to the aggregate Devadatta-and-Yajñadatta, there is no difficulty). "The opponent suggests that in saying that the middle term must reside in the subject $S P$, and in the sapakṣ, XP, only, an 'aggregative restriction' is intended, i.e. the 'only' restricts the middle term from residence in vipaksa's X non-P's, but not from the subject, SP. (samuccīyamānāvadhāranam vipaksamātrād vrttim ryavacchinatti, na tr anumeyāt). An illustration is to be

[^212]found in the sentence: 'In the beginning he generated from himself two sons,-Nara and Nārãyaṇa only (Naram ca Näräyanam eva ca)'. It 18 with a view to this suggestion that the Värtika says 'and so here also, the statement that the middle term exists in things like the subject only, and in the subject, would be the language of a lunatic ${ }^{1}$. For, if it were a case of aggregative restriction, the word 'only' would be attached to the corresponding word in both clauses, i.e. it would be attached to the word anumeye in the first clause (anumeya eva sadbhāvah, M must be found in SP only) just as it is attached to the word tattulye in the second clause (tattulya eva sadbhāvah, M must be found in XP only), in the sense of excluding M from connection with anything else. (In that case we could have an aggregative restriction, or restriction applying to the aggregate SP -and-XP-'M must reside in SP-and-XP only'.)
-But if we thus read the first clause as meaning that ' M resides only in SP' we should (as pointed out before) be admitting, as valid, a middle term which resides in a part only of SP (anumeyaikadeśavrttir api hetuh syāt) ${ }^{2}$ And (in the sentence quoted as a parallel. 'he generated two sons, Nara and Nāräyaṇa only') it is certainly not the case that the particle eva ('only') is attached

[^213]to the word Nārāyaṇa in the sense of precluding union (of the character of being generated by the being in question) with anything else (anyayogavyavacchedena), while it is attached to the word Nara in the sense of precluding from Nara non-union (of the character of being generated by this being-ayogavyavachedena) ${ }^{1}$.
-Very well then (rephes the Bauddha), it can be maintaned by a person who wishes to avoid applying the restrictive particle in different senses in the two clauses, that the particle eva is used in the second clause also in the sense of precluding non-union with M in the case of the sapaksa, just as it is used in the first clause in the sense of precluding non-umon with M in the case of the anumeya.--This is the doubt which the Värtzka raises in the words 'If you adopt the other alternative and interpret the first clause to mean fattulye sadbhāva eva, etc.' ' and it disposes of the doubt in the words 'then you exclude as invalid middle terms which reside in some but not in all similar cases ${ }^{2 \prime \prime}$.

After some further discussion ${ }^{3}$, the argument contmues as follows. The Bauddha urges that " It

[^214]cannot be said that the two sentences cannot unite into a single sentence on the ground of a contradiction betweeen them. No such contradiction can be shown to exist, seeing that the exclusion from other things of connection with the middle term (anyayogavyavacchedasya) which is asserted in the statement that the middle term resides only in thinge like the Subject (tattulya eveti) can also be understood as having reference only to things unlike the subject (and not to the subject itself. vipaksamătravisayatvenäpy upapattau). Therefore the alleged mutual contradiction of the clauses is to be stated as turning on the fact that their meaning (like the meaning of all words, on the Bauddha's 'apoha' theory) is the exclusion of what is different ${ }^{1}$.

[^215](Well, mutual contradiction can be established from this point of view.) Thus • in the clause 'The middle exists in the Subject' (anumeye sadbhävah), the meaning (of the words and of the clause-padärtha) ${ }^{1}$ will be: 'The middle exists, i.e. does not fail to exist, in the subject, and it exists in the subject, i.e. not in what is not the subject' (anumeya eva, nānanumeye, sadbhäva eva, $n \bar{a} s a d b h \bar{a} v a h)^{2}$. And thus the absence of the middle from the sapakssa, as well as from the vipaksa, has been stated! In the same way also in the clause 'The middle exists in things like the subject' (tattulyasadbhäva) the meaning of the words (or clause-padärtha) will be 'The middle exrsts, 1 e docs not fail to exist, and exists in the sapaksm, i.e. not in what is not the sapaksa'. And thus its non-existence in the Subject is declared !

And if you say ' we do not assert (na ca . . iti cet)" possubiluty of an aggregation (samuccayasambhara) of the meanings of the terms (padairthayoh) 'subject' and 'thing like the subject', as mutually exclusive meanings (parasparaparīhäraratoh) but we assert actual aggregation together (parasparasamuccayasadbhāva), on the ground that both terms alike signify exclusion of simply what is different from the subject (nipakseamātravyävettiparatrat ${ }^{4}$ " -then our reply will be that this is

[^216]
#### Abstract

impossible (na); because in that case 'what is not a tree' and 'what is not a cow' would refer to one and the same substrate (i.e. would be identical, sämānädhikaraṇya), since the meanings of the terms 'tree' and 'cow')' will be indistingushable in so far as both alike signfy exclusion of elephants and so forth ${ }^{2}$.


non-1 and this 18 the vital sspect of the oipahia for the parposes of syllogram,-that it is non-P But oipahsa, in tho sense of conerate cascs of non-P, also has a doubtful contrast on the one hand with the concrefe SP-it is non SP and on the other hand with the concrete XP-it is nont $X P$ And in this sense it is not true that $S P=X P$ (the equation whel the Bauddhe really ams at making) becanse both alike exclude the vipahaa 8P excludes non-Sl' and XP excludes non-XP aud they are differnt because they exclude different things,-even on the apoha vien of the meaning of terms unless the Bauddha is prepared to admit that a cow 18 a tree on the groumd that cou =-not-non-cow, and tree=not-non-troe. and so both excludc the rame thing-seang that non-cou =elephanth, e'c, while nod-tree also $=$ elephants, ete '

In other words, bipaksa (as mesning what is other than the pakar or anvmeya) shares in the ambiguty of the twim pahisa or anumeya. which sometroes means abstract P and sometrues concrete SP Tho Banddha has formulated his trairipya or canons of sytlogism as an sffar of concrete $5^{-}$ and XP, however-not in terms of relations betueen an sbstract 8 anu an abstract $P$ But he now wishes to profit by the ambigusty of the tern anumeya or paksa, so ss to argno that SP really=XP in ao far as both cxclude what-1s-other-than-the-paksa,-which he now interprets to meas what-is-other-than-P VEcaspati honever holds him rigidly to the other meaning of anumeya or pakfa, viz., the meaung SP and thereby to the other meaning of dipaksa, viz, the meaning non SP
(Väcaspati's attitude will lead to a difficulty which he doen not rasse, viz., that the sapaksa 28 udentical with the pipakga, in so far as both are other-than-SP This may explam Dharmakirti's choice of the term asa
 to entan the no less undesirable consequence that asapaksa $=$ paksa, as both excluding the sapakna)
${ }^{1}$ näorkfo 'gavi ty anayor apt hastyadinuppttmatraparatnenabhunnärthayoh sämänädhtkarantiaprananqät. (The na stands alone, referring to the sti cet of the preceding clause)

The general meaning 18 that the apphcation of the apohavada to justify the identification of antmeya and sapahia-SP and XP-would prove too much for at could siso be spplied to prove that a cow is a tree If SP and XP are identical in so for as both exclude non-P, then a cow and a tree are identical because both exclude elephante and other things.

[^217]
## CHAPTER IV

## THE PROBANDUM

The nature and form of the probandum (anumeya), and the relation of the 'terms ' in inference.

Bicaning of the problem-Dinnagga on the probandum-Kumărula on the natnre of the "terms" in inference, and on the 'probandum'-Cddyotakars's critique of theories of the probandum-Hıs attack on the "major premuse", 1 e the notion of inseparable connection in the abstract (avınäbhdøa)-Hıs own view of the probandum-Kumärila on the fornt of the conclusion (=rejection of "Fourth Figure" argumenty)-Kamarila's reference to Uddyotakara's theory.

## EECTION 1 MEANING OF THE PROLLEM

Vātsvāyana, in commenting on the sütra (NS I i. 5) in which inference is described, gives an illustration of purrvarat inference,-' fire is inferred through smoke' (dhūmenäqnih. NBh. p. 19 l. 2) He notes elsewhere the ambiguous use of the term 'probandum' (sädhya), pointing out that it is used to mean either the pronerty qualified by the thing ( sP ) or the thing qualified by the property ( Sp )-sädhyam ca dvivudham: dharmivusisto va dharmah, sabdasyānetyatvam: dharmavisisṭo na dharmī. anityah sabda iti (NBh p. 41 1 10). But he does not specifically raise the question which Dınnā̆ga, Uddyotakara, and Kumārila discuss :-What precisely is it that is inferred in an inference ${ }^{\text {a }}$

[^218]
## Four ciews of the inferendum

The form of presentation tends to conceal the importance of the issue which is raised in this discussion. We are told that some held that we infer ' fire * from smoke, others that we infer the relation between fire and hill,--that Dinnn̄ga rejected these views and held that we infer 'fiery hill', -while Uddyotakara rejected Dinnaaga's teaching in favour of a doctrine that we infer 'fiery smoke.' The statement is, m a sense, accurate; but it conveys very little as to the real point at issue We are told again that Uddyotakara denies universal connection (aninābhāna) of characters and takes exception to the assertion that wherever there is smoke there is fire. In a sense, again, this is true; but it gives us no understanding of the real meaning of Uddvotakara's apparentlv suicidal attack on the maior premise. And the texts themselves, in spite of the deceptive simplicity of their phrases, do not say what they mean they are easy to construe but difficult to understand

The most interesting thing in the discussion is 1 Tddyotakara's rejection of the major premise and his insistence that M and P have no connection except in S : and that the S again is not any S that happens to show M, but is M individualised,--SM (which is the meaning of the doctrine that what we are proving is, not that this hill is fiery, but that this smoke is fiery). It has certain affinities with the Aristotelian doctrine of 'essence', and Uddvotakara's attack on the majo: premise is of permanent value But his parimaria (the realisation that SM is essentially SMP)

[^219]was not developed into a positive doctrine of individual essences which might have been a constructive substitute for the ' vyäpti' or abstract universal. And in any case, the doctrine of essences, whatever its philosophical value may be, has not proved easy to formulate as a workable logical doctrine. And it is not perbaps surprising that the $n y \bar{a} p t i$ doctrine held the field in India, despite I'ddyotakara's criticisms: just as the teaching of Aristotle's Pror Analytics (or the schools logic which developed out of that tenching) has m the West supplanted the more truthful and therefore less easy teachings of the Posterior Analytics. Logie in practice is a rough-and-ready art, and tends to the convenient rather than the truthful formulation. Thus both in the Fast and in the West the great class of reasonings which develop relational concepts nas been ignored in the formulation of infer--nce for they do not proceed from a $v y \bar{a} p t i$ or major premise on the one hand; nor do they lend themselves to formulstion under Uddyotakara's interpretation of the dharmidharmabhāra rubric.-In another aspect Uddyotakara's doctrine is a re-assertion of the original Indian: view of inference as an affair of examples : for it insiats that the connection of properties is in the concrete, and that (as J. S. Mill put it) " nothing is added to the evidence "' by taking the properties in the abstract and asserting their inseparable concomitance apart from what possesses them.
section 2 diñãga's discession of the probandum
Dinnāga refers to three solutions of the problem, and accepts the third

The quality $P$ as the probandum
(a) Some say that from one quality $M$ we infer another quality (dharmāntaram) P.-The objection to
this account of inference is that when $M$ is presented in experience it is either experienced with P -in which case we are not inferring anything new now, when we infer ' $P$ ': or else $1 t$ is experienced in the concrete instance XP.-in which case we ought to infer not $P$ in general, but that particular concrete XP.

The relation between $S$ and $P$ as the Probandum
(b) Some say we infer the relation between $S$ and $\mathbf{P}$, arguirg that neither S nor P can be the probanclum; since both are already known -Dińnāga objects that (i) the anumeya (in one sense) must be universally predicable of the middle term. But we do not say that ' all smoke 18 a relation to fire' We say that it is fiery. (ii) The anumeya (in another sense) is the thing qualified by the property But we do not say that ' the relation is fiery'. We say that the hill is fiery. Language bears witness to the fact that the anumeya is (in one sense) fire, and (in another sense) the hill, i.e. it is S-as-qualified-by- P ,-not the relation between S and P . The relation does not show these two aspects (sambandhe ' $p \imath$ dvayam nästi). Besides, if ' relation' were the object of the inference we should use the genitive case (parvatasyägnur asti) instead of the locative (parvate 'gner asti). It is true that we may express our conclusion in the form parvato vahniman, -the hill possesses fire: and 'possession' is (according to the grammarians) just the significance of the gentive case. But this 'possession' is not the primary object of the assertion, being on the contrary only a subordinate element in the assertion (aväcyo 'nugrhitatvät)-nor is it what is asserted as concomitant with the middle term in the major premise [the major does not take the form "wherever there is smoke there is possession of fire."

It takes the form " wherever there is smoke there is fire.' $]$
$S$-qualified-by-P as the Probandum.
(c) What is inferred is the thing-as-qualified-by-the-property,-S-as-P. This is Dıñãga's own view. " The invariable concomitance of the mark with the property is seen in other cases. and being established therem it will prove the subject as joined with the property (i.e. it will prove S-as-qualified-by-P)."

The lines from Dinnāga in which the above discussion is embodred would hardly be intelligible in themselves. But the first part of Kumärila's treatment of the topic is an exactly parallel passage,-written probably with these lines of Jinnäga in view. The result is that Pärthasārathi Mıśra's lucid comment on the passage in the Slokavartika provides at the same time a valuable comment on the fragment from Dinnāga.

It will be convenient to translate first the first half of the Slokavärtika passage, as being parallel to the criticism of Dimnaga . then to deal with Uddyotakara's criticısm of Dınnāga • and finally to translate the second part of the Slokavārtıka passage
section 3 hemarila on 'terms' in inference
[Slokavärtıka, Anumānapariccheda, 23-34]
Upāttaś cazkadesābhyā̀in dharmy apy atraikadeśavān
Sabara's Bhãsya on MS I.1.5 (p.10) 1.11) has defined inference as $\jmath \tilde{n} a ̄ t a s a m b a n d h a s y a i k a d e ́ a d a r \delta a n a ̄ d ~ e k a d e s ́-~$ antare 'samnikrsṭe 'rthe buddhih-' 'knowledge, on the part of a man who knows the relation between the two terms, of the second term, which is a thing not present to
sense, as a result of experience of the first term ${ }^{1}$." Kumarila supposes an objection to be rased to this definition on the ground that it mentions the two terms ( M and P of Western logic), but farls to mention the ekadesin or ekadesavat-the possessor of these two 'aspects' or 'terms'-the Subject (S of Western logic : paksadharmin, in Pārthasārathı Mı́sra's termınology :=anumeyadharmin, sädhyadharmin). He answers the objection in this line :-
" The Subject also, the possessor of the 'terms', is comprehended in the definition by mention of the two 'terms' ".

24a. apārārthye hi dhūmädeh svarūpair navl.adesatā
For things like smoke (and fire) would not be terms at all simply in virtue of what they are in themselves; since they would have no reference beyond themselves '".

He is here justifyıng his statement that mention of the Subject is comprised in the use of the word 'ekadesa', 'term'. The meaming is that to call 'smoke' and 'fire' terms (ekadeśa) is to imply a Subject-since only in reference to a Subject could they be spoken of as ckadeśa.

[^220]24b. sa eva cobhayātmā'yam gamyo gamaka cva ca
" And it is just this, the Subject, namely, that is both at once, i.e. both probandum ( P ) and probans ( M$)^{1}$.

25a. asiddhenaikadeśena gamyah suddhena bodhakah
" Through the unknown aspect of it the Subject is probandum-to be proved : and through the known aspect it is probans '".

Pārthasārathı Mıśra apparently says: "An ekadeśa or 'term' could not be the anumeya or probandum, because the term is apprehended at the time of grasping the connection (between the terms M and P ); and that which is already apprehended cannot (as such) constitute the probandum-the thing that is to be proved. It $1 s$ this fact that the Subject (paksadharmin) is the probandum, that is declared in the Bhäşa by using the phrase 'not present to sense' (tasya sambandhagrahanasamaya eva grhītasyā 'nanumeyatvāt. Tad udam paksadharmino 'numeyatvam asamnikrsṭagrahaṇena Bhăsye darsitam)'.

On 25a Pärthasārathı says. "He dıstınguıshes the two aspects, as probandum (yamya) and probans (gamaka) in this line. The being probandum (anumeya) is in respect of the character of having fire (vahnimattoant-

[^221]manā), which is asiddha in the sense of not being known by any other source of knowledge (i.e. other than the inference 1 tself) - the being probans (gamaka) is through the character of poseessing smoke,-which is known by another source of knowledge' (i.e. by perception. The hill is percesved to have smoke, but the being on fire of the hill is to be inferred).

He introduces the next line with the question: " How then is this anumeyakkadesinn, or Subject qua probandum, to be brought in (upädātavya) in the syllogism (sädhanarākha) "?

25b. atah prthag abhinno vā prayoktrūuàm vivakṣayā
" It is expressed differently according to the intention of speaker; sometimes as apart from, and sometimes as one with, the terms '".

That is, you may indifferently express your inference in the form " the hill is fiery because smoky ", or in the form "there is fire in the bill because there is smoke there'."

Pärthasārathı explans: prthag ekadessäbhyãm vaıyadhikaranyena, abhınnas tābhyā̀m sāmānādhilaranyena.
-It is apparently merely a question of the form of the proposition If M and P are expressed as adjectives of S , it is nald to be a case of sāmänädhikaranya. since when a thing is expressed as an adjective it is eo ipso referred to the substantive as its locus-the adjective being samänädhikarana with its substantive. But two substantives are vyadhikarana, different in respect of locus, because each is its own locus. When an adjective

[^222]is predicated of a substantive, the relation is that of iden-tity-kdatmya, or abheda', eg. in 'the hill is fiery'
26. anityah kṛtako yasmād dhūmavãn agnimān iti dharmyabhinnam upādānam, bhedo 'trägnir itī̀lq̧e
" In such propositions as 'sound is transitory because it is a product', 'the hill being smoky is fiery', the predicates are stated as identical with the subject: whereas in such a proposition as 'there is fire in it', fire is something separate from the hull, and is not predicated of it by way of identity ".

Kumārila seems to say - It 18 a matter of indifference whether you state the members of your syllogism ' in logical form' or not. That may be left to the taste and fancy of the persons syllogising (prayokṭ̄nām vivakṣā). But in the verses which follow (and which are closely parallel to the lnes from Dinnāga) he proceeds to point out that this does not mean that the probandum of the inference can be thought of as a mere ' P ' out of relation to the Subject On the contrary, the probandum is S-as-qualified-by-P. Neither $P$ alone, nor $S$ alone, nor even S plus P , nor even the relation (as such) between

[^223]S and P , can constitute the thing to he proved Your conclusion need not be a proposition 'in logical form' joining P to S by a copula of identity (tädātmya, abheda), but it must be a judgment (viśsṣ! añãana), -in other words S and P only constitute the probandum (or conclusion) in so far as they are related as qualification and thing qualfied (visesanavisessyatvam äpannaw)
27. ekadeśamsssstaś ca dharmy evātrānumìyate na hi tannirapekṣatve sambharaty anumeyatū
28. na dharmamätram siddhaťāt, tathā dharmī, tathobhayam ryastanil räpi samastam rā svätantryeñānumīyatc.
29. ekadeśasya lingatvan sādhycnāmugamo 'sya ca drayam ca na syād ṣ̣̣am sat pahseṣı eṣu yathāhramam

30 anityatrādayo dharmāh hrtahatlıādayo na hi

 mitau, na cāpy anugamas tena lingasyeha nidarsyate.

27 and 28 "It is S (dharmin) as qualified by the aspect on term (ekadesa) $P$ that is inferred : for without reference to this (tad=dharman) there could be no probandum (lut., the state of being anumeya is not posssble). Neither the quality, I , alone, nor the subject, S , nor both of them, collectively ${ }^{1}$ or distributively, can in itself be the thing to be inferred : because each of these things, in itself, was known prior to the inference."

[^224]29. "Among these alternatives, if we take the cases in order (yathähramam) we find either (1) there would be no aspect of the pakşa to serve as a middle term (ekadeśaşya lingatramin na syãt); or (2) there would be no universal accompaniment of the middle by the major (sädhyen-
 be absent (ekade'́asya ca lingatvani, sādhyena cānugamah -these are the 'dvaya', the par of requirements) • although these requirements are desured to be present (istanil sat) "'.
i.e. taking the possibilities yathähramam -
(1) If our anumeya were 'non-eternality ', krtakatva would not be an ekadeśa of the anumeya 'noneternality' so as to serve as the middle term of the argument for, as he puts the matter in the next verse,30 (a). "The qualities, non-eternality, etc., are not the qualities, 'being a product,' ete, which are to scrve for middle terms'. [In plan English we cannot say 'noneternality (of sound) is the quality of bemg produced'we cannot say 'the mortality of Socrates is lus manhood It is not. Mortality $1 s$ mortality, and manhood is manhood Men are mortal, and mortals may be men - but that requires a different formulation].

30 (b) (2) If agan our proposition were about the existence of sound ${ }^{2}$ you could not formulate a major premise in which the middle, krtaka, was asserted as umversall? accompamed by this anumeya, i.e., by sabda. It would be absurd to say "all products are sound • like a jar"' (dhvanınānugamo navsäni. eṣām means hṛtakatvädī$n a ̄ m,-m i d d l e ~ t e r m s ~ h i k e ~ k r ̣ t a k a) . ~$

[^225](3) If agam our proposition were about sound-and transiency ${ }^{1}$, then nobhayasyobhayena vā,-which 1'ärthasärathı explains by sayıng " na krtakatvasyobhayadharmatvam, sabdamātradharmatvāt '". The meaning of Kumārila's words, confirmed by the phraseology of $29(b)$, drayam ca na syād, seems to be that " there would not be co-existence of both the requirements (ekadeśasya lingatvam, and sadhyenānugamah) with both, i.e. with dharma plus dharmin, taken together as being the anumcya Pārthasārathi's comment shows how ekadesasya lingatvam is precluded,-viz., kriakatuasya sabdamātradharmatvāt. You cannot say that 'word and noneternality are effects " because though 'word' is an effect, non-eternality is not And sädhyenänugamah is also impossible, for we cannot say that " where there is hotakatea, there there is sound-and-transiency: as in a jar '"-for the reason explaned under (2) above.
31 (4) The fourth possiblity is that the relation between the hill and fire, hetween sound and transiency, might be the anumeya. This as ruled out in verse 31 on the ground that the relation is not referred to in the inference either by using the word sambandha or by the use of a genitive (possessive) case-parvatasyägnh ${ }^{2}$, also on the ground that in the major premise (nidarsana) we do not say that the middle is universally accompanied by 'the relation between S and P .'

[^226]32-34.
na cākāaradvayam tasya śādhyasādhanabhāg bhavet tasmād arthagrthïtatvān matubarthasya gamyatā na svätantrycna mantavyā yathā dandyādı́sabdatah vtsisş̣ārthapratītau syät sambandho näntarìyakah vıŚsanavısesyatram àpannau drầv imāv atah gamyäv
"Nor has the relation the two aspects (so that) it could play the part both of sädhya and sädhana (as the genume anumeya can do). Therefore the possessive affix mat (parcato vahnimān dhūmarattrāt) can only claım to be gamya or sādhya in so far as it forms part of the thing, and it is not to be considered such in its own right just as in knowledge of $n$ qualified object derived from a word like danden, 'having a stick' ''. (For, in this illustration, the stick is mentioned prakrtyā, i.e as the princlpal thing, while the relation is only referred to pratyayena, i.e through the suffix Pārthasārathi, ad loc) "It is only where there is the thought of a thing qualified
vorce, or by the verb termmation where the verb is in the active volce,-for
the first or nominative csse-inflection 18 not considered to have a käraha-
function), mstrument, karana (third or instrimental (ase), the 'dative' or
sampradana of the action expressed by the verb (fourth or dative case), the
'ablaftee' or apädana of the action (fifth or ablative mflection), the locatioe
or adlukarana of the ection (seventh or locative inflection)
Thus the sixth or genitive esse-inflection has no häraka-function for it
expresses the relation between nouns, and not between noin and verb So
Prani II in 50 asve saxthi bese-"the genitive is used in other senses"
which the commentators explain to mean sensen other than that of the arx
härahas, and otber than that of the bare muaning of the noun (prätıpädt-
$k$ ärtha, which with gender and number in conveyed by the firat or nominative
anflection),-for instance the relation between s thing and ats owner
(svasvāmibhãoādเsambandha).

The genitive then 18 the inflection proper to mere relation-sam-bandha-, ie to relations not integral to the actoon which is the life of the sentence-gtructure So Dinnaga says in this fragment sasthis fräyetn tadvati 'the gemive wonld be used of one thing possessing another thing'. We must sappose then that the position of those who held that what is inferred is the sambandha or relation between the hill and fire wisg not equiralent to putiong the conclnamo in the form 'fire is on the hill' for that would expreas a kāraka,-adhtkaraña, location.
by properties that we can have inseparable connection of properties ${ }^{1}$.

Therefore these two (dharma and dharmin, P and S ) can constitute the probandum of the inference only when endowed with the condition of being qualified-andqualification with respect to each other'.

## SECTION 4 UDDIOTAKARA'S CRITIQTE OF THBORIER OF THE ANUMEYA

[Translation of the discussion in Nyāyatārtlka ${ }^{2}$ (pp. 52-54)]
'Others give a different account' of the illustration which the Bhäsya gives of $p \overline{\text { ürratat }}$ inference, viz., that 'by means of that same smoke a man apprehends fire' ${ }^{\text {© What precisely }}$ is it that a man apprehends

[^227][^228]through that smoke? Is it (a) fire, or (b) place, or (c) existence, or (d) fire-possessing place? Not fire : because a relation of property and property-possessor ${ }^{1}$ is not possible between them,-that is to say, fire is not a property of smoke, nor 18 smoke a property of fire . and further because fire is already apprehended, and therefore cannot be the thing to be proved (anumeya) And the
inference is just this, that he rcfuses to admit that the smoke through which we now mfer-whatever exactly it is that we infer-is the rdentical smoke of pest experiences In order to elucidate this point he proceeds to rase the further question 'what exactly in it that we infer?' And the answer to this question which he finsily gives seems to preciude the possibilhty of holding that the fire which we are said to anfer is just exactly the fire of previous exporiences So that the position is that neither the fire inferred nor the smoke through which we mfer it can be just that smoke and just that fire which we have previously experienced What we infer is thes smoke-as-qualified-by-fire and the means by which we infer it is again this smoke with all its concrete characteristics

This means that Uddyotakara defintely rejects the new of inference as based on a vyapts of smoke by fire The formulation of a 'major premine' (where there 18 amoke there 18 fire) 18 only of use to those who admit that the smoke and fire of previons experience sre the identical smoke and fire of this particular case But Uddyotakara's view is that we argue from likeness (sadharmya), and not from identity -That 18, the yathä in yathdipeirvam does not argnify dentity, but likeness

This explains (1) the sttack on avinabhäva embodied in the present passage, (2) the acceptance of inference from cause to effect which if bssed on a pyapt or connection or sbstract characters would be gavyabhecära, 1 e. would involve an undistributed middle term If we are argung from the cause in the concrete (not from mare clouds to impending rain, but from just these particularly-charscterised clouds to rina) we can ss well argue from cause to effect as we can from effect to cause

The whole thing may be otherwise expressed by saying that he subatntutes parämarsa for oyäptı as the nerve-the karapla or instrument-of inference The parämarfa is the reslisation that this particular case of $M$, under the concrete carcumstances, must carry $P$ with it He will have nothing to do with assertions, in the abstract, of $M$ being always $P$.
${ }^{1}$ dharmadharmibhāānupapatteh The principle here appesied to 18 stated by Viccaspatı Misira NVT p. 120 1. 20 -dharmega hi dharmi pratipattavyo nänyathes It is alwbys a property-possessor BP that is apprehanded throngh a property M , 1 e it is not P that 18 apprehended through M . Simularly Dnuage condemns the view thst dharmăntaran meyam,--that snother property 18 what 18 inferred through $M$. and Kumanila insiste that an okadefin 18 imphed in Ssbars's statement thst from seemg one ekadefa (M) we apprehend another ekadefa ( P ), and in verse 35 states Väcaspsti's princuple in simils words-saroathà dharmino dharmo dharmena to avagamyate. Socrates 18 mortal and Socrates is humen - but mortal is not human, neither is human mortal. It is of this or that possessor of humanity that mortahty is to be inferred.
same reasoning covers 'existence', and 'place',-the existence of fire, and place, are already apprehended.
" If again you say that place-as-possessing-fire is the probandum,- No ' because the smoke is not the property of this ${ }^{1}$.-You mean that fire-possessing place might be inferred through the smoke. But this is not the case. Why? 'ataddharmatvāt'. That is, the smoke is not a property of fire-possessing place ${ }^{2}$ (as such). Nor can it be said that relation of fire to place [as such] is unknown" (and therefore fit to be proved. It is already known that fire is related to 'place', i.e. has a local habitation).
(The opponent now answers. ''Yes, but what is meant is that) 'This fire-possessing place is the probandum"'3.

[^229]" This will not do, because this bas not been seen. That is, you mean that the particular place is inferred as possessing fire. But the reasoner does not see this particular place - so that he cannot state 'this particular place is fiery': they would be meaningless words, and no more ${ }^{1}$ ', (The translator explains ' 'the actual place from where the smoke is issuing is not seen by the observer'. And this is at least a possible explanation. The remander of the translator's note is, I think, mistaken ${ }^{2}$. IUddyotakara's criticısm is meticulous The observer can particularise the place sufficiently without seeing exactly the spot from which the smoke is issuing. He does particularise it in calling it the hill: and he certainly sees the hill )
of fire as such That will expose hum to the criticism just atated, if he takes the conclusion in this unspecified sense
${ }^{1}$ The punctustion of the text 18 wrong The passage should read kevalam tu sinnyam abhidhänam uccārayats ayam dé̉o 'gnmañ rta (NV p. 52 last line)
${ }^{2}$ If it is a matake, however, the mistake is Vacaspati's, for the translator is following ham in the second part of the note to p 178 of the translatıon See NVT, p 120 (last two lines) -na hy ayam eoamoadt Dinnägo dhamädhdram dedavsiequm paśyats na hy asya mate parvato näma kafcrd
 atindrıyäh sarvatah coam ditumo 'p; tādfía eva yathd vakgyats-'sarea grahanam avauavyanddice' stit (NS II 1 34) "For he, is Dinnaga who is expressing this view, docs not see the particular place which is the locus of the srooke For on his niew wholes do not exist, and therefore there is no such thing as the monntain, - whole which might merve as the locus of the smoke but the 'mountain' is exceedingly minate imperceptrble stoms. and the smoke too will be just the same As the siitrakdra pute it later (speaking from the Bauddha standpoint) 'there will be non-apprehension of everything, because wholes are not eatablished as existing'." I doubt whether Uddyotakars meant this -In any case it would only serve as sn argumentum ad hominem sgainst the Bauddhe, and will not affect the position of those who believe in the reslity of mountans and hold the present view Vacaspati is conscious of this, and he therefore goes on to give the interpretation of Uddyotakars's argument which I have embodiad in mv rendering "yeģam apt defabhedo 'vayaol dartandrhah teşam apt
 nänumanazambhavah - 'TFor those too who admit diferences of place in the form of wholes which admit of being seen, an inference could not srise when they ssw a streak of amoke in mid-sir reaching up to the clouds without seeing any particniar place (which might sarve as locus of origin of the smoke)" -Uddyotaksra's real objection is probably as given in the following footnote,-however we interpret the present parsgrsph.
"Nor can you say that it is smoke as such that brings about the apprehension of fire: or (if you do say this) then 'smoke as such' is what the observer sees; and the consequence of this will be that it is not the particular place that is inferred (as fiery) ${ }^{1}$."

## SECTION 5 HIS REJECTION OF THE NOTION OF UNIVERSAL CONNECTION

In connection with the suggestion just madethat fire is inferred from smoke as such,-Uddyotakara proceeds to an examination of the notion of avinäbhava, or inseparable connection, between smoke as such and fire as such ${ }^{2}$. The passage is particularly significant because it appears to define Uddyotakara's attitude towards

[^230]the doctrine which is usually regarded as the outstanding contribution of Prasastapāda and Diñnäga to the theory of inference.
NV p. 531.2 " It may be suggested that smoke causes us to apprehend fire through inseparable connection (avinäbhāvena). That is: there is an 'mseparable connection' between smoke and fire; and as a result of this a man comes to apprehend fire from seeing smoke.-This view is wrong, because every interpretation of it that can be given turns out to be impossible (vikalpänupapatteh). For what is meant by an mseparable connection between fire and smoke? Does it mean causal connection? or inherence [of both] in one thing, or of one thing [in them both]? or simple relation of the one thing to the other thing (tatsambandhamätra)? (1) Suppose the first alternative, that indissoluble connection of smoke and fire means relation of cause and effect. It is impossible, because this does not reside in that (atadvittitvāt): smoke does not reside in fire, nor fire in smoke; because each of these resides in its own (material) cause. For this reason the 'indissoluble connection' cannot consist in a relation of cause and effect between them ${ }^{1}$. (2) Nor is the second

[^231]alternative possible : (a) smoke and fire are not constituent causes of some one thing which resides in them as. constituted effect : for a substance is not constituted by, two heterogeneous things: (b) and the supposition of their both residing in a third thing which is their constituent cause, has already been set aside by saying that 'each of these resides in its own (material) cause'. (3) If it be said-the thrd alternative-that [at any rate] there is relation (sambandhamätra-relation without further. specification) of smoke and fire, in that way too the inference is impossible. That is: How of the defendant contents himself with the assertion 'there is a relation ${ }^{1}$ between smoke and fire'? The answer is that this view is not tenable,-we cannot infer relation ${ }^{2}$ between smoke
that only materisl causstion is considered because the other two kunds of causation will not be cases of 'inseparable connection'. Thus in the case of efficrent causatton it is not the case that wherever the effect ${ }^{18}$ found the efficient canse is found (na kdryasattā numıttakāranasattayä vyapta na hu yadd yatra vä pafas, tadj tatra od kuvindal.-"it is not true that wherever and whenever there is cloth, there and then there is a weavar" And in the third kind of causation, that of asamaväyikdranata (the relation through which the properties of the threads are the cause of the properties of the cloth, for example), it is equally untrue that wherever the effect 18 found its asamaväyikārana must be found (na hs yadā yadā samyogas, tadà karma,-' 'it is not the case that whenever there 18 contsct the effect of the contact is produced". Jha takes this in the particular sense "the eloth 18 present also when the contact with the loom 18 not present' ${ }^{\prime}$ )
${ }^{1}$ It is important not to musunderstand the two phrases tad apy anumatum ne sakyate and ne sambandhānumänam It is not concervable that Uddyotaksra should have spoken of an 'inference' of inioersal connection between fire and smoke. So far as I am sware there is nowhere in Indian logic the notion that 'induction' or generalisation is an inferential process.
${ }^{2}$ Vacaspati globses sambandhamatra by samyoga that 18 , he understood the present niew to sasert thst smoke and fire are two substances in contact. V(rcaspati states the 'form' (prayoga) of the inference in the shape 'there is relation of smoke and fire, ss a result of smoke' (asts sambandho 'gnedhümayor dhikmad sti), ie from smoke we infer contact-with-fire Now this imphes a 'major premise.' 'Wherever there is amoko there is contact-with-fire'.-Uddyotakara's point 18 thst we have had no such experience as would justify this vydpti of smoke by agnisaminoga, 'contact-toith-fire'. For we often have experience of anagnika-dhama which then mesns smoke not in contact with fire
and fire, because no-such relation has been apprehended :' that is, because we see smoke also in the absence of fire ${ }^{1}$.
(A Bauddha however, as Vācaspati points out, does not believe in substance : and therefore he would not think of the relation between fire and smoke as a case of samyoga between substances ${ }^{2}$, but-like all other connections, e.g. that of colour and tangibility-as a case of ekasämagryadhīnatayä niyatasāhacaryam, 'determined concomitance through dependence on one and the same aggregate of conditions'. Uddyotakara therefore proceeds to ask whether the Bauddha's 'concomitance' will provide for avinäbhāva or universal connection).

The opponent now suggests that "the relation between fire and smoke will be 'concomitance'. hike the concomitance between the two qualities of colour and tangibility in what are supposed to be substances". Uddyotakara reples.-"This will not serve your purpose . because the two are not always found together (and so mere concomitance does not amount to universal connection, avinäbhäva). Smoke is sometımes seen without fire, and fire without smoke, and so (the experience of) their connection is not invariable, and therefore 'concomitance'-as implying universal connection-cannot be asserted ${ }^{3}$."

[^232]'The formula 'where there is smoke there is fire' is rejected by the very same reasoning ${ }^{1}$. And there is no other way of interpreting the 'inseparable connection' of smoke and fire (except those mentioned).-Therefore it is not true that 'fire is inferred through smoke.' "

## SECTION 6. HIS OWN VIEW OF THE ANUMEYA

''Does it not contradict common experience to say that we do not infer fire through smoke? -There is no such contradiction (rephes Uddyotakara) : what we infer is that the smoke has fire as its property; and wo infer this through the nature of the smoke (dhümarisesenägnvivisesañasya dhümasya pratipādyatvāt) -But (it may be asked) how is fire a 'property' of smoke?-The answer is. when it presents itself as a quality (yadā gunabhūto bhavati). The probandum is 'smoke-as-fiery' and it is proved or inferred through the specific nature of the smoke (dhūmarızesesenāsādhārancnānumīyate). For both are at that time present to sense-the smoke, and the characteristics of it such ns its forming an unbroken mass moving upwards And these characters of the smoke, as observed in $1 t,{ }^{2}$ bring about the inference of a char-

[^233]acter not known (directly) to the observer. In the case of every object that is a probandum (saroasyänumeyasyo vastunah), the subject of the characters and the character that brings about the conclusion (dharmī pratipādakas ca dharmah) are known. For instance (in the inference 'sound is transitory, because a product') sound is known as what it is, and the fact that it is a product is known (sabdasyātmasattā prasiddhā krtakatvam ca) : but the character consisting in being transitory is not known (dharmas to anityatvalakṣano 'prasiddha iti). And it 18 this (latter character) that is inferred as a qualification of that (i.e. of sound). (Tadvisesano 'yam anumīyata iti.) ${ }^{1}$

Misunderstanding of Uddyotakara's view is easy. It is sald that Uddyotakura taught that from smoke we infer not fire, nor place, nor fiery place,-but fiery smoke. But Cddyotakara taught no such ineptitude as this, as a

[^234]general answer to the question, 'What is the anumeya?' He is dealing here with a partıcular case-as Väcaspati Miśra points out : the case of two things (smoke and fire) happening to co-exist in a third thing (the hill), to which their relation is accidental. And in such a case it can happen that the thard thing (the hill), which is so to speak the accidental dharmin of these dharma's, may not be present to sense: and then it becomes plan that the accidental dharmin is no essential part of the anumeya: so that Dinnnäga's statement that 'fiery place' is the probandum is seen planly in this crucial instance to misrepresent the essential nature of a probandum The essential dharmin of the inference is just "this partrcular smoke"-the individual case in which both characters find essential connection. Uddyotakara is not trying to banish the S or Subject of an inference: on the contrary he explicitly says that there can be no inference without a dharmin-Sarvasyānumeyasya vastuno dharmi pratipādakaśs ca dharmo prasiddho bhavati (NV p. 54 1. 1) He insists not less, but more, than Kumãrila, that the inference involves an ekadesin as well as two ekadesa's. But he insists further, as against Dinnäga, that the real ekadesin or minor term of an inference is not something accidental to the ekadesa's In the case of an inference such as 'sound is transitory, because a product' Uddyotakara would not say that the anumeya is 'transitory product' : he would say, what Dinnäga or Kumārila would say, that the probandum is the transitoriness of sound. In this inference sound is the essental dharmin: it is in the àtmasatta of sound-in sound as being soundthat the two characters inhere,-and by so inhering are essentially connected. If the characters are abstracted from their dharmin they fall apart. For their connection is in the concrete, and not in the abstract. Therefore to state the vyäpti as Dinnnāga and Praśastapāda state it, i.e. as an arinäbhāva or inseparable connection of the
dharma's or ekadesa's ( M and P ) in the abstract amounts to a false abstraction. The true nature of inference car only be represented when it is formulated as depending, not on a major premise stating an avinäbhäva, but on a parāmarśa or realisation of characters as connected in the indıvidual.

SECTION 7 kUMARILA ON the form of the conclusion
(Slokavārtika, Anumāna partccheda, verses 34-48)
Having established his own view that the probandum 1 ls constituted by the Subject and the Property after they have come into the relation of qualfication and thing qualified with respect to each other, Kumärila, in the first part (verses 34-48) of the present passage, raises a further question-which of these is the thing qualified and which the qualfication? That is: do we infer the hill as qualified by the fire? or may we infer fire as qualified by residence in the hill ${ }^{1}$ ? In other words, must my conclusion take the form 'the hill is fiery'? or may it also take the form 'fire has the qualification or predicate of residence in this hill?'

[^235]
## (a) Verses 34-48.

. . . añgäñgibhävas tu kaiscid işṭo vikalpatah sarvathä dharmiṇo dharmo dharmeṇa to avagamyate. 34 b .
"Some however think that the relation of qualifier and qualified is optional : although in every case it is a quality of a subject that is apprehended through a quality (of that subject). viseṣanaviseşyatve na vuśeşo 'vadhäryate.
35 b.
"The distinction between being the qualification and being the thing qualified is not a fixed distinction''.
Comment. añgängibhāva must here mean vuśeşaña and vuśeşya. Dr Jhā accordingly translates the first line: "The relative predominance of these two is by some people held to be optional'. It does not matter whether you make 'this hill' the subject or visesya, qualified by 'fire' as predicatenotion or visesana. or whether you make 'fire' the sub-ject-notion, qualified by (residence in) 'this hill' as pre-dicate-notion.-But, whichever form of statement you adopt, it will remain the fact that the hill 18 the dharmin of which one character or dharma (fire) is inferred through another character or dharma (smoke). Dharmin and dharma are fixed notions, though visesya and visesana are not.

## 36-38a.

tatrottaram vadanty anye "yadi dharmī visesanam hetudharme na sambandhas tasyāprādhānyatah sphutah. pradhānatväd dhi dharmena sambandho väkyato bhavet, tatrāsambhavatah paścat kalpyo 'sau dharmiñā saha, dhvaner aty atha vā vācyam. anvayasya tu, darsane bhedopättasya dharmasya gunabhāvo na duşati''.
36. a. "Others reply: ${ }^{1}$ if the propertypossessor or dharmin is taken as the
$36 \mathrm{~b} . \quad$ predicate notion or visessana, then, because the dharmin is no longer the leading conception, the connection would not be plain in the case of the probans-property, ${ }^{2}$ because the dharmin is not the leading conception or subject in the 'Proposition'.
37 a
For, as a result of the structure of the syllogism, the connection (of the middle) would be with the 'dharma', as that becomes the leading conception (in the 'Proposition')

37 b.
And, since connection with the dharma is not possible, the relation of the middle will have to be conceived
38 a. subsequently as together with the 'dharmin': or else the phrase 'of sound' will have to be added to the statement of the mid-dle.-As to the grasping of the 'major premise' there is no difficulty in the fact that the dharma has formed the adjectival concept in the proposition : for it is separately stated in the major premise."
Comment.
The view under consideration is that, in the argument 'sound is transitory, because a product', the 'proposition' (or, which is the same thing, the conclusion) may take the form 'transitoriness resides in sound'. As Pārthasärathi Miśra

[^236]phrases it, in the Proposition we should have anityatvam sabdagatam (instead of the direct and usual form sabdo 'nityah, 'sound is transitory') - But the second member of the syllogism, the hetu, is krtakatvät, 一'on account of being a product'. The connection of this will naturally be with the concept that is the subject of the first member of the syllogism. If we say 'sound 18 transitory on account of being a product' all 18 clear. 'being a product' is seen to be a predicate of sound. If however we say 'Transitoriness resides in sound, on account of being a product', the structure of the sentence is no longer transparent. we shall have to explain it by saying 'on account of its (i.e. sound's) being a product'. The relation (asau =sambandhah) of the character of 'being a product', since it is impossible (asambhavatah) in 'transitoriness' (tatra=anityatve) ${ }^{1}$ must either be understood (kalpya) by an afterthought (pascät), as being with the thing that possesses transitoriness, i.e. 'sound'; or else the relation to 'sound' must be explicitly stated (väcya), by adding the word 'dhvaneh' ( 1 e sabdasya) to the statement of the reason 'krtakatyät', which will then become sabdasya krtakatvāt-'on account of sound's being a product'.

The concluding line and a half are thus interpreted by Pārthasärathi Miśra: "It may be objected that" (when the proposition-or conclusion-1s stated in the usual form 'sound is transitory') 'the umversal statement 'whatever is a product, is........ would, when the occasion for stating it arises "' (darsanavelāyām 1. e. at the time of stating the third member of the syllogism) 'be understood as a connection with just 'sound', which plays the part of leading concept in this form of the Pro-position,-instead of being understood as a connection of the middle term with the character 'transitorness',-

[^237]which character has been stated in the Proposition as a predicate-concept (gunabhūtenänityatvena ${ }^{1}$-i.e., anityah sabdah is a proposition in which anityatva figures in the adjectival form of antya). The author's answer to this objection is that the difficulty does not arise - because as a matter of fact in the third member of the syllogism -which has the form 'whatever is a product is transi-tory'-the character 'transitoriness' is mentioned again; so that there can be no possiblity of misunderstanding what is unversally connected with the middle term (i. e. no room is left, in the accepted formulation of the syllogism, for the suggestion that the charge of failure of transparency of connection can be brought against the third member of the syllogism, on the usual formulation of the proposition as 'sound is transitory'.-The critic of the formulation 'transitoriness resides in sound', has sand that this formulation prevents the second member from having a transparent meaning The retort is that, on the usual formulation, the third member fails to have a transparent meaning for the syllogism will then run - -

Sound is transitory,
Because.. .... ...is a product,
And whatever is a product is........ ...
If you say that the blank in the second member must 'be filled in as 'sound' you ought to say that the blank in the third member must be similarly filled in-so that your 'universal' takes the absurd form 'whatever is a product is sound'. -The reply is there is no blank to fill in, in the accepted formulation of the third member, which explicity mentions transitoriness as universally connected with the characters of ' being.a product').

[^238]39-48a. Agner desävršişatve na caitat pakṣalakṣanam. visısṭatā 'sya deśena bhaved evamprakärika :-

40 yo 'gnih so 'sti kvacid deśe, yo drṣṭ yatra tatra vā agnih pūrvānubhūto vā desamātrena sangatah.
41. yo 'gnih so 'nena yukto vā, yo drsto 'nena so' tha $v \bar{a}$ yo 'yamं sa deśamātreña yuktaḥ, pürvena vā 'py ayam,
42. etaddesavisisisto vā yo 'yam agnir. itīha tu pūrvayoh siddhasādhyatvain, pareṣu syäd vvruddhatā.
43. vyäptir anena deśena sarvăgnīnā̀m na yujyate, näpı pūrvasya, nāpy eṣa vahniḥ sarvair viśssyate
44. desaih, pūrveña vā 'py asya na deséna visesyutā. etaddesavisissṭo 'yam ity etat kathyate katham?
45. yadā deśānapekṣo 'gnir nāyam ıty acadhäryate, agneh pūrvataram̀ cātra deśa evāvadhāryate,
46. tajjünānakālabuddhaś ca na deśah syād vısesañan. desasya parvatādes tu svarūpe pāvakād rte
47. grrhîte 'gnivisisṭasya punarjñānam na dusyatz. tasmäd dharmavisisț̣asya dharmıṇah syāt prameyatā:
48. sa desasyāgnıyuktasya.

39 a.
"When 'fire' is not ${ }^{1}$ taken as the thing qualified by 'place' (1. e. if we reject-as we do-the view that the proposition, 'this place or hill is fiery', may be taken in the form 'fire resides in this place'), the various possible interpretations of the meaning of the proposition which we now proceed 39 b . to give will not apply. When 'fire' is taken as the subject qualified by

[^239]'place', the Proposition would admit of the following interpretations ${ }^{8}$ :-

40 a.
(i) Fire in general is somewhere or other (i e. connected with space in general).
(il) The fire that is seen is wherever it has been seen.

40 b.
(ii1) Previously experienced fire is connected with place, as such."

Comment.
Kumãrila says of the first two alternatives that they both pretend to prove what is already known.-Pärthasārathı exphcitly calls the alternative next mentioned the fourth, and he calls the alternative mentioned last of all the eighth. In his introductory comment to the passage he says that the first and second prove the already known, while the last five are contradictory . and his comment makes the fourth the first of the five contradictory ones. There is thus a very pretty confusion as to the number of the alternatives, -a confusion further confounded by the fact that the text (as we have it) speaks of six alternatives in the first sentence of Pärthasārathi's comment. Dr. Jhă renders the first two verses so as to give two alternatives-" (1) The

[^240]fire that has been seen in some place or other exists; (ii) the pre-experienced fire exists in space." His third 18 the one which I number, and which Pärthasärathi calls, the fourth.-The appeal must lie to Kumărila's actual words :-
yo 'gniḥ so 'sti kvacid deśe yo drṣto yatra tatra rā
agnih pūroānubhūto vā deśamātreña sañgatah
It seems to me that the double use of yah and of $r \bar{a}$ indicates three alternatives, and that the yo 'gnih here clearly means fire in general-as it does admittedly in the fourth (Dr. Jhā's third) alternatise

There are nine possible alternatives, and it must be presumed that Kumārila had them all in mind - -
a. fire as such,
b this fire,

- that fire, may be qualifled by -
a. place as such,
b. this pleoe,
c. that pleoe.

Two of these are objectionable under the rubric of siddhasädhyatioa, as Kumãrlla says: namely, his first two :- "Fire as such resides in place as such"; and "that fire resided in that place" ( $a+a$ and $c+c$ ). But there is also a third one which might seem to come under this objection, viz., that this fire resides in this place, $\mathrm{b}+b$. This however Kumärila mentions last of all, as being the natural interpretation of the fourth figure conclusion: and he therefore treats of it in a special argument. It is the eighth of his list. But he probably meant to include it, together with his no. (11), in the phrase yo drş̣to yatra tatra,- "an experienced fire resides wherever it is ex-
perienced'; which means both that "that fire resides in that place", and that "this fire resides in this place". He uses a phrase which means both because he does not want to specify here the latter interpretation, which is to be treated later.

But in any case there are only five others mentioned -all objectionable as being contradictory, viz., Nos. (iii) to (vin) in his list. And Kumārila seems only to specify four of these as contradictory, viz , (iv) to (v11), forgetting (ii) although he has mentioned it One possiblity he does not even mention, viz, "fire as such resides in that place', $a+c$ : thus making the total erght instead of nine. How are we to explain these two apparent defects in his treatment?-I cannot offer any explanation why he does not specify as contradıctory bis no (iii), "that (past) fire resides in all places', $\mathrm{c}+a$.-The apparent omussion of the alternative "fire as such resides in that place'' may be explamed by supposung the phrase yo "gnih so 'nena yukto $\bar{a}$ to cover both interpretations-"fire resides in that place ", $a+c$, as well as "fire resides in this place," $a+b$; both interpretations being rejected as self-contradıctory in the single phrase vyäptir anena desena saroăgnīnām na yujyate. We shall then have all the nune possible interpretations mentioned.

41 a. (iv) 'Fire is connected with this place.
(v) Fire that has been previously experienced is connected with this place.
41 b.
(vi) This fire is connected with place as such.
(vii) This fire 18 conected with a former (i.e. previously experienced) place.

42 в.
(viii) This fire is qualified by this place.
42 b.
The first pair of interpretations take as that which is to be proved something already known, while the later ones involve contradiction'".

Comment Kumārila says nothing further about the alternatives which involve siddhasädhyatva 'setting out to prove what is already known' : he now shows how contradiction is involved ifs the latter alternatives.

43 a.
43 b
"There cannot be connection of all fires with this place, nor yet of the prevsously experienced fire, nor can this fire be qualified by all places;

44 a.

Comment
nor again can this fire be qualified by a prevously expericnced place''.

This rejects alternatives (iv), (v), (vi) and (vii) No mention is made of alternative (iii).

44 b . "As for the alternative that 'this fire is qualfied by this place' how can this be asserted?

45 a.
For fire without reference to place is not called 'this'.

45 b.
And here it is the place that is cognised before the fire 'and
46 a.
the notion of the 'place' comes into consciousness at the time of the thought of 'this fire', and so cannot be predicated of this.'

Comment.
This disposes of alternative (vin).
The text in this line reads $t a j$ jñänakälabuddhas ca na desah syād vaseşanam. Pārthasärathi glosses thus 'tad asau vahnth-jnānakāle 'vabuddhatoän na viseṣanam. The point made is that if 'this fire' = fire on this hill, then it will be mere tautology to assert 'the fire on this hill is qualfied by residence on this hill' : and this is a just criticism

46 b.
47 a.

47 b.

48 a.

## Comment

"But since the place-the hill or whatever it may be-has been apprehended without the fire there is no difficulty about having a second apprehension of it as qualified by the fire

Therefore the probandum is the property-possessor as subject with the property preducated of it -
that is to say, in the argument under consideration the probandum is the place-as-qualfied-by-the-fire'.

The conclusion is that we must not take 'fire' (the dharma) as the ersesya or subject of the Proposition or Conclusion, and 'hill ' (the dharmin) as the visespana or predrcate: in other words, we must not conclude-in the form Bramantip-that fire 1 s qualfied by residence in this hill. And the principal argument for this conclusion is the difficulty which is asserted to exist in finding a reasonable meaning in 'some fiery thing 18 this hill'-or rather for the Indaan equivalent of this solecistic utterance, viz., 'fire is qualified by residence in this hill'. No such difficulty is to be found in the normal conclusion 'this hill is fiery'.-But perhaps after all there are arguments in which the conclusion in Braman-
tip is natural. The argument which concludes to fire on the hill is certanly not one of these naturally fourtly figure arguments, the reason being that we are not here starting from the question "In what places is fire to be found?'. But suppose a man looking for places in which, say, gold is likely to be found : suppose him to know that places having the characters XYZ have produced gold : and suppose him to perceive these characters in a spot S . Startmg from the question "In what places shall I find gold?'" his subject or visesya, i. e. his natural' minor term, will be 'places likely to bear gold' : and this relatively indeterminate notion will become determinatein the inference through a visesana or predicate, i. e. natural major term, consisting in 'the spot S.' Therefore the natural expression of his movement of thought will be - -

Gold will be found in this place,
For this place has the characters XYZ,
And places having the characters XYZ have to my knowledge borne gold.
$S$ is $P$,-for $P$ is $X Y Z$, and XYZ is $S=$ BRAMANTIP. Or, in the Indian formula suvarnam taddesartsisṭam, ìdrśalaksanarattvät (tasya deśasya), purvānubhū-ta-desarat-yatra yatra idresalaksanavattvam tatra tatra suvarnaii drstam. Exception has been taken to the bracketed insertion tasya desasya (see verse 36 b .), and this is, perhaps, awkward in the Indian formulation. No such difficulty however is felt in the Aristotelian ${ }^{*}$ formulation; and it is not a serious objection

[^241]Kumārila does not reject the fourth figure form of conclusion (dharmivisisto dharmah) on grounds on which
sud subject of the minor Bat his fundamentum divistone is the wodth of the middle term in comparison with the extremes, and here there are only three possibilities it may be wider than one and narrower than the other, wider than either, or narrower than either" -These possibilities, however, only schemstise into 'figures' on the assumption that the predicste is slwsys wider then the subject,-on asxumption (inaccurste in itaelf) which at once introduces the differences in ponition of the 'middle' Besides, there are four posabilities, even if wath is taken as the fundamentum dieinionis, viz. -

(1) $M$ wider than $S$ but narrower than $P$.

(ii) M wader than ether

Fig. III

(ii) M norrower than enther, and
(iv) M narrower than S but wider than $\mathrm{P}_{0}$



The last will be the rubric of the argument "thas plaeg has the characters XYZ, and places having the characters XYZ are gobd-beuring placen, therefore one gold-bearing place in this place" $m \mathrm{P}$ is $\mathrm{M}_{\mathrm{r}} \mathrm{M}$ is E , therefore 8 is P

The fourth figure is not the first figure read backwards There in a real difference symbolised by the exchange of 8 and $P$ in the diagrams for Pigs I and IV This difference may be expressed by saying that while Fig I de'ermines the attributes of a subject, Fig IV determmes the sub ject of an attribate In the Fig. I the aubject (dharmin) is the loginal subject But in Fig IV the quality (dharma) is the logical subject, S, ir ridesya

Of course these carcles misrepresent thought-processes and the Indian phrsseology of dharmavistito dharms and dhamavifuto dharmah is mone anggestive of the real problem of syllogistic figure, which has little or nothing to do with the extenaion of the terms or the position of the middle The important question is whether it is ponsible to predicate the dharmm of the iharma.
it might reasonably be rejected ${ }^{1}$. It is not clear that no reasonable interpretation can be found for the statement that 'fire is qualified by (ressdence) in this place'.

## gECTION 8. KUMARILA'S REFERENCE TO UDDYOTAKARA'S VIEW OF THE ANUMEYA

(Slokavärtika, anumānapariccheda, verses, 48-50)
48a-51a . . . Dhūmasyānyanśs ca kalpitā
Nanu sabdavad eva syäl lingagamyam viseṣanam
Naivā̀in, na hy atra liñgasya saktyanekatvakalpanā,
Na ca tasyānumeyatvam, visessyas cāvadhāritaḥ,
Visiş̣tatvena cā̧ñānāt tanmātrasyānumeyatā.
Nanu dhūmaviseṣyatve hetoḥ pakṣavkadesatā.
Naitad astı, méeṣe hı sādhye sămā̃nyahetutā.
${ }^{1}$ If at 28 possible to predicate the dharmin of the dharma, then a 'fourth figure' conclusion would seem to be possible Perhaps the general question of its posability ar justification cannot profitably be discussed without a prior exsmination of the concept of the metaphysical dharmin, and of its relation to the logneal subject or videqya, -an examinstion which I have not met with, or have failed to recognise as such, in Indian logical works

But this much perhaps may be said, that Kumãrila's rejection of the 'fourth figure' conclusion 18 not well-grounded For the natural interpretation of a conclusion which predicates dharman of dharma would be Kumainila's No iv (see p 290 supra) "fire as such is qualified by this place" ( $a+b$, in the scheme on $p 994$ supra) Kumerile summanily rejects this as self-contradictory but only becanse he begs the question by understanding "fire as auch" to mesn "all particular cases of fire." But to partucularns fire in this way is alresdy to asaign to it its dharman or adhikarana and this has not yet been done (if those who support the 'fourth figure' are right) natil the predicate, the dharmin, has been added to the as yet unparticniarised logral subject, the dharma, in such propositions. Before its adhikarang is asaignod it is neather thas nor that nor all particular fires, but fire in general, without a local habitation There is then no self-contradiction.
> "And others think that smoke is the probandum"

Comment.
Pārthasārathi Mıśra says : Naiyā-
yıkās tu dhūmam eva dharmīkrtya tasyaivāgnıvısisțasyä a 'numeyatām ähuḥ. "The Navyāyikas make 'smoke' itself into the property-possessor or subject, and say that it is smoke-as-qualified-by-fire that is the thing to be proved'. This is the position which Uddyotakara maintains in the pessage translated above.

48 b.
"The oljection that the middle term proves the quality ( P, fire) in just the sense in wheh a word, in addition to its function of denoting an individual, has the function of connoting its class-character, is mistaken: for there is no ques$49 \mathrm{a} . \quad$ tion of the middle term's having a double function similar to the 49 b . double function of the word The visesana, P (fire) is not the probandum (and therefore the middle term cannot have the function of indicating this, since its business must be to indicate the probandum) . and the subject or visesya, S (the hill) is already known (and therefore cannot be the probandum,-so that the middle term cannot have the function of indicating ' S ' either).

50 a.
And, as there is non-apprehension only in respect of qualifiedness, it is this alone that is the thing to be proved (and therefore this alone that M indicates-so that there is not any -question of a double function of $M$ ).

50 b.
It might be objected that if the middle term, M (smoke), is taken to be the subject ${ }^{1}$,

[^242]51 a.
the middle will be one of the things of which P is to be proved.But this is not so: for M in its common nature is the probans, while a specific case of M is the probandum"
-The first objection brought against the supposed ${ }^{\text { }}$ Naiyäyika attempt to dispense with S in the sylogism is in the form of an analogy from the double connotativedenotative function of words. If the word 'cow' can denote mdividual cows and connote 'cow-nature', it means that the prameya, or object of sábdabodha (1. e. of the knowledge which comes through understanding the meaning of words) has a sort of doubleness In the same way the prameya of inferential knowledge-the anumeya or prohandum-may be expected to show a certain doubleness - that is to say the linga or middle term (which is to inferential knowledge what the word is toverbal knowledge,-namely, its instrument) may have a double function corresponding to the double connotativedenotative function of the word • it may (so to speak) have S as its probandum in denotation, and P as its probandum in connotation. In other words the M of the inference carries with it reference to an $S$ as well as reference to a P. The Naiyāyika reply is that the probans has a single function-that of proving that $P$ qualifies .... . something. There is nothing to show that this 'something' is a 'subject', $\mathbb{S}$, which can have an independent status apart from M. On the contrary, S is nomore than M in its proper context.

[^243]On this riew the syllogism would run :-
1 The indıvidual SM is P ,
2 because M;
3. as other cases (XM) have been found to be M and $P$,
4. so is this SMP, M and P.
5. Therefore this SM is P .

It will be seen that this cannot be formulated as a normal 'syllogism' . because there is no separable minor term or minor premise ' and because there is no major premise The second member does not state paksadharmatā (' S is M '), because there 18 no need to state it-we aredealing with an $M$ already in the very form of our first member or Proposition - and so there is no (separable) minor term of which M is to be stated. The second member is therefore left with the function of emphasising the pro, bativeness of being $M$ (through an ablative-inflection, translated by 'because') : as Vātsyāyana puts it (NBh p. 41 1. 2) sādhanatāvacanami hetuh -And the third member does not embody (as it does in Prasastapāda's formulation) the major premise 'all M is P ', but is in fact. what it is in name, -an illustration or exmplification of the probans-probandum relation.-The fourth member 'apphes' the illustration, in the form of what C'ddyotakara calls the lingaparämarsa - the realisation that inSM M is connected with $P$. If we insist on putting these arguments into syllogistic form, it will be found that the positive form fails to 'distribute the middle', while the negative form involves an 'illicit process of the major': But to attempt to reduce them to the 'forms of syllogism' is to misunderstand Uddyotakara's teachıng.-Praśastapäda's and Kumärrla's arguments can be treated as if ther were Arıstotelian syllogisms: but not Vātsyāyana's and Uddayotakara's. And this part at any rate of the Nyäyavärtika amounts to a protest against the principles upon which 'syllogistic' is based.

## CHAPTER V

## MEANS OF KNOWLEDGE OTHER THAN PERCEPTION AND INFERENCE

Mesns of knowledge other than perception and mference-(1) Words.(u) Gestures.-(iv) "Analogy",-(iv) Presumption or Implication-(v)
"Inclusion."-(v) Absence or non apprehension -(vis) Tradition.

## Introductory

The various independent sources of valid cognition recognised by the different schools are stated by Varad:t Rāja in the Tārkıkarakṣāa ${ }^{1}$. The Cārväkās recognised perception alone: the Bauddhas and Varéesikas recognise perception and inference: the Sämhhyas recognise Verbal Testimony besides perception and inference, and one school of Nyäya agrees with them in recognising only these three - other schools of Nyäya add Comparison as a fourth source of knowledge - Prabhākara, the Pūrva Mïmämsa teacher, recognises these four together with Presumption or Implication as a fifth: the followers of Kumārila Bhatta, the founder of the other Mīmāmsaka school, add non-existence as a sixth to these: the Pauränikas add Inclusion and Tradition.

That this doctrine of the different sources of knowledge (pramāna) dates far back in the history of Indian logic is clear from the fact that the Nyäya-sütra (II.ii. 1.ff ) devotes a section to refuting the opinion that tradi-

[^244]tion, implication, inclusion and absence are separate means of proof, and that therefore there are more 'proofs' -than the set of four (pramänacatuşfva) which it has itself recognised in the first book. Implication 18 agan referred to in the fifth book of the Sütra, which discusses a sophism of "apparent implication" (arthäpattesama). Unless therefore we are prepared to maintain that the second and fifth books are later additions to the sasstra, we must recognise that the Nyäyasütra presupposes the existence, not only of the Varśeszka, but also of other bodies of philosophical doctrine in which logical topics had been discussed.

Praśastapāda deals briefly with the other six supposed means of knowledge (over and above the two which he himself accepts-perception and inference), adding to the list a seventh, gesture. It will be convenient to translate his remarks under each of these seven heads as a text for further observations. Two points will be found to, emerge in the present chapter. The first is that the Indian notion of pramāna as source or instrument of valid apprehension is somewhat indefinite and covers more than is signified by the English word 'proof', as is clear from the heterogeneous character of the processes which have laid claim to the status of pramäna And - even the Vaisesika school, which rejects the clam in all cases except those of perception and inference, does not achieve a specifically logical conception of pramāna. The second point is that certain of the processes which claim to be separate from anumanna, are in fact distinct from anumäna, i.e. from syllogistic or paradeigmatic inference, but are nevertheless inferential processes: so that, while the Vaisesika is mistaken in attempting to reduce them to the specific sort of inference called by the name of anumäna, his opponents are no less mistaken in failing to realise that they are still kinds of inference although distinct from anumäna.

## (i) Word, or Testimony (Sabda)

PBh p 213 1.12. "Words and the rest are also included in inference, because they have the same princıple (samānavidhitvāt) ${ }^{1}$. As inference comes about in the casc of an object not present to sense, on the part of a person who has apprehended the inseparable connection (between ' $M$ ' and ' $P$ '), through remembrance of this connection and through unquestionable experience of the Mark, so also it arises in the same way from words, etc And authoritative statement also in the form of veda and other scriptures (śrutismertlaksano 'py $\bar{a} m n a \bar{y} a h$ ) depends on the credibility (prämānya) of the author; as is said in Varsesıka-sūtra I 1.3 'tadvacanäd àmnāyaprämānyam' 'scripture is authoritative because it is the word of God' And that scripture is not eternal, but has an Author, can be inferred from reasons which are stated in Vaisesika-sūtra VI.i 1 'buddhıpurvā $\imath a ̄ k$ yākrtir vede' 'sentence-structure in the Veda presupposes an intelligence''; and again m VI.ı. 3 'buddhtpūrro dadātih' "words such as 'gives' presuppose an intelligence".

The argument in the second half of this passage is directed against the Mïmāmsalra view that the Veda has no author, being cternal. The answer is that when in ordmary hfe we find sentences and words we infer that the words and their arrangement in sentences have their origin in some intelligent being who uses the words and sentences. Scripture is composed of just such words and sentences, and therefore must have an anthor And the validity of its statements and injunctions will be inferred from the credibility of that author.

[^245]The first half of the passage deals with the general problem of the nature of the knowledge derived from words. We should distinguish two questions here; but they are not always kept separate in Indian discussions on the subject-(1) what is the process by which we understand the meaning of words? and (2) how do we know that these meanings, when understood, correspond to realities? It is the latter question that is intended to be answered by the Vaisesika when he says that knowledge derived from words is inferential. Sridhara's formulation of the proof that knowledge derived from words is inferential is • sabdo 'numānam vyāptibalenärthapratıpädakatväd, dhūmavat-" word is an instrument of inferential knowledge, because it gives knowledge of things by force of a universal connection - just as smoke [gives knowledge of fire by force of the unversal connection between smoke and fire]"'. In the course of Sridhara's discussion it soon becomes apparent that the relation between word and thing (the relation of denoting and denoted) is something quite different from the relations of conjunction, inberence, etc., on which inferences such as that from smoke to fire are grounded It also becomes clear that the relation as such is not an inseparable one, because different words mean the same thing in different languages, and even in the language of the $\bar{A} r y a s$ the same word in different districts means different things. Besides, statements are not always true. It is therefore impossible to maintain that there is a natural relation (sväbhāvika-sambandha) between word and thing the relation depends on convention (samketa) And further the truth of a statement depends on the speaker, who may

[^246]or may not be reliable (āpta). Thus when we say that the word is an inferential mark which gives knowledge of things through the force of a vyāpti or universal connection, we must be understood to mean (a) that the connection depends on human convention, and (b) that word is an inferential mark from which the thing can be known only when it is spoken by a reliable person But after all even such an inferential mark as smoke (used in inferring that the hill is on fire) is a valid mark only with certan qualifications, e.g. if the smoke is rising upwards in an unbroken connection with the ground, etc The addıng of qualifications to the 'Mark' does not prevent the case from being a case of inference.

With thes view may be compared Imnāga's teachmg in the Pramānasamuccaya, as reported by Vidyābhūsaṇa ${ }^{1}$. 'Diṅnāga asks. 'What is the significance of Credible Word? Joes it mean that the person who spoke the word is credible, or that the fact he averred is credible?' 'If the person', continues he, 'is credible, it is a mere inference'. On the other hand of the fact is credible, it is a mere Perception." ${ }^{\prime 2}$. The nature of the inference, on the former alternative, is made plain in the citation from Dinnăga given by Vãcaspati ${ }^{3}$.
āptavākyāvisamvūdasāmānyād anumānatā,-
" We infer that the reliable person's words agree with reality, from that common property of agreement with reality which belongs to all statements by relable persons." That is, we have learned from experience the general rule that trustworthy persons' statements are true . and we apply this rule to the case of this particular statement The process is therefore inference

[^247]As to the second horn of Dińnāga's dilemma,--in the alternative we may learn by actual experience that the speaker's statement is avisamvädin, i.e. in agreement with reality. And in this case the pramana, or means by which the idea conveyed by the words is justified, is perception.

Uddyotakara rephes that Dinnnāga's criticism is irrelevant, because he has not understood the meaning of Nyāya Sütra I.i. 7 -āptopadeśah śabdah: which, according to Uddyotakara, means sabdollekhena pratipattih, cognition by verbal indication Uddyotakara's attitude apparently is that words $d o$ lead to belief-and if they are the words of a relable person, to right belief. Therefore they are (in the latter case) pramäkarana-the instrument of true cognition and pramäkaraña is pramäna. Dinnāga however looks for another pramāna which will provide a justıfication or proof of the belief produced by the words. This justrfication Diñnāga finds either in inference or perception. His refusal to admit that sabda is a pramaña should be due to his understanding the word pramàna in a different sense from that in which the Naiyäyika understands it. And yet the Bauddha, as well as the Naıyāyika, holds the doctrine of paratah prāmänyam ${ }^{1}$, i.e. that no pramăna carries its own justification with it: its valdatty being establushed from some other source. The Nalyāylka however used this doctrine principally aganst the Mimämsaka tenet that the vahdity of Testimony was self-proved ${ }^{2}$. In view of the fact that the Bauddha held the doctrine of paratah prämänya, it is difficult to understand his refusal to admit that, since sabda does, as a matter of fact, sometimes give rise to beliefs which happen to be true, it is a pramanna.

[^248]For, after all, be does use pramāna in the sense in which the Naiyāyika uses it And, in that sense, sabda is a separate pramãna.

The discussion about $\operatorname{s}^{a} a d a$ is perplexing because we feel that the disputants are so often at cross purposes. And the reason why they are at cross purposes is that the distinction between a psychological cause of knowledge (pramā-karana) and a logical ground of knowledge (pramāna in the sense of proof) was not clearly drawn. Sabda is clearly a psychological cause of knowledge. But, equally clearly it is not a logical ground of knowledge; except for those who, like the Mïmämsakas, were prepared to mantain its 'svatah prāmānya' or logical selfsufficiency. The Nazyäyika was not prepared to do this. But he called sabda a pramăna in the psychological sense. The Bauddha refused to call it a pramana because (quite inconsistently) he was, for the moment, understanding pramäna in the logical sense of self-sufficient ground of belief : a sense really inconsistent with his doctrine of paratah prāmānya.

## (2i) Gesture

PBh p.220. 1.9 " Since we find that cognition is produced by the gesture of a person whose expressive actions are known to us, this too is nothing but inference."

That $18,1 \mathrm{is}$ is not the gesture as such that produces the knowledge, but our knowledge of what the person means by his gestures. The knowledge conveyed by the gesture therefore depends on the connection between the gesture and the speaker's mentention. This is a vyāptı, and the cognition is therefore inference as being vyäptibalena.

Here again we feel that distinctions require to be drawn. (1) Gestures are psychologically a cause of cognition: whether the process by which the cognition is
produced from the gesture $1 s$ or is not an inferential process is a question for the psychologist.
(2) The cognition which is thus produced is frequently a de facto correct cognition. Gesture could in that sense be called pramäkarana, and therefore pramāna.
(3) But if we ask the strictly logical question,whether the gesture brings with it any justification for believing the de facto right cognition to be de jure right,-then we shall perhaps have to reply that this justification would depend on an inference of credibility.

It is not clear whether Praśastapäda is answering the psychological question (1) above, or the logical question (3) above, when he says that gesture, as a supposed pramanna, is really inference. And the reason why it is not clear is because he is thinking of pramāna in the ambiguous sense noted under (2) above,-i e. as pramäkarana: which may menn either a de facto cause of correctness, or a de jure ground of correctness in the cognition.

## (iii) Comparison or Analogy (upamāna)

The classical account of this process is as follows. A townsman is told by a forester that a bison (gavaya, bos gavaeus) is like a cow-'yathā gauh, tathā gavayah'. He goes into a forest, sees a creature resembling a cow, and realises that this is the creature called a 'bison'. The outcome of the process (upamānaphala, upamiti) is the cognition of the name as applying to the thing. The instrument of this cognition (upamāna) according to Vātsyāyana is the knowledge expressed in the formula ' yath $\bar{\pi}$ gauh, tathā gavayah ', 'a bison is like $a$ cow'. but

[^249]according to later opmon it is the perceived resemblance of the creature now present to a cow, assisted by the memory of the information previously received that a bison is like a cow ${ }^{1}$.

But 18 this really what the sūtrakāra means by his definition of upamāna, 一'prasiddhasādharmyāt sädhyasädhanam upamänam ${ }^{\prime 2}$.

The prima facie meaning of thas is "comparison is the establishong of what is to be established from a known resemblance ${ }^{3}$ (or: from resemblance to a thing known)". Now this is a description which would be appropriate to the inferential process known to western logic as Analogy. But the difficulty about interpreting the sütra in this way is obvious. Inference, anumäna, as set out in the account of the five-membered syllogism, is also a process of 'proving the probandum from likeness to a known thing-ie it is described as an analogical process There would thus be no distinction available between anumäna and upamäna.

And there is no corroborative evidence at all for the existence anywhere in Indian $\log _{10}$ of the western notion of analogy, as a specific type of inference distinct from anumāna,-
$x$ is like $y$.
But $y$ has the property $P$.
Therefore x has the property P .

[^250]The passage in the Nyäyasūtra in which upamāna is examined (II.i.44-48), whatever its exact interpretation may be, certainly has no reference to analogy in this western sense of the term. And the only other ancient authority for the meaming of upamana,--namely, the 'Vrttikāara' cited in Sabara's Bhāşya on Mīmā̀̀sā Sū̀tra I.1. $5^{1}$, gives an account still further from our conception of analogical proof. The Vrttikära's definition runs: upamānam apy asamnikrşte 'rthe buddhin utpādayatı, yathā gavayadarsanam̀ gosmaranasya-" comparison also (i.e. like inference) gives rise to a cognition in an object not in contact with sense : for instance, the sight of the bison gives rise to remembrance of the cow '". This 18 explained to mean that upamāna makes us apprehend the similarity of the object which is present (the bison) to an object which is not present (the cow) but is called up by memory.

For Vātsyăyana, upamāna, as instrumen ${ }^{2}$ of cognıtion, meant a knowledge of resemblance, in the form 'a bison is like a cow' The question 1s, as Vātsyāyana puts it, kım punar atropamänena kryate?-" what is it that is effected by this knowledge of resemblance as an instrument' ? In other words what is the upamiti or upamānaphala, the special kind of right cognition ( $p r a m \bar{a}$ ) produced by this special pramāna, i.e. a cognıtion of resemblance?

The only answer that Vātsyāyana could find to this question was that the cognition of resemblance led to apprehension of the relation between designation and thing designated (saìj a rather trivial result for a separate pramăna to produceand that is why the Indian account of upamati, cognition arising from resemblance, strikes a Western reader as a singularly barren notion. But Vātsyăyana's examples show that the knowledge of the name carried a good deal

[^251]more with it. Knowing that the herb called the 'beanleaf' is like a bean, a person finds a herb like a bean, realises that this is the thing to which the name bean-leaf applies, and plucks it for meductnal purposes (bhaişajyāyāharatz). The recognition of the object as possessing certan properties is the important thing-not a mere knowledge of names. So understood, upamiti is a resultant of importance; and the kind of indirect identification of hitherto unseen objects designated as upamäna does play no small part in the growth of knowledge. Thus explained upamāna may be described as a process of 'apperception'

For reasons which have already been partly indicated and which are further explained below in the comment on Nyäya Sūtra II.1.44-48 (upamänapariksṣā) I think Vātsyāyana's interpretation of upamāna gives what was substantially the meaning of the sūtrakära. The wording of the definition of upamāna in I 1.6 is misleading, more especially in view of its close resemblance to the wording of the definition of the 'reason' (hetu, second member of the syllogism) in I. 1.34 : for when we are told that ' 'ıpamana is the establishing of what is to be established from likeness to something known '", and then told that " the reason is the establishing of what is to be established from likeness to the example ", we naturally think that the two processes must be closely allied. But the fact is that sädhyasädhana, 'establishing what is to be established', is a phrase which allows of different interpretations: and its meaning is determined by the context. In speaking of the hetu it can fairly be translated 'proving the probandum'. But in speaking of upamāna it has a different sense-a sense correctly given in Vātsyāyana's paraphrase prajñāpanīyasya prajñāpanam. So that sütra I.i. 6 means that "upamāna is the making known of what has to be made known, from likeness to a known thing ".

Praśastapāda says :-
PBh p 220116 "Knowledge of likeness as an instrument of ralid cognition is nothing but credible testimony (upamānam äptavacanam eva), because it is the conveying of the (idea of the) bison, through the (idea of the) cow, to a person to whom the bison is unknown ${ }^{1}$, by a person who has seen $a^{2}$ bison '".

Prasastapãda has already reduced Testimony to Inference: so that in reducing upamana to Testimony he is, from his own standpoint, reducing it to Inference. The view which he is criticising is perhaps Vātsyāyana's for it is Vātsyāyana who identifies the instrument of upamiti with the knowledge 'yathā gauh, tath $\bar{a}$ gavayah'; ignoring the perceptron of the gavaya which later commentators make an integral part of the upamäna as the instrument of upamitı And, as against this (clearly inadequate) view, Práastapāda uses an argumentum ad hominem. " You identify upamäna with knowledge in the form 'the bison is like the cow'. But this knowledge can only have been derived from testimony. So that upamāna is, from your own standpoint, äptavacana, and not a separate instrument of cognition '".

This may be effective as agannst Vātsyāyana, but is incomplete as a criticism in face of a more adequate analysis of the intellectual process which Vātsyāyana has in view. That process certainly depends partly on testimony: but it is something more than a belief based on testimony-and it is in virtue of this something more

[^252]that the name upamana is used of 1 . Sridhara accordingly supplements Prasastapāda's brief criticism ${ }^{1}$.

Dinnāga in the Pramänasamuccaya argued that upamāna is not different from either (on one interpretation of 1t) perception, or (on another interpretation of it) testimony ${ }^{2}$,-na pratyaksād vākyād vā vyatrrucyate ${ }^{3}$ " When one apprehends both the cow and the bison by perception, then one gets the knowledge that 'this is like that' from perception. When again one hears that 'the bison is like the cow', then it is merely on hearing this that one understands that some of the qualiities of the cow are present in the bison and some are absent-since otherwise the phrase 'like' (yath $\bar{a}$. . tath $\bar{a}$ ) would not have been used. It is a preponderant sameness of qualities (bhūyas särūpyam) that one apprehends '".

Both Vddyotakara and Vācaspatı reply that Diñnāga's criticism is irrelevant because he has not understood what the sütra means by upamāna-1.e he has not taken Vātsyāyana's view of the sūtra as meaning by upamäna the process of applying a name to a thing through sumilarity to a known thing; but has interpreted it as merely the process of getting to know the simularity of two things ${ }^{1}$. And this seems a farr criticism of Diṅnāga.

[^253]Vācaspati argues that, understood as Vātsyāyana understands it, upamāna must be regarded as a pramäna distinct from perception, etc., on the ground that it produces a kind of right cognition (pramā) distınct from those produced by the other pramäna's-pratyaksād dohyah pramānāntaram upamānam tajjanyapramāvilakṣaņapramäjanakatvāt.

> Note on the examination of the notion of upamāna in Nyäya Sūtra II. 1. 44-48

Sūtras 44-45. A dialectical objection 18 raised. Similarity must either be complete, preponderant, or slight. If complete, there is not rescmblance-no one says 'a cow is luke a cow'. Nor agann is resemblance asserted on the bass of preponderant similarity-no one says 'an ox is like a buffalo'. Nor again on the ground of slight similarity-otherwise everything would be like everything.

This is set aside on the ground that analogy proceeds from a prasiddhasädharmya. There is no question of all, most, or little-there is resemblance : and where there is resemblance analogy cannot be denied.

Sütras 44-47. Pratyakṣcnāpratyakṣasıddheh (46) Näpratyakṣe gavaye pramān̄ārtham upamānasya paśyī ma iti (47).

According to the commentators, sūtra 46 argues that upamäna is really anumāna, inference, because (like inference) it proves by means of something percerved something which is not perceived. Sūtra 47 replies that upamāna does not prove something unperceived,-" we do not see upamana functioning as a pramana in the case of the bison as something unperceived ''. We apprehend by upamanna that a bison present to sense is a bison. Whereas we infer the existence of fire which is not
present to sense. Thereby upamäna is different from anumāna.

The passage seems to show that Vātsyāyana's account of upamāna is that intended by the Sūtrakāra, and stands for the genume tradition of the ancient school of Nyäya.

Sūtra 48. Tathety upasam̀hārād upamānasiddher nāvzśesah
" The process of upamana is established by the use of 'so ' or 'like' (n the 'application' or fourth member of the syllogism). and therefore $1 t$ is not true that it is not different from anumäna."

The present sūtra suggests that the mutive for the recognition of upamäna as an independent source of knowledge was to provide a pramãna corresponding to the fourth 'member' in the way in which 'testimony' corresponds to the first, 'inference ' to the second and 'perception' to the third. Cf NBh. p 44, ll. 11-15, on $N^{\top} S$. I. 139.

## (vv) Presumptoon or Implıcation (arthāpatti)

Accordng to the classical account of this process it consists in finding a supposition which reconciles a primat facte contradiction. The two stock examples are. (1) You have information that Caitra is alive : but you do not find him in his house. Ergo, he is out. (2) You are told of one Devadatta who is fat and does not eat by day. You draw out of this statement the implication that he eats by night. The former 18 given as an illustration of drsț̄̄rthāpatti, implication or presumptıon from experienced facts; the latter as an illustration of srutärthäpatti, implication or presumption from words ${ }^{1}$.

[^254]Arthäpatti was recognized as a separate means of valid cognition (pramāna) by both schools of Pürva Mīmämsā (Bhatttas and Prābhākaras) ${ }^{1}$, and the doctrine is found with its essential features developed as early as the Vrtikāta cited by Sabara ${ }^{2}$. The passage in Sabara's Bhāsya may be quoted as the locus classicus.

## Sabara

" arthäpattir api drṣtah sruto rārtho 'nyathä nopapadyata ity arthakalpanā • yathā, juvato Deradattasya qrhābhāvadarśanena bahirbhāvasyādrṣtasya kalpanā ${ }^{\text {' }}$
Presumption is the supposition of a thing on the ground that a thing, heard or seen, is otherwise not possible - for instance, through finding that Devadatta, though alive, is not at home (there arises) the supposition of his being out-a thing which we do not know by actual experience."

## Nyāya-sūtra and Vātsyāyana

This however was not the only account of 'presumption' current in the early schools; and it was not the original meaning of the term. The notion is discussed in that passage of the Nyäya-sūtra ${ }^{3}$ which argues

[^255]Kauf Arth. S adhikarapa 15, adhydya 1 -p 424 of Myscre edn. 1909.
against the separate status of supposed pramana's other than the four enumerated in NS I.i. 3; and the account there given, as interpreted by Vātsyāyana, is not identical with the account given by Sabara.

Vātsyăyam begıns by defining arthäpatti as abhidhiyamāne 'rthe yo 'nyo 'rthah prasajyate-" another thing which follows as an implication of the thing that is stated ${ }^{2}{ }^{1}$. The example which he gives is ${ }^{\text {• }}$ yathä meghess asatsu vrsticir na bhavatìt kim atra prasajyate? satsu bharatizti-" for instance, what is implied in thestatement that when there are no clouds it does not ran? (The implication is) that it rains where there are clouds ${ }^{2}$ ", 1 e . the object cogmsed through implication is that the production of the effect, rain, is limited to the existence of the cause, clouds-" "kāryotpādah kāranasattām na vyabhrcarati', If not A, not B : ergo, if B, then A. Vātsyāyana further characterises this pro cess as 'apprehending from opposition what is not stated' -anabhıhıtasyärthasya pratyañ̄kabhārā̃d grahañam' (NBh p. $101 \quad 16$ on NS II.ii.2) He says shortly afterwards. " from the statement that in the absence of the cause the effect is not produced, we arrive by implication at what is related to this as its opposite, namely, that the effect is produced in the presence of the cause'. For from a negative comes the opposed affirmative'.

[^256]It will be clear that Vātsyāyana means little more by arthäpatt than what Western formalists call the opposition of propositions and immediate inference. But Vātsyãyana has no doctrine of ' logical opposition' such as that embodied in our ' Square of Opposition '. He notes that some supposed 'implications' are in fact not logically necessary (anaikāntika); but he dees not formulate the precise conditions under which an implication is cogent ${ }^{1}$

Nevertheless the sūtra already defends arthāpatti aganst the charge of being inconclusive (anaikäntika); although it demes that it is an independent source of knowledge, and holds that it comes under the head of inference. Neither the sūtra nor the Bhäsya makes it clear just what form implication would take when expressed as anumäna, inference through a middle term. But the sütra has no doubts as to the identity of arthäpatt? and anumanna: for 1 t argues against the objector's inference (" implication is not a source of vald knowledge because it is inconclusive '"), that, if implication is invalid, then this inference is itself invalid; while, of the inference is valid, then implication is valid: the meaning of the dilemma being that the validity of inference stando or falls with the validity of implication-since in fact there is no distinction between implication and inference Neither the sütra nor the Bhäṣya recognises the distinu tion, first made perhaps by some Mīmämsaka predecessor of Sabara (unless Sabara himself origmated the doctrine), between verbal implication (śrutārthāpatti) and real implication (drstēarthäpatti). Prasastapāda recognises it, but regards it as of little importance.

All implication is within a system, and therefore relational. Vātsyayana takes his example from the

[^257]causal relation, Sabara takes his from spatial relations (if a man is not here, he is elsewhere), while the later Mïmämsaka adds one based on time-if not now, at another time. All three illustrations can easily present themselves as a mere opposition between positive and negative-between this and not-this; for the reason that a system is a whole of mutually exclusive parts, and can always be expressed disjunctively. This aspect of the relational argument is present to Vātsyayyana when he characterises the argument as based on pratyanilabhäva, or opposition: and when he says the positive is the pratyanīka of the negative he lapses into a 'formal ' view of 'implication '. Sabara and his school, partly at least, avoid this tendency to a formal account, because they think of the system of facts as forcing upon the mind a point of view which is not merely the negative of the impossible supposition but a positive conception in itself. Nevertheless they do not succeed in realizing the constructive or 'synthetic' character which is the mark of a genuine arthäpatti-as exemplafied for example in geometrical construction, in which new positive truth arthäd äpadyate-arises by implication in the concrete character of a system ${ }^{1}$.

## Prabastapāda

Praśastapāda does not scem to accept Vātsyāyana s account of arthäpatti; and he draws the distinction, which Vātsyāyana does not draw, between drṣṭārthāpattc and śrutārthapātti. Hıs actual words, however, do not enable

[^258]us to determine what view of arthäpatti he has in mind. But, for reasons suggested below, it is probable that Sridhara interprets him correctly.
PBh p. 223 l.1. "Implication from an object of experience is no more than inference by opposition (virodhy eva sc. anumānam) : implication from what is heard is inference from the inferred."

## Comment. (a) drṣ̦ārthāpattı

Sridhara glosses mrodhy anumānam by: "pramānāntaraviruddha evärtho 'rthāntarāvinābhüta iti virodhy eva lingam "-" a thing which when contradicted by some other means of knowledge is inseparably connected with another thing is a 'Mark by contradiction''. Absence from the house, when contradicted by knowledge that the man is alive, is inseparably connected with, and therefore is the Mark of, being outside the house Sridhara takes the reference to be to some such view of arthäpatti as Sabara's

It is a case of inference, anumāna, because it clearly relies on avinäbhăva, universal connection. 'yasya yath $\bar{a}$ niyamas, tasya tathaiva lingatvam', says Sridhara: " there is a middle term (i.e. the process is inference or anumäna), just so far as there is a rule of necessary connection ". "If absence in the house caused the thought of presence outside simply through the impossibility of the former alternative (anupapattimätrena), it would not be a middle term based on a universal rule (niyamahetu) and therefore the absence from the house might lead to the thought of something else too (arthäntaram api kalpayet-i.e. it would not point to any definite alternative)'". The Mimā̀msaka says that knowledge of absence from the house generates the idea of something else in order to make itself possible (svotpattaye)-and it is not possible on any other hypothesis except that of the man's being outside (anyasmin kalpite na tasyopapattih).

But on what authority (kena) does he affirm that a living man's absence from the house is only possible in case he is outside? On the authonty of the experience that a finite substance if it is in one place is not anywhere else. But then the realisation of the possibility of the man's absence from the house has as its condition a positive connection (anvaya), and so is inferential, since its arising depends on a universal connection. The form of the argument would be: 'Devadatta is out, because being alive he is not seen in the house : like me'1.
-There is no question that the process is 'inferential' in the sense of depending on a universal. The question is whether it can be 'reduced to syllogistic form' : and since the Indıan syllogısm is in essence inference from examples this really amounts to asking whether arthäpatti can be represented (fairly) as inference from examples : and the obvious irrelevance of the example in Sridhara's attempt at reduction to syllogistic form indicates that it cannot be done. Arthäpatti is not inference from examples - Western logic meets with similar difficulties in attempting to reduce relational arguments to terms of our syllogism $\cdot$ we cannot easily construct a premise stating exphicitly the universal from which the conclusion could be supposed to be 'deduced'; and the premises as they stand present a quaternio terminorum: as for instance in such arguments as ' A is to the right of B , and B to the right of C , therefore A is to the right of C'. Indian logic in its doctrine of arthäpatti is facing this same problem, though from a different angle.

[^259]The Indian syllogism from example does not differ in essentials from the Western syllogism. Both are subsumptive. And the fact is that there are important classes of inference which are not subsumptive, and therefore refuse reduction to syllogistic form, or to anumāna. Indian logic gives a few illustrations of such arguments under the rubric of arthäpatti. The treatment of the topic is inadequate : but it is still a valuable suggestion.
(b) Srutārthāpatti

Prasastapāda's meanıng in calling verbal implıcatoon anumitänumanna is merely that verbal testımony is itself (on his showing) inference The facts derived by 'implicstion' from words are arrived at inferentially: therefore the ' implication' got from such facts is ' inference from the inferred '
(v) Sambhava-Inclusion

PBh p. 2251.10
"Inclusion" also is nether more nor
less than inference, because it is a case of something which cannot exist without another thing (avinãbhävitvāt)' .
NK ad. loc.
Srïdhara explains: "A hundred 18 known to exist through the knowledge that a thousand exists, as the result of a separate source of knowledge called 'inclusion', which takes the form 'A hundred is included in a thousand' Some people hold this view, but the author rejects it on the ground that the knowledge of a hundred from a thousand is just inference because it is conditioned by the knowledge that a hundred is inseparably connected with a thousand'".

[^260]Vãtsyăyana ${ }^{1}$ gives a simılar account, and, like Prasastapăda, uses the term avinäbhäva in this connection • but this term was not for him, as it had become for Prasastapāda, a technical name for the oniversal in reasoning. Perhaps it first found its way into the language of logic in some slah usage as is illustrated in this passage of the Nyäyabhisya. "What is called 'inclusion' is the grasping of the existence of another thing as the result of grasping the existence of a thing which is its avinābhāvin, l.e. does not exist without it ${ }^{2}$. For instance we apprehend the existence of an adhaka (a weight which is the quarter of a drona) from apprehending the existence of a drona, and of a prastha (which is the quarter of an aḍhaka) from apprehending the existence of an ādhaka " And again :-
" A quantity and its constituents being united by the relation of inseparable concomitance (avinäbhāvavrttyā sambaddhayoh samudāyasamudāyinoh̆), the apprehension of the constituent by means of the aggregate (samudāyena) is 'inclusion' : and this too (i.e as well as arthāpatti) is just inference."
-As in the case of arthäpattr, there is a fallure to generalise the particular case. The case is that of argument from quantitative relations-the case of arithmetic, if not of mathematical reasoning in general : and the question whether sambhava is a separate pramāpa

[^261]is in fact the important question whether arithmetical reasoning is deductive in the sense of being syllogistic. Indian logic did not grasp the fundamental character of the problem,-neither did Western logic, until Kant pointed it out. Western formalism is in a more awkward predicament than Indian here in view of its quantitative treatment of the syllogism. Both the Western and the Indian formalist would reduce arithmetical reasoning to syllogistic form. But the Western formalist at the same time reduces the syllogism to a kind of arithmetic ${ }^{1}$.

## (vi) Abhāva. Non-existence or negation

It is clear from the discussion in the Nyāya Sūtra ${ }^{2}$ that the investigation of the nature of non-existence (abhäva) arose out of a dialectical difficulty-How can we know that which is not? or, How can we assert that anything is not? It 1s, as we should perhaps say, the problem of how a negative judgment is possible Sabara gives no sign of being aware of any difficulty: but the position which he takes up is one out of which the dialectical difficulties stated and met in the Nyāya Sūtra would inevitably arise. He sımply says ${ }^{3}$ abhāvo 'pi pramānāabhāvo nāstīty asyärthasyäsamnikrsṭasya--'non-existence being an absence of any instrument of knowledge, is also (as' well as anumāna and arthäpatti) the thought ${ }^{4}$ of something not present to sense-viz., of that thing (to which the pramaña would have applied $)^{s}$-in the form 'it is

[^262]-Supplying kalpand from the preceding clanse.
"This seems to be tho force of asya.
not' ''. The dialectical difficulty of asserting that the absence of means of knowledge can lead to knowledgeknowledge that the thing is not-is obvious, and is precisely that raised in the Nyäya Sütra. Kumärila interprets Sabara's statement as meaning that non-existence is the absence of any other instrument of knowledge; and draws the implication that non-existence is itself a distinct (sixth) instrument of knowledge, as being the source of negative judgments.

## Nyāya Sūtra, II ii.7-12

The Nyäya Sütra denies that abhāva is a destinct instrument of cognition, on the ground that it is inferential (II.ii.2) : but later (II.11.7-12) asserts the validity of negative judgment as against dialectical objections. In the latter passage the objector argues that negation is invalid (na prämannyam) because there is no object of cognition (prameya) corresponding-the non-existent not being a 'prameya' .-This objection springs from mere impudence (vaiyätyāt), says Vātsyāyana; for common experience provides numerous instances of 'prameya's' of negation. The following sütra (II.ii.8) gives one such by way of example :-a number of (e.g.) pieces of cloth are marked, and a number are unmarked; someone is told to fetch the unmarked pieces, and is able to do so because the unmarked pieces become objects of cognition just from not being marked -The objector returns to the charge with the rejounder that what simply is not cannot even be negated (asaty arthe nābhāvah)-if there are no marks you cannot say that the cloth is unmarked: to which the answer is given that marks do exist,-in the other pieces of cloth (anyalaksanopapatti).- The objector retorts that the negation does not refer to the

[^263]marks on the marked cloths-that would involve selfcontradiction, since the marks on these cloths are present. It is impossible to say that the absence of marks on the marked cloths is the means of apprehending the unmarked cloths.-The reply is that it is not of course intended to assert the absence of the marks in the very things in which the marks are present. But the absence is apprebended relatively to the things in which the mark is present (lakṣañāvasthitäpekṣāsiddheh).-The final sütra (II.ii.12) adds a further argument for the validity of the negative judgment, namely, that before a thing comes to be it is not ${ }^{1}$. This argument rightly connects negation with becoming : it is impossible to conceive of 'becoming' without the notions of ' not yet' (antecedent non-existence) and 'no longer' (subsequent non-existence) Uddyotakara's summary judgment on the opponent's arguments is that they are mere qubbles (chala), which call not for refutation but for rebuke: for a quibble, when witting, is ugnoratio

[^264][^265]elenchi (arthäntara) ${ }^{1}$; and, when unwitting, only shows the ignorance of the person who employs it. But this is hardly fair for what the opponent has urged is a genuine dialectical difficulty.

## Nyāya Sūtra II.ii.2, and Vātsyāyana

As regards the earher passage (II.11.2) the question arises-On what grounds does the sūtrakära reduce ' nonexistence ' to inference? No answer is to be found in the sütras themselves, and we have to rely on Vātsyãyana's comment ${ }^{2}$. But what he says strikes us as irrelevant; for he does not attempt to answer the question which we expect him to answer-the question how we know that a thing is not. Instead of dealing with this question, he gives an example to show that, given the knowledge that something is not, we can then use this knowledge as a means of apprehending that something else $2 s$. And he has no difficulty in showing that, when abhāva, non-existence, is $\imath n$ this sense a pramăna, i.e. a means of apprehending something, it is samply an inferential process. " Absence or non-existence (as a pramāna) depends on an opposition ${ }^{3}$. That which is not is the means of apprehending that which is (abhütam bhütasya sc. pratipādakam)-non-existent rainfall causes us to apprehend an existent conjunction of wind and cloud, on the ground that where there is a restraining conjunction of wind and cloud the falling of the rainwater as the result of gravity does not take place." And again: " An opposition being established

[^266]in the form ' where this is, that does not happen ', we infer through the non-occurrence of the effect the existence of something which counteracts the cause (käranasya pratibandhakam)".

## Praśastapāda

Prasastapāda's brief statement shows that he takes almost the same view of non-existence, considered as a means of apprehension (abhävapramāna), as Vātsyāyana does; but with this difference, that he identifies it with inference from absence of effect to absence of cause, whereas Vātsyāyana identifies it with inference from absence of effect to presence of a counteracting cause ${ }^{1}$.

As a contribution to the real problem of negation, as conceived by the Mīmämisakas and the later Naiyāyikas and Vaisesilkas,-the problem, How do we know that which is not?-Praśastapēda's teachıng is thus as irrelevant as Vātsyāyana's. He says:-
PBh p. 225 11.14- 'Non-existence also is nether more
15. nor less than an instrument of inference (anumannam eva). Just as the occurrence of an effect is the inferential Mark in the apprehension of the presence of the cause, so the non-occurrence of the effect is the inferential Mark in the apprehension of the absence of the cause.'

## Sridhara

Srīdhara ignores Praśastapāda's account, and proceeds to deal with the real problem in a long and valuable polemical digression ${ }^{2}$. He ponts out that even those

[^267]who assert that abhava is a distinct instrument of cognition have to qualify the assertion by adding that the thing thus cognised as absent must be such a thing as is capable of beng perceived if present; and that the conditions of perceiving it must be present. But this at once introduces an inferential element into the apprehension of non-existence,-the middle term being the fact that the thing is not perceived (anupalabdhi in the Buddhist terminology: but Sridhara uses abhäva as synonymous with anupalabdhi). The ' major premise ' is the universal connection between non-perception of an object capable of being perceived (yogya) and its non-existence ${ }^{1}$.

But what of this ' fact that the thing is not perceived'? For instance when there is no pot on the floor -the floor $1 s$ perceived as present. Why not say that the jar is perceved as absent ${ }^{2}$ ? That is, why not class negative apprehension as a case of perception, instead of calling it inference?
-Well, perception is defined as apprehension arising from contact of sense and object . and there is an obvious difficulty in conceiving of contact of the senses with an absent object. You may reply that whether an object can or cannot be in contact with sense can only be decided by the result: and since we do perceive absence we must conclude that there is somehow contact of sense with the

[^268]absent as absent. But the truth is that every negation or absence bas a definite locus (adhikarana) : and that, whereas the sense is in contact with the locus and functions in the apprehension of the locus, it does not function in the apprehension of the absence : as is shown by those cases where we are subsequently asked 'Was so-andso there?', and we then (1.e. when sense is no longer functroning) apprehend his absence. Nor can this be a case of memory; for we remember what we have previously experienced : but the absence now apprehended was not apprehended before. Nor are the difficulties any less for those ${ }^{2}$ who, admitting that absence cannot be apprehended by perception, urge that the absence of the object is apprehended by the absence of apprehension through any of the five instruments of apprebension (perception, etc.) . which proves (as they hold) that absence (abhäva), or non-apprehension, is a distinct instrument of apprehension (pramānāntara) ${ }^{2}$. For, in the case above instanced of realising subsequently that so-and-so was not present,-is the 'non-apprehension' which (according to this account) establushes his absence, a present non-perception efuablishing a present absence, or a past non-perception establishing a past absence? A present non-perception would not be 'non-perception of a thing capable of being perceived' (yogyänupalabdhi), for the scene of the absence is now remote; besides the apprehension that 'he is not there' may now be wrong, for he may have gone there in the meantıme. A past nonapprehension, on the other hand, which alone is capable of determining past non-existence, has ceased to exist at the present-another state of mind has taken its place: and a non-existent mental process cannot be a cause of

[^269]apprehension ${ }^{1}$. Nor can the past non-apprehension be functioning now as recalled by memory, for the following reasons.-The opponent's doctrine is that the non-perception cannot be brought to consciousness by any other of the instruments of apprehension because it is a mere negation,-and if you suppose another ' non-apprehension' to be the means of apprehending the first ' nonapprehension' you land yourself in a regressus ad infinitum: and therefore non-apprehension must be thought of as determining its object without itself being apprehended, as is the case with the organs of sense ${ }^{2}$. "This being the opponent's view, it is impossible that there should now be memory of the past non-apprehension, seeing that it was not experienced when it was present: and there canr be memory only of what was previously experienced ${ }^{3}$.

[^270]${ }^{2}$ At this point the opponent suggests that the pest 'non-spprehension' may be regarded as still continuing in the mind, on the ground that non-apprehenaion of an object only ceases when the object is apprehended And as for the objection previously rased that a diferent atate of mind has now supervened, there is no ground for supposing that a difference in the state of mmd must imply a difference in the thing spprehended (?) Sridhars replies that this auggention is perhaps possible in the case under consideration, i.e. the case of a person who is saked 'Was X present', and who then reshises that $X$ was absent But how will the opponent desl with (kah pratikdrah, as rightly read by Fiddegon) a case in which the absence is at first not grasped owing to the fact that memory did not bring up the ides of the absent thing (pratiyogin), but is realised subsequently as the result of spprehending the thing somewhere else? For in such s case the previous non-apprehension ceases owing to the present spprehension! The opponent cannot say that there wos non-spprehension before, and that this, though no longer existang, is the cause of the knowledge of absence-unless he is prepared to admit that a man can still see after he has lost his sight l-Perhaps be will asy that present non-spprebension is put an end to by the present:

Sridhars concludes that the process by which we afterwards apprehend that a thing was absent (like the process by which we now apprehend that a thing is absent) is inference. " What would have been remembered when another thing is remembered, and yet is not remembered, although the desire to remember is present, was absent at the time of the original experience. So-and-so is not remembered at such-and-such a place which is remembered, although the desire to remember is present. Therefore so-and-so was absent '". -If it be objected that such an inference is doubtful (anaikäntika) because we sometimes cannot call to mind something which as a matter of fact was present and formed part of the original experience-as when we remember one verse of a couplet but fall to recall the other-, we sball add to our 'major premise' the proviso 'the aggregate of conditions for recall being the same in both cases' (tulyasāmagrikatva). In the case of the two verses of the couplet the conditions are not the same, there having been a keener mental impression (patutarah samiskärah) produced by the verse which is remembered. But where the two things were factors in a single cogntion (ekajñānasamsargi) as in the case under consideration, this proviso is necessarily satisfied : the aggregate of conditions in the apprehension of one was identical with the aggregate of

[^271]conditions in the apprehension of the other: and so theaggregate of conditions for recall will be identical.-The case of recalling verses is different, because the original apprehension of them was not unitary but successive (kramena paṭhyante naikajñānasaṁsargịni.) ${ }^{1}$
-Here, as always, it is necessary to distinguish thetwo senses of pramāna, as mere instrument of cognition (psychological) on the one hand, and as ground of belief (logical) on the other hand. In the latter sense Sridhara may be thought to prove his point; for the setting out of the logical grounds for belief in a negative judgment will take the form of an inference. 'How do I know that it is absent? because if it had been present I should have seen $1 t$, or remembered it'. There will always be, however (though Sridhara will not admit it) a logical possiblity of error in the inference, since it is impossible so to formulate the 'major premise' as to exclude all possibility of exception ${ }^{2}$. Practical or moral certainty (i e. opmion that a wise man will act on) can be achieved; but logical certitude in the concrete is an idol of the theatre.-But, apart from this objection, Sridhara's argument proves too much: for the ground of our belief in perception ${ }^{3}$ (which is admitted to be an independent pramãna) is no less inferential than the ground of our belief in 'non-apprehension' (which is denied to be an independent pramäna). We may support our positive perceptual judgments by arguing 'if it were not there, I should not see it ', no less than we support our negative judgments by arguing ' if it were there, I should see it '.

[^272]Perception is no more, and no less, mdependent of inference than ' non-apprehension ' 18. And in both cases it is equally imposssble to exclude the chance of error: for sometimes we see what is not there, just as sometimes we do not see what is there.

Taking pramanna in the psychological sense of instrument of cognition the position of those who like the later Naiyäyikas assert that we perceive absence would seem to be justified. There is a felt difference in a room from which a picture or ornament has been removed. and this felt difference is psychologıcally something positive, and becomes the instrument of negative judgement ${ }^{1}$.
(vii) Aitihya-Tradıtion ${ }^{2}$

PBh p. 2301.24
"'Tradition also, when true, is nothing but Credible Testımony
When false, the question whether it is a pramana, i.e. an instrument of ralid cognition (pramā) of course does not arise. When true, it is indistinguishable from sabdapramana; and as such is reducible to inference, according to Praśastapäda. Tradition is mentioned among the claimants to the rank of pramäna in Nyäyasütra $I T .11 .1-2$, and its claim is rejected as not being different from ' word '-which the Nyäya Sütra admits as a distinct pramăna. The reason for distingurshing it from sabda appears to have been that tradition has no assignable author; whereas 'word ' is somebody's word-so that the question whether it is the word of a reliable person (äptavacana) can be raised. Thus Vātsyăyana ${ }^{3}$ characterises tradition as having no assigned author because it has been handed down through a succession of pronouncements.

[^273]
## CHAPTER VI

## SOPHISTICAL REFUTATIONS.

(1) Equivocation (chala) -(in) The nophistical or dialectical refutations (jatu). -(iu) The six steps in tu quoque dialectic (gatpakif) -(iv) Defeat in debate (nıgrahasthäna)

The three heads chala, jätı and nıgrahasthäna, among the sixteen 'categories' of the Nyaya, correspond to the Sophistici Elenchr of the Aristotelan Organon. The second chapter of the first book of the sütras distingushes sophistry and cavilling (jalpa and vitandā̄) from discussion (väda $)^{1}$ on the ground that the sophistical argument, though it has the form of the five-membered syllogism proper to 'discussion', uses as its means of proof equivocation (chala), sophesm (jāt ) and futility (nigrahasthäna) : while cavilling is sophistry which makes no attempt to establish the position counter to that of the theory attacked (pratipaksasthäpanāhina). The chapter then gives an account of Equivocation; but contents itself with barely defining Sophism and Futility, the full treatment of these two 'categories' being reserved for the last or fifth book of the sütras, which has these for its sole topic

## BECTION 1 EQUIVOCATION

Equivocation is defined as verbal contradiction through the possibility of taking the words in an alternative sense. It is divided into three kinds, equivocation in respect of words, equivocation arising from a common term, and equivocation about a metaphorical expression.

[^274]
## 1. Väkchala

Equivocation in respect of words is defined in the suitra as the supposition of something different from that intended by the speaker in the case of a thing named by a homonym. Vātsyāyans cites as an example the sentence navakambalo 'yam mänavakah, by which the speaker means " this man has a new blanket " (navah kambalah). But though in the resolution of the compound the meaning is unambiguous, the compound navakambala is itself ambiguous (vigrahe tu viseşo, na samāse), and the opponent unfairly resolves it as nava kambalăh, taking it to mean " this man has nine blankets "': unfairly, because no word, as such, is particular in its meaning; which becomes determinate only through the context (arthaprakaranādisahakārī viśeṣe vartate), Vācaspati explains.

## 2. Sämãnyachala.

This is defined as the supposition of an impossible meaning, resulting from the application, to the thing that is meant by the speaker, of a common or class character which covers more than the thing meant. For example, the statement "this Brahman is learned" is unfairly taken to imply that any Brahman (including ignorant ones) is learned - unfarrly, because it makes the unwarranted assumption that Brahmanhood was mentioned as causally connected with the possession of learning; whereas in fact the speaker used the term 'Brahman' simply in explanation of the thing referred to (visayänu$v a \overline{d a}$ ) without any intention to speak of the cause (avivaksitahetukasya).

The trick here consists in taking a reference to attendant and accidental circumstances as a statement of something essential.

## 3. Upacärachala

The critic takes in its litersl sense, and so is able to deny, a statement which the speaker obviously intends in a figurative sense. The example given is "the platforms shout", which of course is used in the sense "the people on the platforms shout '. The term 'platforms' is intended in the secondary sense and understood in the literal sense (bhaktyā prayoge prädhänyena kalpanam. NBh p. $57 \mathrm{ll} .15-16$ ). The procedure is futile because unless you contradict the speaker's words in the sense in which he intends them you are not contradicting him at all.

The first and third of these are plainly fallacies in dictione. The second is equally so, though less plainly: for it turns on a deliberate misunderstanding of the structure of the sentence: for a sentence which is obviously intended to be constructed " this man-the Brahmanis learned ", is construed into the form " this man, being a Brahman, is learned '". It is therefore rightly classed as a case of chala, i.e. fallacy in dictione. It can be brought under the rubric of amphiboly, in the Aristotelian classification of the fallacies in dictione.

## SEOTION 8. THE GOPHIETICAL OR DIALECTICAL REFUTATIONS (JATI)

The definition is given by anticipation at I.ii.18sadharmyavaidharmyäbhyä̀m pratyavasthānam jatih, 'the jāti is a counter-argument through likeness and difference'. Of course, on the Naiyãyika theory of inference, strictly logical arguments also proceed through likeness and difference. What differentiates the dialectic devices to which the common designation jati is given, is the nature of the likenesses and differences on which
these dalectic semblances of logical demonstration rely. Vátsyäysna says on this sūtra :-
': "Thè diálectiçal consequencés which áre generated ${ }^{1}$ Whèn a logical reason is employed are called jäti (prayukte hit hetau yah prusango jāyate, sa jatihh). . Where the ceason is 'a proof of the probandum from likeness to the exámple' (NS I.ı.34), the jāti is a counter-argument relyfing on some unlikeness to the example. Where the reason is 'a proof of the probandum from unlikeness to the example' (NS I.i.35), the jāti is a counter-argument through likeness to the example. A jāti $1 s$ thus something generated ${ }^{1}$ from opposition (pratyanīkabhăvā? jāyamāno 'rtho jātur atı).
: The last siutra of the first book states that there are many kinds of $j \bar{a} t i$, and of nigrahasthāna, arising from the variety of likenesses and differences ${ }^{2}$ which may serve as the ground of dalectical demurrers ( $j \bar{a} t \imath$ ), and from the various sorts of misunderstanding and fanlure to understand which constitute futility (nuyrahasthäna). But, contrary to the usual practise of the first book, no emumeration or division of these two 'categories' is here given On the other hand, when we come to the fifth book which treats of the varieties of jäti and nigrahasthäna, we do get a division of jätı's (V.i.1) and a division of nigrahasthäna's (V.in.l), followed in each case by a series of definitions of the different kinds of each. And these two series of definitions constitute the whole of the two sections of the fifth book, so that the book reverts to

[^275]enumeration and definition (uddeśa and laksanạa), whicis are the characteristics of the first book; though it no doubt also contains that 'investigation' or examination of concepts (parikşă) which characterises books II-IV ${ }^{1}$ This might suggest a suspicion that the fifth book is a later addition. But the attempt to keep definition altogether distinct from examination is one that is bound to break down in places: and this is notably the case 10 dealing with the dralectical types of argument, the treatment of which, like that of fallacies, is mevitably largely a matter of classification.

As to the postponement of the classification, the mere length of the enumeration made it almost inevitable that it should form a separate book; and the same reason would have suggested the convenmence of postporing a disproportionately long treatment of two categories and of proceeding at once to the 'examination' of the other categories in the second book There is therefore ne sold ground, so far as these considerations go, for the view that the fifth book is a later addition. It has, sc far, as good a claim to be treated as an integral part of the early system as any of the other books.

Nor does it seem to be true that the topic is a relatively ummportant one, which need have formed no essential part of the orignal system, but may rather be regarded as the product of a subsequent scholasticism. The truth rather is that it was very necessary at the outset to settle what was fair argument and what was not, and that the topic lost its importance for the later schools just because the system had from the outset dealt so thoroughly with. sophistical opponents that its account of the matter was embodied even in the subsequent logic of

[^276]those very opponents-that is to say the Buddhistsagainst whose methods we may perhaps conjecture that the fifth book of the Nyäyasutra was largely directed, Aristotle devotes as much space proportionately to the Sophistici Elenchi' ${ }^{1}$ as the Nyãyasūtra does to the doctrine of jati and nigrahasthäna; and if we are to condemn the latter as serious trifling we cannot exempt Aristotle's treatise from the same condemnation. But the fact that in both systems of $\operatorname{logic}{ }^{2}$ we are confronted with the same phenomenon of a careful attention to mere sophistry would seem to indicate that in the beginnings of systematic logic (at any rate in a social environment in which inordinate importance was attached to even a rhetorical success in debate, as was the case in ancient Greece and India) the exposure of the sophistical method was a serious task ${ }^{3}$.

The names of all the twenty-four jāti's end in the word sama, which denotes equality or 'parity', and seems to signify that the defendant's reasoning (sthäpanähetu) is equalised or counter-balanced by a parallel dialectical semblance of proof. The names may usually be translated 'the counter-argument by


#### Abstract

${ }^{1}$ I do not mantion the Topict, because Indian Logic did not develop s doctrine of dialectical argument from 'common places', -ss opposed to logic proper on the one hand and to sophastic on the other It is true that the Nydyanalta advocates the use of sophustry and wrsughing for the defence of truth likenung it to the hedge of thorns with which we protect the young shoots (NS IV. 1. 60). But this is meldantal, and only mesns that you should be sble to use your enemy's weapons. It is nowhere suggested that the wie of dialectical argumente is intrinsically justifiable as leading to probable conclusions where demonstration is not available.


[^277]${ }^{4}$ As tranalated by Jhy.
e.g. 'the counter-argument by similarity', and so on. The whole list is as follows :-

NS. V.i.1.

1. sädharmya-sama
2. vaidharmya-
3. utkarṣa-
4. apakarsa-
5. varnya-
6. avarnya-
7. vikalpa-
8. sädhya ${ }^{1}$ -
9. präpti-
10. apräpti-
11. prasañga-
12. pratidTsț̄̄nta-
13. anutpatti-
14. saḿsaya-
15. prakarana ${ }^{1}$ -
16. ahetu-
17. arthäpatti-
18. aviseşa-
19. upapatti-
20. upalabdhi-
21. anupalabdhi-
22. anitya-
23. nitya-
24. kärya-

That is to say, the sophıst or dialectician (jäti-vādin) may give the appearance of a refutation (düsanābhäsa) of even a valid argument by the use of one of these 24 dialectical devices ${ }^{2}$ :-

1. He may produce an irrelevant likeness to non-P,
2. or an irrelevant difference from P .
3. He may add to S qualities possessed by P's which are not proved by M,
4. or subtract from S qualities which it possesses but which are not possessed by P's.
5. He may argue that since $P$ as the thing to be proved is to be shown in S , it is equally to be shown in the evidential cases adduced,
6. or that if $P$ is not to be shown in the evidential cases, it is equally not to be shown in S .

[^278]$\therefore$. 7 7. As M may optionally be thought of as accompanied or not-accompanied by an accidental circumstance, Y , so there is an equal option of supposing M to be P and to be non-P.
8. Since the evidential cases are ex hypothesi like $S$, and since $S$ is only doubtfully $P$ (sà̀digdhäsädhyavat), P being probandum, -then P is equally probandum in the evidential cases.
9. $M$ and $P$ are already unted, so that there is no passage from $M$ to $P$;-
10. or, M and P are disunited, so that M will never prove $P$.
11. The defendant does not prove that his proof is proof, so that there is a further question to be settled,
12. and, if there is to be no proof that proof proves, a counter-instance may always be adduced (the question of its cogency will never arise, since we need not show that our so-called proof is a proof).
13. A cause becomes a cause by producing its effect, and therefore prior to the production of the effect the cause 18 no cause: and so (since effects cannot he produced in the absence of causes) there is no production of effects.
14. Any inference is inconclusive because any $S$ will possess some point in common both with P's and with non-P's : and a quality which is thus eommon will always give rise to doubt whether S is P or non- P .
15. Any middle term is exposed to an antinomy and therefore only raises, without settling,
the question-at-issue. (This means that if you can find an $M$ which is $P$, you can always-e.g. under No. I-find in S another quality which 18 non-P. So there will always be what later logic called a satpratipaksa, i.e. an antinomy.)
16. The supposed probans-probandum relation implies antecedence and sequence and yet is destroyed by the introduction of temporal distinctions: and so the reason given is always no reason.
17. Any argument carries with it an implication of the contradictory. If the defendant says that $S$ is $P$ so far as it is $M$, then he implies that it must be non-P so far as it is other than M.
18. If resemblance in a point makes things identical in another point, then there must be complete non-difference of all things (so far as they resemble each other at all).
19. It is arbitrary whether you choose $M$ as your middle-thereby proving that S is P -or some other quality of S , such as Y -thereby proving that $S$ is not $P$. Therefore the conclusion is a mere contingency (you may draw it, but you need not).
20. You have experience of $P$ in the presence of M: but you sometimes have equal experience of P in the absence of M ( P following from various conditions-'Plurality of Causes').
21. So far as an argument relies upon non-perception as proving non-existence of something, it can always be retorted that there is equal non-perception of your non-perceptiop-
which does not therefore exist. . Ergo, that which you assert to be non-existent may be existent after all.
22. It can be argued that everything is equally non-eternal because everything has some resemblance (e.g. in respect of existence or knowability) to such non-eternal things as a pot,
23. or that, since what is non-eternal is eternal in its non-eternality (truth being eternal), everything is equally eternal.
24. Since the coming into existence of a new product cannot be distinguished from the mere manifestation of the already existent, what looks like an effect may after all not be an effect. (So that you might as well maintain, with the Säm$\dot{m} k y a s$, the doctrine of satk $\bar{a} r-$ $y a v a ̈ d a$, as maintain with the Naiyāyikas the doctrine of asatkäryavāda.)
The fifth book of the Nyāyasūtra and Vātsyāyana's comment on it contain some interesting matter. The following observations deal with points of interest which are raised in connection with certain of the jätis.

Nos. 1 and 2. Parity of likeness and unlakeness Sädharmyasama go together. If a conclusion is proved and vaidharmya- afirmatively or by likeness to the sama. example, it will always be possible to point to (a) a likeness, or (b) an unlikeness of the case in question to other well-known examples, in proof of the opposite : and similarly if the conclusion is proved negatively or by difference from the example. Thus let it be argued that the soul is active, because it possesses qualities which are the cause of activity, like a piece of matter. It can be retorted that (a) the soul is like ether, which is inactive, in respect of
being all-pervading; and that (b) it is unlike a piece of matter which is active, in respect of not being of a determinate shape. Similarly let it be argued, negatively, that the soul is inactive, because it is all-pervading, unlike a piece of matter. It can be retorted that (a) the soul is unlike ether, which is inactive, in respect of having qualities which are the cause of activity (e.g. volition, and merit-demerit); and (b) it is like a piece of matter, which is active, in respect of activity-causing qualities (which, in the case of the piece of matter, are represented, as Vācaspati points out, by conjunction with a tangible object which possesses vega, energy or velocity).

The sütrakara's solution of this difficulty is obscure: gotvād gosiddhivat tatsiddih (NS V.i.3),-" 'the conclusion (of a valid syllogism) is proved in the way in which a cow is proved, from its cow-hood ${ }^{1 י}$. This suggests a very sterile view of inference; and it is not as a matter of fact the sort of inference contemplated in the trividham anumānam of NS I.i.5. In any case it seems to have had no influence on the theory and practice of the Nyäya school: though the later Vaisesika school made use of merely formal inference of this sort to 'prove' that a thing is what it is becanse it is not other than what it is; and the habit of such demonstration by identity is a deformity in such a Vaisesika manual as the Saptapadārth $\boldsymbol{\imath}$ of Siväditya.

Vãtsyăyana explains the suitra to mean that inconclusiveness (avyavasth $\bar{a}$ ) will be found when a proof

[^279]is proposed by mere likeness or by mere difference (sādharmyamātreña vaidharmyamätrena ca sadhyasädhane pratijââyamäne), but will be impossible where a peculiar character (dharmavisega) is taken as the middle term or probans. The proof of being a cow is from that likeness to other cows which constitutes cow-hood, and not from its having a dewlap, ete. ${ }^{1}$.

He himself refers us to that section of his comment in which he dealt with the 'Members' of syllogism. The reference is to NBh p. $45 \mathrm{ll} .6-10$, on NS I.i.39; which may be rendered :-
" When the reason and the example are correctly taken (parisuddhi) they do not give rise to the various dialectical devices and futilities which spring from the option of a counter-argument based on likeness and unlikeness. The fact is that the dialectican's (jätiväd $2 n$ ) counter-argument presupposes that the relation of probans and probandum in the example has not been established. If the probans-probandum relation of the two qualities, as it exists in the example, is apprehended as establıshed, then it is a probative character that is taken as. reason or middle term, and not a mere likeness nor a mere difference (sädhanabhūtasya dharmasyopādānam, na sādharmyamätrasya na vaidharmyamätrasya $\overline{\bar{a}})^{\prime \prime}$. This is a plain statement of difference between a properly logical argument and mere dialectic: though it must be admitted that Vātsyayana does not succeed in telling us how we are to distinguish a sädhanabhütadharma or viseşahetu from a mere likeness or difference. That is, he does not give us any such canon of argument as the trairüpya (see however under No. 22 infra). A justification for not telling us how proof proves is perhaps to be found in the interesting piece of Socratic

[^280]questioning whth which he replies to No. 11, the prasangasama jäti, the burden of which is to demand from the Naiyāyika the credentials of the drsṭanta or probative instance on which his syllogism relies. " 'What persons take a light, and for what purpose?' 'Persons who want to see, for the purpose of seeing something that is to be seen'. 'Then why do not people who want to see a light take another light (to see the first light by)?' 'Because a light is seen without another light, and so taking a light to see a light by is useless'. 'Well, for what purpose is the example employed (in a syllogism)?' 'For the purpose of giving knowledge of something not known'. 'Then for what purpose is a statement of proof (kāraṇāpadeśa) required in the case of the example, if the example is something known (prajñāta) which is adduced for the purpose of giving knowledge (of what is not known. prajñāpanärtham sc. aprajūātasya)? In fact an example is defined as something in regard to which there 18 unanimity of lay and learned ( $8 a$ khalu laukikaparīkşakānā่̀̇ yasmin arthe buddhisāmyam, dresțānta $i t i$ ). Statement of proof is useless for the purpose of giving knowledge of what 18 so defined'. This is the answer to the prasangasama', ${ }^{\prime \prime}$.
No. 8 Sädhyasa- 'Parity per probandum'
$m a$. (Thă) consists in attributing to the Example, not the

[^281]property $\mathbf{P}$ as such, but the property P as probandum, as major term of the syllogism, i.e. as something that is to be proved. ("You say that the example has the property to be proved. But the 'property to be proved, is still to be proved, and so you cannot be certain that the example possesses it ").If the soul is like a piece of matter, then the piece of matter is like the soul. But the soul is the sädhya, that of which the property P is to be proved. Ergo, the example resembles it in being something of which the property is to be proved. And if you say : "But the piece of matter is not like the soul in the respect of being the sädhya ( $=$ sädhyadharmin, or paksa) of the argument", the opponent will say "then neither is the soul like the piece of matter in the respect of being active".

The real difference between the sädhyasama hetväbhäsa ${ }^{1}$ of Book II and the sādhyasama jäti of Book V is this, that the former is a just charge of petitio principii brought against a particular syllogism, while the latter is a mere dialectical device for bringing the same charge, unjustly, against any syllogism whatever, good or bad.

No. 14 Saṁsayasama.

The Naiyāyika has argu-
ed that sound is non-eternal because it follows upon volition, like a pot. The opponent cannot show that this argument is savyabhicāra: but he says that another middle term could be taken which is savyabhicära, and therefore generates doubt; for instance, sound is perceptible by sense,-but things perceptible by sense are sometimes eternal (as in the case of Universals) $)^{2}$ and sometimes non-eternal (as in the case

[^282]of a pot). This creates a doubt as to whether sound is or is not eternal.

Uddyotakara points out that the difference between this sophism and No. 1, the sīdharmyasama, is that the latter arises from ekasadharmya (taking a middle term which is found with non-P, instead of with P), whereas the present dialectical device consists in taking as middle term a quality of $S$ which is common both to $\mathbf{P}$ and to non- $\mathbf{P}$ (ubhayasadharmya).

This is a dialectical device for attributing to any argument the fallacy of savyabicara. It is related to that fallacy just as the sädhyasama jäti and the prakaranasama jäti are related to the correspondingly named fallacies.

The next sutra (V. i. 15) gives the obvious solution of this sophism. "Although doubt arises from a quality common (to $P$ and non-P), there is no doubt after the character which differentiates ( S from nonP) has been grasped'. The sūtra is an abnormally long one and adds an argumentum ad hominem ${ }^{\text {x }}$ against the Bauddha who uses this piece of dialectic: "And since you do not admit the eternality of the universal you cannot contradict our argument on this ground (i.e. on the ground that sound resembles the universal, and that the universal is eternal)".
No. 15 Prakara- This is a dialectical denasama.
to any argument. Since, even in the case of a valid argument, such as ' sound is non-eternal, because it is a product of volition', there will be found some quality in which the minor term (S) resembles non-P's ${ }^{2}$ (as well as a quality in which it

[^283]resembles. P's ubhayasädharmya), it can always be maintained that even a valid middle term merely 'starts a question' (prakaranam pravartayati), i.e. gives rise to an antinomy (ubhayasaddharmyät prakriyāsiddheh prakaraṇasamah. NS. V. i. 16).

No. 16 Rejoinder
.that a reason
is no reasan
(ahetusama)
NS V. i: 18.

Any so-called reason is just like a reason which is no reason. How so?-traikāl$y a \overline{s i d} d h e h$, -because the reason as such is asiddha, not established to exist, at any of the three points of time, past, present and future

For the reason is the probans, and it must exist either before, or after, or simultaneously with, the probandum. If before, there is as yet no probandum for the so-called probans to prove, and therefore it is not a probans. If atter, since the probans does not yet exist there is nothing of which the so-called probandum is the probandum (and therefore it cannot be called probandum, and so the probans being Teft without a probandum is not a probans). If simultaneously, then, since both exist together, which 18 probans of which? and which is probandum of which? A reason, therefore, eannot be distinguished from what is not a reason (hetur ahetunā na visigyate). The ahetusama is a rejoinder based on the resemblance of a reason to what is not a reason (ahetunā sädharmyăt pratyavasthānam ahetusamah).
[This sounds Buddhistic, and resembles the kind of dialectic employed by Nāgārjuna aganst the validity of reasoning, in his Mädhyamıka Kärikä.]

[^284]Solution of No. 16 'NS. V. i. 19-20.

It is not true that the reason is not established to exist at any of the three points of time. How so? Because it is by a probans that any probandum is proved: And this huge perceptual universe serves as an example of the truth that there is a means of denying things that are to be denied, and a means of knowing things that are to be known. As to the query-In the absence of the probandum, of what will the probans be the pro-bans?-the answer is that it will be the probans of whatever is to be denied or whatever is to be known.

The solution so far is simply an appeal to the fact that knowledge does exist; and therefore means of knowledge. Sūtra 20 adds the obvious argumentum ad hominem. -

Since your rejoinder condemns reasoning as such, contradiction also becomes impossible, and therefore you cannot contradict what you are setting out to contradict! (You have yourself given a reason for denying the validity of reasoning: therein contradicting yourself.)
No. 17 Rejoinder
by Implication (arthãpattisama) NS. V. i. 21.

Implication will always convey the contradictory of any conclusion, and so every argument is exposed to the arthäpattisama dialectic. Thus, if you argue that sound is noneternal because of its likeness to non-eternal things, then from your very statement there emerges the implication (arthäd appalyate) that, because of its likeness to eternal things, it is eternal 1 And as a matter of fact sound is like an eternal thing, namely, ether, in respect of being intangible (this howéver is trged by way of another piece "of dialectic, siz--No" I, sādharmyasa-ma- It-is mentioned here merely ins confirming the result of the rejoindersbysuphitation'火":

The use of arthäpatti is different from and more primitive than its use in the classical Nyaya, and the Mimämsä. In the Nyâya Suitra and Bhäsya the term means nearly what it meant in the lists of tantrayukti in Kautilya and Susruta, viz., the verbal or semi-logical implications of a statement. When a man says ' S is P , because it is like X ,' he may always be taken to imply that in so far as it is not like X it is not $\mathbf{P}$. There is of course no logical necessity about such 'implication', as the Naiyäyika points out in the solution given in the next sütra.
Solution of No. 17 In the first place, if we NS. V. i. 22. are to read into statements meanings which are not stated, then we can read into the opponent's statement that sound is non-eternal because it resembles products, like a jar, the implication that it is eternal in so far as it resembles in respect of intangibility eternal things like ether: which of course is destructive of his thesis (pakṣahāni).

And yet we can read this implication into his statement,-just because it is not stated! In the second place, such implications from bare opposition (viparyayamätrād arthäpattih) are not logically cogent but inconclusive (anaikäntika). In the statement that solid bodies fall it is surely not implied that water, which is not solid but fluid, does not fall! No. 18 Rejoinder
by Non-difference (aviseṣasa-
ma) NS. V. i. 23.
One quality is found common to sound sad such things as pots, and on the strength of it you infer that sound is non-different from these
things in being non-eternal.
Very well then-you expose yourself to the dialectical rejoinder that everything is non-different from everything else: because the one quality of
'existence' is found in all things: and on the strength of this we may infer that all thinge are nondifferent, i.e. identical.

Reply to No. 18
NS. V. i. 24.

We infer another quality, viz., non-eternality, from the quality of ' being produced by volition which is common to pots, etc., and sound. But there is no other quality common to all things which has as its cause the property of 'existence', so that we could infer the 'non-difference' which is asserted - You may say that non-eternality itself is this other property in respect of which all things are non-different. But the inference to the conclusion that all things are non-eternal could have no evidence in support of it other than the subject (' all things ') itself (pratijñārthavyatiriktam anyad udäharanam nästi) ${ }^{1}$. And if there is no example a reason cannot be valid (anudāharanaśs ca hetur nästi). And you may not take part of your subject for an example: for that which is to be proved cannot be an example (pratijnaikadesasya codäharanatvam anupapannam, na hi sādhyam udäharanam bhavati).

And since existent ${ }^{3}$ things are both eternal and non-eternal, the conclusion that all things are noneternal is impossible. Therefore the inference of the identity of everything, from existence, is a meaningless proposition.

And if our opponent maintains that all things are non-eternal because they exist, he has admitted thereby that sound is non-eternal: and it becomes

[^285]impossible for him to deny this position (which he desires to deny) ${ }^{2}$.

The main interest of this passage is (i) the anticipation of later doctrines as to the necessity of examples in a valid inference-if there is neither sapaksa nor vipaksa there is no evidence at all, and therefore no inference. Later logicians however sometimes admitted the validity of an inference about 'everything'-o.g. all things are nameable, because they are objects of knowledge. (ii) There is a reference to the argument from the nature of the existent to its transitory character (ksanikatvavāda) But the argument is so formalised in its presentment that it loses all the force which it has (for instance) as presented in the chapter on the Bauddhas in the Sarvadarsanasamgraha.-It may fairly be suspected that this often happens in this shapter on $j \bar{a} t i$; and that many of the dialectical difficulties here dealt with were much more genuine difficulties than they appear to be when presented formally as this or that ‘jāti'.
No. 19 Rejoinder
by Contingency
of Cause (Ground): or, Equal Possibility (upapattisa- to take the other you get the $m a$ ). NS. V. i. 25. contradictory result. Thus, if you take the fact that sound is a product of volition-which is a cause or ground of non-eternality-you will infer that sound is noneternal. But it is equally open to you to take the fact that sound is intangible-which is a cause or

[^286]ground of eternality : and then you will draw the conclusion that sound is eternal. Such rejoinder through possiblity of taking the ground of either conclusion (ubhayasya käranopapattyā pratyavasthānam) constitutes " the dialectic of equal possibilities " (upapattisama) ${ }^{2}$.
No. 20 Rejoinder This rejounder is based by Plurality on the fact that there is experience
of Causes (upalabdhisama)
NS. V. 1. 27. (upalabdhi) of the effect even in the absence of the alleged cause (nirdişțakāranābhāve 'py upalambhād upalabdhisamah). The ground which the defendant alleges for the non-eternality of sound is that it is a product of volition. But noneternality of sound is found also in the case of the sound made by the boughs of trees broken off by the wind-in the case of which the alleged cause of the non-eternality is not present. Upalabdhisama is the name for the retort based on the fact that we perceive the probandum-quality even in the absence of the alleged probans (nirdisṭasya sādhanasyābhäve ${ }^{\circ} p i$ sädhyadharmopalabdhyă pratyavasthänam upalabdhisamah)
Reply to No. 20 The defendant's position is NS. V. i. 28. not contradicted by the fact that that property arises from other reasons as well (kāraṇāntarādapi taddharmopapatter apratisedhah).-The man who argues that sound is eternal because it follows on volition means to assert that it follows from $a$ cause, and not that the effect is restricted to this particular cause (na käryasya

[^287]karananiyamah). And he is not contradicted by showing that the non-eternality which he affirms may be deduced from another ground also.
(Of the two valid anvayavyatirekin types of inference which were recognised both by Buddhist and by Naiyäyika logic, one is that in which-as western logic would express it-the major premise is not ' simply, convertible', i.e. in which all $M$ is $P$, but not all P's are M. It is to this type that the present rejoinder applies. Uddyotakara's rubric for this type is sapaksaikadesavrtti, and the stock example is 'sound is non-eternal because it is the product of volition, like a pot'.)
No. 21 Rejoinder
(This rejoinder is directed
by 'Unperceived non-perception' (anupalabdhisama) NS. V i. 29. against the defendant's proof that a thing is not present because he does not see it). The rejoinder to this is that " the opposite is possible, seeing that the absence (of his non-perception of the thing) may be argued on the ground that he does not perceive his non-perception'. The sütra is involved, but there is no room for doubt as to the nature of the dialectic intended :-
$A$. I do not see it, so it is not there.
B. But do you perceive your non-perception of it?
A. No.
B. Then (by your own reasoning) your alleged nonperception does not exist: in which case the thing may be there after all!
(This will amount to proving that you see what you do not see. But perhaps it is not quite so absurd as it looks. For faifure to perceive may in fact be no proof that the thing was not there. Non-perception must fulfil certain conditions if it is to be a proof of absence).

In an introductory comment to this sütra Vatsyāyana interprets this piece of dialectic as applying to the argument for the non-eternality of sound ${ }^{1}$. " It cannot be said, as the Mimämsaka says, that sound existed even before that manifestation of it which the Naiyäyika calls the 'production' of it, but that it was not perceived on account of certain obstacles or impediments (ävarna) which constitute causes of non-apprehension (agrahanakärana). For (as we Naiyäyikas hold) had there been such impediments they would have been perceived. But they are not perceived, and therefore do not exist." And so there is no reason to suppose that sound is not a product but existed even before it was ' manifested '

To this argument the Rejoinder by Unperceived non-perception supplies an answer.-"The nonperception of these concealing agencies is itself not perceived, and from its not being perceived its nonexistence follows and, its non-existence being thus established, your reason for asserting the absence of the concealing agencies disappears: and, from the absence of this reason, the contrary conclusion-existence of obstacles-is confirmed. . . . This reason 'nonperception of obstacles' is countered by an equal nonperception (samayānupalabdhyā pratyavasthitah)-non-perception not only of the obstacles but also of the non-perception. And this is called anupalabdhisama."
Reply to No. 21 "The reasoning is invalid, NS. V. i. 30 . because non-perception is no more and 31. than absence of perception." Anupalambhātmakatvād anupalabdher ahetuh.

[^288]By failing to perceive what does not exist, you do not prove its existence! " What exists is the object of perception : and the proposition 'this exists, is based on perception. What does not exist is the object of non-perception, and the corresponding proposition is 'this, not being perceived, does not exist'. Now this non-perception of the non-perception of obstacles, working on its proper object, ie. on a perception which does not exist, does not belie or contradict that object: and its object-non-perception of obstacles-being thus not belied or contradicted is competent to serve as the reason in our argument.Obstacles, however, because they are existent things, are objects of perception, and there ought to be perception of them. That they are not perceived is due to absence of the perception which would convey the knowledge of the proper object of the perception. and as a result of the non-perception the object proper to the non-perception is conveyed to us, in the form 'there are no obstacles which would cause nonspprehension of sound '. So our non-perception is (in fact) established by the very fact that we do not perceive it (the non-perception),-in other words the absence of perception is the proper object of the nonperception of the absence of perception "'"

The answer amounts to this. Non-perception is absence of perception. Therefore, as an absence. it is the appropriate object (not of perception, but) of non-perception. I expect to perceive a jar but I expect not to perceive the absence of a jar. So I should expect to perceive a perception,-and therefore not to perceive a non-perception.-The solution of the difficultv (which is a real one) is obviously not complete: for the consciousness that something is not there is in fact not an absence of consciousness, though it is certainly quite a different sort of consciousness from the consciousness that the thing is there.

The following sūtra completes the solution by recognising that consciousness of not perceiving is after all something more than mere absence of perceiving -
NS. V. i. 31.
"(And further the reasoning of the Rejoinder is invalid) because there is a feeling within us (samंvedanād adhyätmam) of the presences and absences of the different kinds of cognition'. Vātsyāyana explains :-"Within the body of embodied beings the presence and absence of the various kinds of cognition is felt (samvedaniya); The consciousness 'I have a doubtful cognition, (samśayajãānam) ${ }^{1}$, ' I have no cognition of doubt,' is one among the various classes of cognttion produced by perception, inference, testimony, and scripture ${ }^{2}$. And this non-perception of obstacles, etc,-or absence of perception-is self-felt (svasamivedya), and we, say ' I have no perception of obstacles to sound,' ' obstacles which would cause the non-apprehension of sound are not perceived.' The alleged contingency that ' absence of non-perception is established because we do not perceive the asserted non-perception' cannot arise here (because we are conscious of it).

[^289]The interesting thing in this discussion is the account of self-awareness indicated in stitra 31 and in the Bhäşa thereon. The Bauddha view was that a state of mind is aware of itself (svasamvedantiya). The Mimämsaka held that the soul has awareness (samvit) of its own states, but not as objects: the awareness not being parallel to knowledge, since in knowledge we are cognising objects (prameya), while in this 'awareness' we are aware of the states of consciousness as such, i.e. as subjective (samvittayaiva samvedya ${ }^{1}$ ). The classical Naiyāyika view disagrees with the Bauddha, who holds that it is the state of mind that is aware of itself; and agrees with the Mimämsaka who maintains that the soul or self is the knower. But it differs from the Mīmämsaka view in making ' inner perception' ( mānasapratyakşa) completely parallel with 'outer perception' (bähyendriyapratyaksa), having for objects the qualities of the soul, and having for sense-organ manas. Inner perception is thus only one kind of sense-perception, arising as it does from indriyārthasamnikarsa, contact of senseorgan and object.

In the present passage this typically Naiyāyika view of self-consciousness is ignored, and the phraseology is suggestive rather of the Bauddha or the Mimämsaka view.-So far as the sütra itself is concerned this is only to be expected; for the sūtra nowhere asserts that manas is an indriya or organ of inner pereeption, but on the contrary explicitly denies this in at

[^290]least one passage (III. ii. 56, aindriyakatvād rūpädinām apratisedhah), where it is argued that cognition (buddhi) cannot belong to the body like physical qualities such as colour, because physical qualities are either perceived by a sense-organ or imperceptible, whereas cognition is perceptible but not by any senseorgan. Vătsyāyana commenting on this says that cognition is not imperceptible, because we are conscious of it (näpratyakṣā samivedyatvāt), but that it is not grasped by a sense-organ because it is the object of manas (nendriyagrāhyā manovişayatvāt). This is plain enough : and there are many other passages in which he uses the language of sam${ }^{2} v t t i$ and samvedana ${ }^{1}$ and none in which he speaks of mänasa-prałyaks. The latter doctrıne is certainly a post-Bhäsya development : though the germ of it is to be found in the admission into which in one passage ${ }^{2}$ Vātsyăyana allows himself to be forced by the apparent logic of facts, that the sister-sasstra is right in classing manas as an indriya and that this implication is to be read into the Nyāya-sūtra itself. Dinnnāga forcibly pointed out the corollaries of this admission, with the result that the later Naiyäyika school allowed itself to be hampered with the unfortunate 'internal sense' (mänasa-pratyakṣa) view of self-awareness. Manas in its proper function of the organ of attention is of course concerned in the apprehension of our own mental processes, as it is in every other form of apprehension : and the Naiyäyika made a valuable contribution to psychology in his insistence on this. It was very unfortunate that the school should have allowed itself to confuse its doctrine of manas by assigning it this other function as an 'inner-sense organ.'

[^291]No. 22 Rejoinder by parity of non-eternality (anityasama). NS. V. i. 32.

Since from a likeness com: munity of property follows, the consequence will be that all things (and not merely sound) are noneternal, because all things resemble the pot, which is non-eternal.

This is, as Uddyotakara points out, merely a special application of avisesasama, No. 18; which is a dialectical device for showing that everything can be proved of anything, so that in effect no specific proof exists.
Revlu to No 22
NS. V. i. 33-34 the contradictory of the defendant's position: because (on his own showing) resemblance invalidates proof, and his own proof (in respect of being the normal five-membered syllogism) resembles the defendant's argument, which is asserted to be invalid ${ }^{1}$ !
Sütra 34.
Further, because the 'reason' is a quality known in the example to stand in the relation of a probans to a probandum (sādhyasädhanabhāvena prajnātasya dharmasya hetutvät), and because it is found in both ways ( ubhayathäbhärät), it is not true that our middle term fails to distinguish or is not specific (avisesah.)."

There are two things of interest here in connection with the logic of the early school. (1) A valid hetu is a visesahetu. If a middle term fails to be 'distinctive', it is avisesa. Later on, the conclusion was reached that the distinctiveness of the valid middle consisted in exclusion from non-P : so that one of the

[^292]Bauddha logicians (either Vasubandhu or Diñnāga) offers as a definition of a valid middle term the phrase vipakṣād visesah. "that which excludes from non-P." Now the dialectical device of avisesasama-No. 18, which is identical in principle with the present $j a t i$,consists in attempting to argue that the very principleof inference is such that there is always exclusion from non- $\mathrm{P},-$ so that we can infer always that everything is P (nothing is non-P, everything is excluded from non-P). But when a differentia applies to everything, of course it ceases to be a differentia. The dialectic therefore amounts to saying that there is no such thing as a viseşahetu. (2) Now in refuting this dialectical attack on inference the sūtrakāra is compelled to ask himself what constitutes the 'distinctiveness' of a hetu: and I think that in the phrase ubhayath $\bar{a} b h a \bar{a} \bar{a} t$ he does in fact foreshadow the analysis of the 'canons of syllogism' embodied later in the trairūpya. The ' distinctiveness' of a middle term, according to thetrairupya, consists in the fact it is (a) found with P -sapakṣe sattvam, and (b) not found with non-Pasattvam vipakse. It must be this double relation of the middle that is meant, though not precisely formulated, in the phrase ' existing in both ways 'i e. as resident in $\mathbf{P}$ and as excluded from non-P. Vātsyāyana interprets the phrase by kenacit samãnah kutaścid visisṭah-the middle term is "common tosome things and excluded from others." This is a plain foreshadowing of the two 'canons' of the trairuppya referred to above; and there seems to be no doubt that Vātsyāyana is correctly interpreting the meaning of the phrase in the sūtra. He adds in further explanation that " it is a resemblance as a result. of this common-ness, and a difference as a result of distinction "-sāmānyāt sädharmyam, vişeşāc ca vaidharmyam.

We may therefore claim that this passage is the germ of the later syllogistic canons: and it may be that the developed art of syllogistic in India had its origin in the sort of attempt to find answers to sophistical attacks on reasoning which is embodied in the fifth chapter of the Nyäyasūtra. The sophistici elenchi came early in the order of development of logical conceptions. Out of this the syllogistic technic arose, and, having arisen, superseded the older treatment of the sophistici elenchi, which then became rather a historical survival than an essential part of logical discipline.

If this account is correct it will be a mistake to regard the fifth book of the Nyāyasütra as a sort of serious trifling belonging to a rather later period than the rest of the sütra. It must rather be regarded as an integral part of the first earnest attempt to distinguish good from bad reasoning, and to defend the validity of inference.

GECTION 3. THE SIX STEPS IN TU QUOQUE DIALECTIC (SATPAKSI)
The concluding section of the first ahnika of the fifth adhyäya of the Nyäya Sūtra (NS. V. i. 39-43) points out 'for the instruction of the pupil' that a merely dialectical rejoinder to a thesis is always open to a dialectical re-rejoinder or 'tu quoque,' and this again to another tu quoque. Thus far there are four stages in the Satpaksi,- thesis, dialectical rejoinder, tu quoque, and retorted tu quoque. The fifth step consists in the defendant's pointing out that the opponent's tu quoque (the fourth step) involves the admission that his own dialectical rejoinder (second step) is no better than the defendant's tu quoque (third step): which amounts to admitting that his
-original denial of the thesis is invalid, and therefore to an admission of the validity of the thesis itself (matānujñă). The final or sixth step consists in the opponent's retorting with another tu quoque fastening the charge of matänujña on the defendant's $t u$ quoque (third step). Thus:-

1. Thesis (paksia):

Defendant.
Sound is non-eternal, because
it follows after volition.
2. Rejoinder (pratisedha) :

Opponent.
It is not true that sound is non-eternal; for following after effort may as well mean the manifestation of a permanent thing as the production of something that comes into being and perishes.
3. Re-rejoinder (vipratisedha):

Defendant. Your rejoinder is open to NS. V 139 the same retort,-for following after effort may as well mean production as manifestation. Therefore you cannot say that it is not true that sound is non-eternal. Therefore, since you have not disproved my thesis, it stands!
$N S . V$ i. 40.
(The defendant at this point ought to have met the opponent by showing that his own thesis was based on a visesahetu. Instead of that he contents himself with saying that the absence of a viseṣahetu is common to both parties, to the opponent as well as to himself. The next sutra-NS. V. i. 40, sarvatraivam, means that it is always possible for a defendant to give this sort of dialectical reply to any sort of dialectical rejoinder. But in doing so he will commit himself to the barren treadmill of the satpaksĩ, which will then proceed as follows :-
4. Retort to the re-rejoinder.

Opponent. NS. V. i. 41.

Your re-rejoinder (pratigsdhavipratisedha, i.e., the third step) itself commits the same fault which it urges against my rejoinder ${ }^{1}$ (i.e. the second step)-the fault of inconclusiveness (anaikāntikatva). That is it no more disproves my rejoinder, than (as you assert) my rejoinder disproves your thesis. Therefore, as your re-rejoinder does not contradict my rejoinder, my rejoinder stands !

## 5. Rejoinder to 4.

Defendant. NS. V. i. 42. rejoinder No. 3 commits the same fault of inconclusiveness as your own first rejoinder No. 2, you admit that your rejoinder was invald without making any attempt to remove its invalidity: and this amounts to the futility (nigrahasthäna) called matānujñā, i.e. admission of your opponent's position
6. Retort to 5.

Opponent. NS. V. i. 43.

In the same way you yourself in your re-rejoinder No. 3 said that my rejoinder No. 2 committed the same fault of inconclusiveness as your own original thesis No. 1,-and you thereby admitted that your thesis was faulty: which amounts to admitting my contention that your thesis was faulty. Tu quoque, therefore 1 i.e. you too are guilty of the futility called matānujnā.

[^293]Herewith the logic of the tu quoque comes to a natural stop, though not to a conclusion. The satpak$s i$ is not mere trifling. It points the logical moral of the attempt to answer dialectic with the argumentum ad hominem. and it is noteworthy that the last word is left with the opponent. It forms an appropriate conclusion to Gautama's Sophrstici Elenchr.

Vātsyãyana points this moral quite clearly at the end of his comment on V. i. 43 " When does the satpaksī arise? when the discussion proceeds on the lines of there is the same fault in the rejoinder itself', then neither alternative is established (and then the satpakssi occurs). But when the third step is on the lines of the reply given in sütra 38 to the kāryasama jāti,-‘ if sound were not a real effect but only a manifestation, volition could not be the cause of sound: for in cases where the so-called effect is a mere manifestation, there are to be found causes of the non-perception of the manifestation before it is manifested',-then it is a visesahbtu, a demonstration, that is given by the defendant in answer to the rejoinder of the opponent, and he proves his thesis that there is a coming into being of sound after volition, and not a mere manifestation : and so there is no room for the satpaksĩ."

The most significant result which emerges from this examination of the satpaksi is therefore the insistence upon the necessity of a visesahetu, a reason which is peculiar to the probandum $(\mathbf{P})$ and excludes the opponent's alternative (non-P). The Naiyäyika's visesahetu corresponds ${ }^{1}$ in fact to the Aristotelian apodeixis. It is demonstration.

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## SECTION 4. DEFFAT IN DEBATE

Set debates appear to have been a feature of the ancient schools, and Vasubandhu is reported to have written three works on the principles, the expedients, and the method of debate ${ }^{1}$. The closing section of the Nyäya Sutra is devoted to an enumeration of the circumstances in which one of disputants in such a debate is to be regarded as defeated : the twenty-two nigrahasthāna's being the different conditions under which a disputant may fairly be considered to have 'taken the count's. The whole conception is of course rhetorical or eristical rather than logical; and some of the 'points of defeat ' are conventional.

A disputant is considered to ke defeated :-
Inconsistency. A. If he abandons, alters, gives
a reason contradictory of, or denies, his own thesis; and if he shifts his ground for the conclusion ( ${ }^{1-5}$ ).

Irrelevance and
obscurity.

B If he talks irrelevantly, or uses words which have no recognised meaning, or is quite obscure, or

[^295]uses collections of words which convey no meaning as a whole (6-9).
Want of method. C. If his syllogism is not stated in the proper order, or has not the full complement of premises or adds a superfluous reason (10-12).
Tautology. D. If he is guilty of any form of tautology (repeating the same word, or saying the same thing in other words; or saying separately what is already implied in his statement) ( 13 a and b .)
Want of understand- E. If he cannot repeat, ing. or cannot understand, what his opponent has said, or can find nothing to say in reply, or makes obvious excuse for breaking off the debate (14-17).
F. If his reply to the opponent's thesis admits the equal invalidity of his own thesis, if he fails to point out a clincher to which the opponent has exposed himself, or alleges one to which the opponent has not exposed himself ( $18-20$ ).
G. If he abandons the principles of the system which he is supposed to be defending; and if he uses a fallacious middle term (21 and 22).

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[^0]:    ${ }^{1} \mathrm{H}$. Ui Vaideqka Philosophy accord.ng to the Dafapadarthafastra, pp. 11.12

[^1]:    ${ }^{1}$ Pandits asy that Yogesh (plural) was used as an early designation of the Vabseqska school. I am undebted to Mr Kspetredecandra Chatfopadhyisya, lecturer in Sanskrit in the Allshabad University, for drawing my attention to
     mpecifically Nyäya-Vaifapika doctrines, notably that of the asatkäryavada (N. Bh p. 38 1. 6, on NS I. 1. 29). See his note on A Pecuhar Meaning of Yoga, (pablished since this wes written) in JRAS, Oct. 1927, pp. 884-359,
    ${ }^{2}$ Franklin Edgerton, Sdinkhiga and Yoga in the Epme, Am. Journal if Philology, 1924.

    The Samkhyc Karkk appers from Chinese source to be the work of an earher contemporary of Vasubandhu,-Vindhysvisin, that is to say Ifvare Krpips An sccount of perception referred to at NV p. 45114 (Erotrddertter iti) is called Vorqagaqyasya lakqanam by Vacaspetı Mı́rra at NVT p. 103 1. 10, and he 18 perhape citing Varsagayye in the words paficandm khalv sndryänäm arthdkdrona parmatdndm alocanamatram pittsr sfyate. (The terms sre Sathkhya-yoga: but slocanamatra figure in Prasestapsde's socount). Virgaganya is a definitely hustoracal figure, perhaps the first historsal figure in the Samkhya.Yoga tradition. We know the name of his work-the saftitantra-, sad we have several referencea to and citations From him. See Keith Sdmkhya System pp. 68-68, Woods YSP p. xx.

    For 'Vindhyavisin' see Blokavartika, anumana, 148. The reference m not clear, but might be to Samkhya Kärikd 8-6. But the equation Vindhyavionn =Ívare Krapa in not eatablabed.

[^2]:    ${ }^{1}$ Journal of the Amerscan Orvental Socsety xxx, 1911.
    ${ }^{2}$ Eiputemology and Logic as taught by the Later Buddhists, 8t Petersburg, 1809. This is in Russian; bit s commaniction from Stcherbatuky summariang his arguments is embodied in Jecobi's artiole above referred to.-Stcherbstsky's work hag now been translated into German. by Otto Stranss, Neubiberg, 1994 The tranalation contans an appendix contributed by Etcherbstaky in which he admits that the view put forward by him in 1009 can no longer be maintained. See next note,

[^3]:    ${ }^{1}$ In hus Addendum to Chapter I of his Epratomology and Logic of the Later Buddhusts, contributed to the German translstion of that work (Bris. onntnuatheove wnd Logik nach dor Lehrs der apateron Buddhuston - ebersoter: von Otto Streuss : Minchen-Newbiberg, 1924, pp. 259-266).

[^4]:    supposition does not meem necessary, and other arguments which he adduces for a rolatively late date ( 450 A.D) for the redaction of the Yogasatra are perhape not conclusive. His argoment 18 however cogent aganst the late tradition which identifies the author of the Yogasitia with the author of the Mahabhdqya.
    ${ }^{2}$ Vidyabbhapans, Hustory of Indian Logso, pp 46-47: Nydyacūtra of Gotams p. I. Parallelisms with one or two hnes in the Lâkedvatara which he pointif out are, as I srgue below, of no valine as evidence.
    ${ }^{3}$ Kaith, Indran Logic and Atomumm, pp. $22-95$.
    TThe same conasideration might be thought to prove an esrly date for the Mimathed Sutra. But absence of reference to the Bauddha schools here could be explsined by the fact that the Mimathed Satra is not a system of philosophy, but of exegetics. MS I 15 refers by name to Badariyans, the reppted suthor of the Vedinte 80tra : though this in itself proves nothmg.

[^5]:    
    ${ }^{2} V$ edintilialtre, first and second padae of the socond adhylye: Nydyd-sitrs, adhydya III, and IV.

[^6]:    ${ }^{1}$ Kerth, ILA, p. 95. The only parallel he gives is NS III. 11. 14$16=$ Fed. 8. II. 184 But this is only the 'atock exemple' of curde arising from milk, and does not amount to evidence. The Bhagavadgita 18.5, 15.15., speaks of a brahma-siltra and vedanta-krt.
    sop. at. p. 94. "Kanids declaree that the soul is not proved by scripture slone, that the body is not compounded of three or five elements. and his use of avidya 'rgnoranoe', and pratyagatman 'miviviual self' is remmiscent of the Brahme Sibtra ".-The termmology and the doctrines mentaoned may well be earlier than the Vedanta Sitica.

[^7]:    ${ }^{1}$ Quoted by Vidyibhupana in his Nydya Sitra of Gotama, p xv. The reference is Mahäbharata, sabhäparva, adhyäya 5 (ii v. 5) The same pasasge has a reforence to the Romans, whych suggests a late date
    ${ }^{2}$ Vidysbhfipma citee several other passages from the Mahabharata which refer to a tarkaidstra, tarkavidya, hotuidstra, anvikpiki nydyafikī̃, etc. But in none of these can we be quite sure that the reference is to our Nyaya syitem. The reference msy be to rationalising and scentical methods such as certamly existed in very early times.-Manu in one plece excommunicntian the twice-born aceptio and critic of the pedg who from reliance on 'hetuidsira' deapises fruts and amits and Knllaka Bhaffe explains tbis as a relerence

[^8]:    to Cdirvaka and other aceptics (Mann II. 11). In other places he insiats on the use of tarka-not conflicting with oeda sid dharmaddsira-as essential (XII. 106), enjoins the study of ävikệk atmavudya on a king (VII 43), and asyb that hattukes tarki should be smong the members of a paruad (XII 11I) None of these passages need refer to the logic of the Nyaya satra. silthough Vātay yans seems to refer to Manusmpti VII 48 when he claims that the
     Arthafästra throws together under the name of anvikq̊iki the Yoga, Sankhya, and Lokdyata.

    ## ${ }^{1} \mathrm{NBh} p 1619$ paramatam apratiptddham anumatam sts hs tantrayuktıh Vidysbhapain, HIL pp 24-88

    'eg prayojana, sarhfaya, nsrnaya, padartha, upamäna, arthapatts, prasanga, ekanta and anekänta, hetvartha, apadofa, uddefa, nodariana, esparyaya.

    Each last gives definition with examples Sufrute's examples are takeen from medicine, Keutulys's from his own fidetra. The lists do not agree in the meanungs attached to the technicalities in all casen. Thas Suirats saye anenc kadravonety apadedah-Yathipadidyate madhurena ne flesma 'bhsvardhate. Ksutulys saye ovam asav aha sty apadesah . and he illustrates it by o quotation onding its Raufilyah. See Suśruta, uitaratantra 65, Carnkn, middhesthdna, 18, Kauţilya arthafastia 15th adhikardna of 1 et adhydyc (Mysore edn. p. 424).

[^9]:    ${ }^{1}$ Vidydbhapaps ${ }^{\text {a }}$ anggestion that it embodies "the princrpal doctrines of Anotkeiki, possibly as propounded by Medhatuth Gantams " has nothing to recommend it (HIL p. 85 Vidy太bhúsapus distinguishes two anthori of Nydya doctrine-Gautama sind Aksapeda-the latter much later than the former). Vidysbhtigans holds that Medhatithi was another name for Gautams (or Gotama). But the only grounds for this assertion would seem to te the mentioz in the Mahatharata (Sintipartan, 885) of a Meshatithir mahdprajfo Gautamas tapasi, and the reference in Bhasa's Pratsmd (p. 59) to a Medhatither Nyäyafastram. There is nothing to show that the Mahabharata gago had any connection with the legendary founder of the $N y a_{y a}$. and Bhias's reference, according to Barnett (Builetsn of the Londim School of Orental Studses, 1924, p. BY0) is to a late Manubhägy by an author named Medhatith. See also F. W. Thomes in JRAS, 1925, p. 107.
    ${ }^{\text {a }}$ See note 1 to page 8, above. Yoga cannot mesn Vatseqika here, seoing that Vaufeqika is separately mentioned.-There seems to be no reason to tatice nits in eny other than the usual sense of nits-dastrc. Sitmkhya and yoga here may have the wider algnificance which Edgerton would grve to the terms see note 2 to page 8 , sbove. The passage would then refer to the doctrine of salvation by knowledge, the doctrine of salvation by works, the solance of government, and the Vesiepika philoeophy. That is, of the philosophical syatems as woe now have them, it relers to one only. This supports the niew above maggested as to the priarity of the Faisegika to the other (developed) aysterns. If the author of the Milinda-paftha had known the Nylya there would have been enise trace of ita logical method in the work.

[^10]:    ${ }^{1}$ Keth, ILA, pp. 10-11
    ${ }^{\text {Kenth}}$ in $I L A X$ pp. 18-14 speaks of these as terms " which later in Gsutams's logic sre technical terms, but which at this period have their more general sense'. but in his Buddhut Philasophy Pp. 303-1 he pritee in this connection "we mby suppose a contemporary logeo, but nothing of it is aedd ". Fidyabhusapa, HilL pp 281-240, gives a sample of the Rathdiatthw method of disputation in connection with which these terms are used.-The Kathdvatthw has been tranglatod under the title Pointe of Oontrovercy (Pall Text Society, 1915 . edited in the aame series of publications, 1894-7), and a note on its ' logic ' by Anng is contributed to the preface.

[^11]:    It $1 s$ worth whale to point ont that the number of the phases in a nigraha corresponds to the number of members in the Nasydyska syllogism, and that the upanaya-phase and nigamana-phase in the nigraha sre frurth and fifth phases, just ss the upanaya and nagamana are fourth and fifth members of the syllogism
    ${ }^{2}$ In virtue of iti method the Kathdeatthu is insufferably tedious
    ${ }^{4}$ Vidyableataps, HIL pp. 168-167
    ${ }^{4}$ The dato clamed by late Buddhist tradition for the Kathovatthu
    ${ }^{5}$ It is of courge a true observetion of Locke lhat God $\vec{i} \mathrm{~d}$ rct nake men barely two-legged snmals and lesve it to Aristotle (or Akgspsda) to make them ritionsi. Children and savages reason as well se logncisns on mstters that concern them But to do a thing is not to know how it is done Aristotle and Aksspade showed how ressoning 18 done; thereby teaching, not indeed how to reason, but how to argue. The syllogism is not the universal form of reasoning • but it is the nniversal form of argument and its formulatron marks the transition from a pre-logical to a logical method of argument. In other words it marks the transition from s stage of culture in which people can talk rrrelevantly to a stage in which urrelevance is not tolerated Early argument is maredibly frrelevant and tantologone.

[^12]:    ${ }^{1}$ It might be suggested that s vernacular aectarisn hileratore like the Buddbist Päli Canon wes in fact provincial and representative of a lower atratum of contemporary culture.
    ${ }^{2}$ Other terms in the Kathdipatthu which are signuficant are: lakjana yuktikathid (discussion besed on argument from the marks or properties of the thing) ; oacanafodhana (clearing up the statament, which conniders the extension of the subject in relation to its predicate '-HIL p. 2s8), duddhskasaindyandana, snd upamdsainíyandana (simple comperinon and analogica! comparison?) See KV I 1129 and 137, H1L 297 and 238
    'e.g. the use of sadhyasama in $M K$ IV 8-9. I am not sure whether the term in used here as the $N y a ̄ y a$ sütra uses 1t. The Känkds are difficult to interpret and demand intensive study. But that it is a genusnaly logioal conception is certam.
    ${ }^{4} \mathrm{U}_{1}, V P, \mathrm{p} 49$, Kumilrajiva went to China in $401 \Delta \mathrm{D}$ and was the earlegt translator into Chneese of the worke of Nagarians, Aryadeva, and others. He wes the chief trauslator of the worts of the Sinnyavdda (U1, $V P$, p. 8 f. 8, and p. 48 n. 1).

[^13]:    ${ }^{2}$ Kerth, BP, p. 829.
    ${ }^{2}$ The differences of opinion an to the chronology of the PEL Buddhast Canon are such that it is almont useless to base any argument upon 12. The date 900 в $0 \quad 15$ on the assumption that the form of the Kathdeatthu 18 representative of Aifokan culture.
    ${ }^{2}$ VP. 88-88 His argoment (pp. 18-88) connecting the origms of the Vatiequike with earliar apeculations-they can hardly be called philo-sophise-is enggestive, Some of these ' lost philosophies' ( $\quad 0$ to speak) were probably fathered by Brahmanie tradition on the Lokäyata or Caredka achool and nome of them are possibly to be found in the strange assortment of doctrines reviewed in the first ahnike of the fourth adhyaya of the Nyäyasintra. See Gopancthe Kaviraj's introduction to Jhi's transletion of the Nydya, 8-12.
    ${ }^{4}$ In this Ui follows Oldenberg and Jeoobi. Kerth objects that the Kewtiliye is probably a work of several centuries sfter Christ.-IIven so, it closriy embodies moch older matter, and this definition of onvikgiks is a cace in point. Yoga here might mean Vasieqika. See p. 3 n. 1, alove.

    The Jainas sey that Rohagutia, the chief whimastic, is m fact the lounder of the Vaifepika system.

[^14]:    ${ }^{1}$ Thare is no trace of logicel canceptions, as the Nybya nuderstands logic, in the Molindepanthe. We msy infer from it that at the tume when the buik of that work wis written logic dud not yot exist in Indis.
    ${ }^{2}$ Soe Ui, VP, pp. 29.28 and his footnote 2 to p. 28 . One of the early upeculators, Befjeya Yelatthi-patts sayi: " If you esk me whather there it enothor world-well, if I thought there were, I should sey mo. But I don't mey to And I don't thme it is thus or than. And I don't think it it otharwise. And I don't deny st." (elted by U2, loo. out., from SBB wol. मi, p. 71).

[^15]:    ${ }^{1}$ Kelth, BP, p. 280 " We need not, of conrse, take sermously the concoption of Nagarjuns as the creator of the Sinyavāda philosophy " Therefore references to the Sunyavada in the Nyayasiltra are not necessarily referonces to Niglryana unless the phrases in NS which are parsllel to phrases in MK first orignated with N区garjuns. It is possible to regard them as 'tags ' which sre repested by Nigiriona from earher Sunyavdda writers: in which case Vidyabhüsaps's argument for the priority of Nagaryuna to the NS passages in question, and Jacobi's assumption that the date of NEgarjuna givea the earliest lumat for the composition of the Nydyariltra, fall to the ground Nagaryuns in his Dafabhimsvibhdidifdstra refers to the Sdihkhya, Yoga, and Fardegika : but it is hardly safe to infer from this that the Nyayc as a aystem had not yet originated-for Fasieqika doctrinee are so sumilar to Nydys that separate mention of the lator may have been felt to be unnecescary. The queatiou of the relation of Nagarjuna to the Nyajya (s) as a syatem (b) wh the present siltra, must, it would moem, be ieft open stid

[^16]:    ${ }^{1}$ E. Windisch aber dat Nyayabhdiqya, Lerperg, 1888.

[^17]:    ${ }^{1}$ The objector is a Madhyamika, and he is arguing that the very notion of proof involves self-contradiction He puts forward a dilemma based on the three poasible time-relations between pramana (means of apprehension =upalabdhihetu) and prameya (spprehended object=upalabdhsospaya) If perception 18 supposed to exist before the percept, then perception cannot arise rom contact with its object-for the object does not vet exist if after, then the supposed antecedent object cannot be identified with the percept-s percept being thst which ss being perceived if simultaneously, then we ought not to get succesaive apprehensions of the colour, scent, taste, etc of the objectsince these are supposed to co-exist at one and the same tume in the object f.c. there should not be a subjective order of presentstions different from the objective order of existences )-Suitra 8 states the general nature of the
     11, state the three brancheg of this dilemms.

    Vicaspata Míres sttributes the dislectic to the Madhyamika at NVT p. 2611.1 and p. 2491.8 . In the latter passage he gives an exposition of the Madhyamsks poaition, which is cited by Ponsenn in note to p. 57 of his odition of the Madhyamike Kdrike Poussin essas. "l'attitude des phaloscphre Bouddhrques eat expliqués avec prbcunon ".

[^18]:    ${ }^{1}$ Susil, Introdusione allo atudro della filosophsa Indiana (Pavis, 1913), p. 424. Cited by Feddegon, Vasfeq̧ika Phslosophy (Amsterdam 1918) p 16.
    ${ }^{3}$ Sual, $p$ 81, cited by Faddegon, $p 605$ Bodas argued thet Prakastspeds was earlier than Vasteyayana, on the ground that the listter cites VS I 1. 4, and that thas sutra is lster than Prsaastapada But this is arbitrary. Feddegon's essmmption that VS II. 11 22, which Práestapide cites, was interpolated from Nyäya-bhąqya p. 34 I. 10 is equally arbitrary, and cannot te cas od s " fecisive srgument for Sasli's orínion ". But it seams cortam that Vitaybyans was earher than Pradestapide
    ${ }^{4}$ Dinntge refers to and criticises viewa very like Prosastaplds's. See Vidyibhtieqapa HIL p. 279; fragment B of DinnEga; Stcherbataky, Musion, v 170-171, cited by Keith ILA p. 97 footnote, who remarks "That Prafastapesds had predecessors is obvious, and it is from one of these doabtless that DinnEga borrows the pessages ". The admisaion that Prainatapllis had predecessors weskens Stcherbataky's argument (1909) that Prasastapide took his logic from Dinnage - it is possible that both he and Dionaga derived therr common doctrines from these supposed Vaifesika predecessons of Prelestapide.
    ${ }^{4}$ e.g Prainstapidats exposition of the notion of sumanyato difta finference seems clearly to belong to a later phase of logical thought than Vitaylyana's. The amme is true of his formulation of syllogism.

[^19]:    ${ }^{1}$ A pasnage in which Uddyotakara seems to contrast Prasastapeda's trestment of the topic of pratifulbhi*a with the Bauddhs trestment of $1 t$, to the sdvantege of the former He says that 'sound is inandible' is not a proper example of Proposition contradicted by Perception, whereas 'fire is not hot, se a proper example and agsin that a statement, on the part of a Vatiepika, that sound is eternsl, 18 not a proper exsmple of Proposition contrandicting Authonity; whereas the atatement 'a Brahruan should drink spirit' is a proper exsmple Now the two examples which be says are wrong are those given in the $N_{y}$ dyapraveda (see Vidyabhiņana, HIL p 290-291), and the two examples which he ssys sre right, sre those grven by Práastapeds PBh p. 284). NV p 117, on NS I 188
    "See Keith ILA p 26 " He is clearly referred to both in connection whth the atomic theory and logical doctrine by Uddyotakara" Keath cates in support Jacobi, Encyel of Rel. and Eth, I 201, and Ind Log 484.-U1, p. 17 n 4 , gives the following hat of parsilel pasbages -

    NV'p. 288 and $P B h$ p 288 (on sound)
    NV pp. 819-890 and PBh pp 11, 811 (samanya)
    NV p 820 and $P B h$ pp. 14, 884 (samavaya).
    NV p. 488 PBh p 48 (frşta)
    NV p. 417 and $P B h$ pp $108-107$ (rīpddind̄h $p \overline{\mathrm{a} h a j o t p a t t ı} h$ )
    *For instance, NV pp 818-822 on NS 11 il 61 is a defence of Prásstapads's doctrine of ndmãnya As exmples of detailed correspondence compare $-\bar{V}$

    NV p. 818 l. 3 spapiqaye sarvatia partata its sarvagatety weyate.
    PRh p. 811 J. 18 spavigayasarvagatam
    NV p. 8191 § kva punar gotvam vartate? yatra gotvantmitto 'nuvpttapratyayo vartate
    PBh p. 811116 anuorttiprat 16 yakdranam.
    NV p. 319 1. 18 yathd vastracarmakambalequ nillapratyayah.
    PBh. p. 311120 yathd parasparap1́siptequ carmapastrakambalddeqv ckasman niladravydbhrambandhan willah nilam tis prateray

[^20]:    ${ }^{1}$ NBh p. 888 1. 6- Yad vdam bhaoãn buddhir derutya buddhivreayd santit: manyate, muthyd buddhaya etah - "As for your (the Nasydyika's) reliance on thought, snd your (consequent) statement that the objects of thought exist,-the answer in that these thoughts are illusory ". Stcherbataky however muresds bhdvan for bhavan in the flrst clanee, and tranalates. Wonn aber du da glaubat dase es Objocto auch dann wirklich gibt wenn man an dom Grundeats festhalt dass alles Exsetiorende (bhavan) blosse Vorstellung (buddhir) rat, so (sat dis ontgegensuhalton dact) diese (derne Voratsllungen) falsche Vorstellungen sesn wirdon ". (op. ort. p. 968)

    IIven if bhdodn were the corroct rosding this sppears to be, linganstically, a very improbable intarpretation of ohs-dn budihir diritya. I do not belueve that there is any reference to an ideuluat here,-in spite of Vicmepetj Mifis.

[^21]:    ${ }^{1}$ Steherbstsky, German Transl., p. 985 The referance 18 to $P B h$ P 287 . Hsving now come to regserd Pratastapide as an original thinker, heinclinee to the view that his logic sliso is not a borrowed thing
    ${ }^{3}$ On the Date of Vasubandhs, JRAOS 1805 ; and Bullotin de l'scoteFrancawe de l'Extreme-Orient, 1904, p 87.
    'Bullotin de l'Bcole Prançase de l'Extrome-Orient, 1911, pp. 899 年.
    ${ }^{4}$ Early History of Imdia, grd odn., pp. 898-83t.
    ${ }^{4}$ Buddhat Phelosophy, pp. 156-6.

[^22]:    ${ }^{1}$ Buddhist Epustemology and Logic, German tranalation, note 420, p. 289. See also Central Conception of Buddlusm, 1923 , p 2, note 2, where Stcherbatsky writes, " That there were two Vasubandhus is not ${ }^{\text {a }}$ guess with no solid basis ' the Koda actually quotes the opinions of a vrddhdcarya Vabubandhu and rejecte them ( 18 , Tibetan text $p 89$. .cl. Yasomitas's comment)' Keith, loc cet, says that Yasomitra's comment can be read to mean thst the suthor of the Abhidarmakofa refers to Vasubandhn, brother of Asangs, but that this suggestion is on the whole implausible Stcherbataky goes on "There remain the dates of the Chmese translations of Asanga and Vasubsndhu, which slone, if correct, would be sufficient evidence to assign them to the fourth century Otherwise one feels inclined to bring Vasubandhu nearar to Dinnaga, whose teacher he was " According to Takakusu all the works certainly sttributsble to Vasubandhu were translated into Chinese between 508 and 569 There is a fatasdatratika translated in 404, which is of doubtful suthorship. Stcherbstaky appears to ssengn this to the Vasubandhu for whom he accepts as the moat probsble date that assugned by Takakusu i.e. 420-600 That is why he suggeests a doubt an to the accuracy of the Chinese statement that it was translated in 404 (if I understand him aright). Péri's ergument rests partly on this, but not entrrely.

    The Vasubandhn with whom we are concerned is the logician referred to by Dddyotakara, and the author of the Tarkafistra asaigned to 'Vasubandha '. He was traditionslly the teacher of Dinnaga

[^23]:    ${ }^{1}$ Fitzedward Hall's edn $P 285$ See note 8.
     kavindm agalad darpo nanam Vasavadattayd.
    "Nydyasthitsm nooddyotakarasvaripdm
    "Vidy太bhägans says " It was very probably this route by which Huen-thsang reached Graghna A.D $635^{\circ}$
    "Bee the introductory stanzs to NV, snd NVT's comment thereon
    ${ }^{6}$ Vidyabhipans, $H$ I.L. p. 124 . Kerth, I. L. A., p. 28. JRAS 1915 pp. 601-606 and 1102-3.
    ${ }^{7} N V$ p. 121 I. q, p 120 1. 6-7. See also p. 156 1. 17 with Jhis' emendat'on "and p. 169 1. 8, where the "granthakdre " and "bhdpyakdre"

[^24]:    may refer to the author of the eädavillu and the suthor of the vadavidhdnatika See Fragments from Dinniga, pp 26-28
    ${ }^{2}$ Seee Fragmente from Dinindga, Fragment A, p 8, NVT p 102117. 'Ui's conclusion, VP pp. 17-18. Tradition says that when Dharmakirti was converted to Buddhism he was sdmitted into the priesthood by Dharmapala If this in reliable, and if Ui's date for Dharmaps̄la is correct, VI., 639-570 (VP. p. 10 n. 4), then Dhermakirth would be earlher than Odayotakara But Thbetan tradition is different as to Dharmapala's date, and Vidytbhupans places hum c. 685 A.D.
    ${ }^{1} H$. I. L. p. 124, citing NB chap. III pp 110-111. Also H. I L. p. 806, cating K. B. Pathsk's Bhartrharn and Kumdrula in J. B. B. R. A B. 1882 vol. xvih p. 229,-"escording to the Jaina Slokavdrtika Dddyotakma is attecked-by Dharmakirti'.

[^25]:    ${ }^{2}$ The Nyayabenduţika by Dharmottara, edited in the Bibl. Ind. edn. of the Nyäyabirdu, P Peterson slso a fippani edited in the Bibl Buddh., St. Petersburg, 1909. Peterson, who dıscovered and published the Nyäya bindu in 1889, dud not know that Dharmakirti was its suthor This was established by Pathak in JBRAS 1894, vol. xvil p. 88 ff and $p_{\mathrm{p}} 218 \mathrm{ff} \mathrm{Cf}$ Jacob in JRAOS 1905 pp 361-8 Vidyळbhugang identifies its Tibetan ver (10n, H. J. L. p. 809
     dustara-kunsbardha-pankamagndndim Uddyotakaragavinam atyaratindsh sa muddharanat-"I look for some ment from rescuing tho aged doctrines of Uddyotakare from the treacherous swamp of bad commentaries in which they were sunk'. Udayans in NVTP p. 9 makes an objector say that the tradition (sampraddya) was broken after Uddyotakara, and that therefore Vicaspati's comment cennot clam to be a good comment-sumbandha-as opposed to these bad commentaries-kumbandha. Vicaspati 18 made to reply that the elivir of the teaching reoesved from his preceptor Trilocans hss restored the youth of the tradition. Trelooanaguroh sakdsad upadefarasāyanam asdistam amiedm punarnaplbhatodya diyate. This is a clear indication that there was an unoasy consoiousnees of s break in the contimuity of the temching of the achool aftar Iddyotakara.

[^26]:    ${ }^{1}$ Karma M7mAhta, p 7. The pencage in Sabars is dealt with infra in the chapter on Perception

[^27]:    ${ }^{1}$ Kesth, Karma Mimánsa pp 9-10, snd note 2 to p 9 Ganiggnathe Jha pubished an acconnt of the doctrines of the school in his Prdbhakara School of Pürva Mimäqisā, Indısn Thought, vol II, 1910 (Allehabsd), which still remains (I beheve) the sole sonrce of knowledge of that school. The Bfhati itself follows on a Vartika (not that of Kumarils) which Dr Jha regards as the source of the Prabhaikara achool. Dr Jhä argues that Prabhakars is earlier than Kumärila and rejects the tradition which makes the former a pupy of the latter PSPM pp 10-17 Bot the question has been re-opened by K S Rāmaswāny Sastry suromapı m his papers on Kumdrile and the Bfhatţikā, and on Forgotten Karkkās of Kumärtla, read before the Thurd Oriental Conference (Madras, 1984) and the Fourth Oriental Conference (Allahabad, 1926)

    Further examination of the Brhati on Adhydya I pada 1 would certanly throw fresh light on the development of logical conceptions A MS of the Bfhati is in possersion of the Bengal Roysl Abistic Socisty. It is not clear from Dr Jha's sccount how much of the doctrine is to be found in the Brhati itself, and how much in the commentstors on it.
    'See Pathak's Kumdrila and Bhartrharr, in JBRAS vol xvui, 1892, p 218 If. The reference is Kumarila's Tantraedrtaka I. 1. 8
    ${ }^{\text {and }}$ Pathak notes the citation by Suresvars in his Taulsriyavdrtike (Knandárama odn. p. 5) of a couplet from Slokavätrke, the section called sambandhakęspaparihdira, verse 110 (Csnkh edn. p. 671). Sureivara is commenting on a passage in Samkara's Tasttsriyabhisya which appoars to paraphrase the conplet from Kumārils Pathsk asys that Sarikars also referi
    

[^28]:    ${ }^{2}$ Gaingadhars Bastri notes seven quotations from the B'okavartska and two from the Tantravirtska in his edition of the NVT Faddegon (Vati. Bystom, P 601) fdentifies in Sridhara's Nyayakandall twelve quotstions Broa the Slokavartika and three from the Tantraddrtika.

[^29]:    ${ }^{1}$ At the end of the Lakpandvalt tarkambarankapramitęp atitesu sakantatah oarsequdayanai cahre subodhdin Lakzañ̈valim
    This is cited by Gangadhars Bdetri in his preface to $N V T$, together with the couplet from the $N y d y a s u c_{c i n b a n d h a ~}^{H e}$ argues convincmgly that Udsyans's prelıminary movocation proves that Vicaspati was much earher than Udsyana, and concludes that Vacaspati's 898 must refer to the Vikrams ers, and so be read as 841 AD He does not mention the tradition that the rojavartska mentioned by Vacaspati in the Satrikhyatattoakaumudr, was written by Bhojs Rajs (1018-1060),-presumably ignoring it as worthless It must certainly be disregarded in face of his argument
    ${ }^{3}$ Keth, ILA, pp 29-30 Woods, YS, pp $\times \mathrm{m}$-xxin,
    
    ${ }^{4}$ dthmãtram atra darfitam, prapaficas Tattvasamikpdyām asmübhis Uftah NVT p 57 l. 28 . The doctrine here referred to $s 8$ expounded at length in the Tattoasamikpd is the theory of error in its five possible forms. This passage of the NVT is translated here, infra, chapter I section 8 .
    ${ }^{\text {istated }}$ by Gaigidhara Sbstri, in the brief bnt very valuable prefice slready referred to.

[^30]:    ${ }^{1}$ The Nyāyakavika with the Vidhiviveka was $198 u e d$ ss a reprint from The Pandst, Bensres, 1907. (The Pandst, XXV-XXVII, 1903-1906). the Tattvabindu ammlarly, 1892 (editor, Gangadhars SEstri Tailangs). The Tattvasamikpă, во far as I know, hes not been publiahod NVT in Viz Skt. Beries, 1898 The Sowhhyatattvakaumudi, Benses, 1889. The Tattvavasdirady, Bombsy Bkt Beries 1892 The Bhämatl, Bibl Ind., 1880.

    The Nydyasitroddhira, whioh 18 another recension or "edition' of the Nyajuasatras, 18 attributed by Keith (ILA p. 29) and Woods (Y.S., p. xit n.) to our Vscaspeti Myirs But Vidylbhuqaps ( $\boldsymbol{H} I L, \mathrm{p} .460$ ) sttributes it to the much later writer of that name who lived sbout 1450 AD This would dispose of the conclusion drawn from the colorbon of this work that out TEoaspati Miśrs was a native of Mithils

[^31]:    ${ }^{1}$ See the note on Trilocana, infra (footnote 1 p 106)

[^32]:    ${ }^{1} G$ E Moore in MIND n B., vol xili, 1904 Reprinted in his Philosophreal Studies, London, 1922
    ${ }^{3}$ The terms objectivist and subjectivist would be prefersble, if wo sould depart from the secepted opposition of reslist snd idealist. At any Fate I mean by 'ideshat' snbjectivist.

    There will of course be no distinction between truth and error for the idealist, that error sleo is impossible for him

[^33]:    ${ }^{1}$ P. 96 infra
    ${ }^{1}$ As Alexander candidly admats Space, Time and Desty, vol it $h_{1}$ p. 199, "I annot belp admitting bow much sampler it would be and how urach labonous explanation it would asve if only it were trae that oes inturtions snd sensetions were mental ss is commonly supposed ".
    ${ }^{4}$ P. 69 infra-odadarem blhyatayd 'lambanto vibhramak.

[^34]:    ${ }^{1}$ Known collectively as the tranitri-see colophon at p. 11 of NBh But according to Vacaspati Miśra's division of the süstra in his Nyäyasürinvbandha, the first two satras form pne prakarana or section, while the thurd belongs to the second prakarana (consisting of sittras 8-8 and dealing with the topic of the definition of the pramänas)
    ${ }^{3}$ Enumersted in this acitra as -instruments of knowledge; objects of knowledge, doubt, motive, example, eatablished tenet, members of the syllogism, indirect ressoning (reductio ad impossibile), cartatude; discussion; disputation, eristic, fallacious middle terms, equivocation; sophistical refutataons, occssions of rebuke 1 e of defest in srgument.

    These are in no sense 'categories ', but rather a list of the contents of the Aastra The Naituayska of course does not suppose that a knowledge of the logicsl notions, which form fifteen out of these sixteen 'categories, constitutes the sonl's salvation but he is convinced that bad logic will incur damnation The knowledge that constitutes aslvation is knowledge of certain topics that fall under the category of 'objects of knowledge', notably the topic of the nature of the sonl. The other fifteen categories constitute the equipment for getting and guarding right knowledge of this So Vátaybyans says ätmadeh khalu prameyasga tattvajnandn nehdreyasddhtgamah-the attamment of the highest good results from knowledge of the true reality of such objects of knowledge as the soul (NBh. p 8116 on NS I. 1. 1) And he clams that the nydyadastra is the anvikeiky oudyä traditionslly spoken of as fourth among the branches of knowledge-(a) the three vedas (b) the science of wealth (c) politics, or the art of kingship (d) andikgiki ordya' (NBh p 8 II. 5-6) Without its trestment of the logical categories theNydyadistra would be just like the Upanizads 1 e it would be knowledge of the true self (adhyđtmapdydmdtram syan sydd yathopanagadab) The Nydya is therefore a syatem of spplied logic : and its application is to the ontological problem of the soul.

    VItsyayan is aware that the sixteen topica involve a cross-division of. the mecond "ontegory" meludea all the rest. This is no objection in a liat of contents
    ${ }^{3}$ These constitute samusära, the cycle of existence. NBh p. B 1. $1^{n}$ ta uno msthyafianndayo dubkhdnta dharmä avichedenaiva pravartamAnslo samsära stt. Only right knowledge can make a break (orocheda) in the vicuous carcle of being.

[^35]:    ${ }^{2}$ This is not a rendering, but a symbol, for upamana, the meaning of

[^36]:    ${ }^{1}$ The commentators are unanmous that these sre not sitras Vacaspati Miśre calls them bhösyasya vãkyam, which seems to umply that he attributed them to Väteyayans There are other passages of the Bhāpya in which sumlar vdkyas are found, and in certan cases there was difference of opimion as to whether they were siltras or not The editor of the Vizianagram Skt Series tert, Mm Gangadhara Sästrī, prints them in special type, in deference to the opinion of western scholsrs (pascätyandm matena) who "argue that someone wrote a värtilica between the tume of the alitra and thab of the bhisya just as in the case of the Pänmosn grammar Kabyajana came between the tame of the suitic and thst of the bhasja; and thsi these sentences are citations irom this odiriska" proface p 8 The reference 18 to the view put forward by Wmdisch, Uebar Das Nyäyabhaqya (Leppeıg, 1887). Mm. Gangidhara BEatrI disagrees with this view, citing the definition of a bhdsya es a work in which "the meaning of the silitra is explaned in words following ( 1 e. closely corresponding to) the saitrc, and its own (1.e. the bhapya's) words are then explaned ', Innumerable passages could bs cuted not only from the bhäqya of Vatisyayana, but also from the work of Praslatapdis (which is not s bhapyg in the ordingry sease) and from the Vartska of Uddyotakars, in which the writer first gives an aphoristic statement and then proceeds to explain it. It seems to me that thrs may have been a mannerism of the earlier philosophical writers But see ebove, p. 28.
    ${ }^{9}$ Gee below, p 54

[^37]:    ${ }^{1}$ Strictly ppeaking, prama is knowledge, and the instrumental noun pramäna signifies the instrament of knowledge-pramiyate anena, or, pramakaranam pramạ̃am Sumilarly anumäna, вs the instrument of inference (anmmiyate anena), is opposed to anumith, mference as a resultant and upamana (upamiyate anena) to upamitt But these distinctions, though drawn by Vátayägana himself were not slways rigidly observed by him
    ${ }^{3}$ That 18, the validity of knowledge is known by a subsequent inference Tarkabhäṣa $P 941$ phanam ht mänaapapratyahgenaiva grhyate, prämānyam punar anumānena-ihe cognition, as such, 18 spprehended by inner-sense perception but the valdity of the cognition 18 spprehended by inference The question as to how the valudity of cognitions is graspel ${ }_{18}$ quite distunct from the question how we are aware of our cognitions The MTmärhsaka demes mner-sense perception of cogmitions, which is the Naryayska view stated in the first half of the sentence here cited from the Tarkabhapd It is the other question, that of the way in which we apprehend the valudity of cognitions, that we are now concerned with

    The Sämkhyae held that both validity and invalidity of cognitions sre apprehended from the cognition itself (soatal) the Naivdivikas held that both are apprehended from somothing other than the cognition (paratah) the Mimãhsahas held that the velidity of a cognition is apprehended from the cognition itaelf, while its invalidity is spprehended from something else ( 1 e from lesrning of some defect, dosa, which invalidates the cognition Truth needs no criterion but error doee) See SDS, chapter on the Jaiminitya-dardana, p. 218 =p 196 in Cowell and Gough and note 1 p 68 Of. slso the Nydyapradipa commentary to the Tarakabhą̣c, p. 88, and Ganganath Tha's discussion of thes topic in the Sadho Lal Lectures on Nyaya (pp. 85-50) Thibant's admirable transletion (in Indran Thought vol. II, 1010, pp 28-99) of the pasage in the Slokavätika which deals with thus topic, vis. codandsatra varsee 21 ff , is ilhminating (The tranglation was not continued, and remains a mere fragment But the whole of the Slokapartika has been tranalsted by Gangeñaths Jhi, Biblotheca Indica, Calcutta, 1808.

[^38]:    ${ }^{1}$ Thibaut's translation of verse 34 The some' referred to are the Samkhycs, the 'others' are the Natyayikes, see preceding note.

[^39]:    ${ }^{1}$ Thibaut's translation of verse 88 This is the Bauddha vien, as appears from the couplets cited in SDS and referred to in note 1, p 50 In my text the proper order of the lines is inverted Cowell's translation implies the following, which must be the right order -
    pramanatvapramiṇatve svatah samikhyāh samäéritah, natydyikdes te paratah, saugatāt caramam svatah, prathamaik paratah prähuh prămānyam. vedavädınah, pramdpatoath svatah prähth, parataśs cäpramänatam.
    "The Samikhyas hold that both vehdity and invahdity are intrinasc the Nasyayikes that both these are extringic the Bauddhas soy that the latter 18 intrinsic, while the former-validity-is extrinsic the followers of the Veda (ie the Mimämeakas) say that velldity is intrinsic and invalidity extrinsic ".
    ${ }^{3}$ The MTmashsaka new is that the Veda has no suthor, human or divine, but exists from eternity. It 18 this doctrine that provides the motive for the charecteristic Mimdheaka tenet of the eternity of sonnd (sabda), which was a principsl battleground of the early schools. Mimähsaka tenets are often theological dogmas generalised inta phllosophical theorien

[^40]:    ${ }^{1}$ Thibsut's translation of verse 46,-tataf ca puruşabhäoat, sats oc fuddhyasambhavat, nsrmalatvăt pramānatvath codandyăh na yuyyate
    ${ }^{3}$ na hi soato 'satI saktib kartum anyena sakyate. Verse 47.
    ${ }^{\text {TThibaut's }}$ translation of verses 49-51. Both arguments cerrv weight, tbough they do not prove just what Kumsrila seems to have thought they proved viz that any indrvidual cognition can clam soatah pramanya, self-evndence What they do indicste is that it is useless, and in fact meaningless, to look for a criterion of knowledge ontside knowledge . or for a eriterion of a partienlar cognition outaide the particular system to which it belongs. As to the regreasus ad snfintism, this is a practsoal difficulty to Which the Mimdisaka view is as liable as any other. For there is always the doabt as to whether 'defects, aro present and it is not really disposed of by sayng that knowlodge is self-evident: for st self-evidence which only lasta until it is displeced by an equally self-evident contradictory cognition, is no guarantee of truth

[^41]:    ${ }^{2}$ In NS II. 11. 7-12. The topic is deelt with below, p. 828 ff .

[^42]:    ${ }^{1} N V$ p. 10 l .5 ff
    ${ }^{1} N V T$ p. 58 I .1 ff, in his comment on the second suitra t the topic being the nature of error. He is dealing st thas point with a false negatire existentia' iudgment e.z the assertion that the sonl does not exist.

[^43]:     Aropayants

    The whole passage is difficult to interpret, and particularly the phrase asambandhdgrahena pitacrabilvaducdmänädhikaranyena sūrūpydt, snd the corresponding phrase sambandhagrahamaripyat tsktansmbasamanddhikurapyona. [The first instrumental case is the matrumental expressing the mesns, while the second is the nastrumental governed by words expressing resemblance: the meaning being "resemblance to real cases of residence of a quality in a thing, such resemblance being prodnced by our fallure to see that in the case in question there is not any connection between the property and the thuig to which it is attributed "] In the second phrase it seems necessary to read anambandhagraha-, in place of the sambandhagraha of the text.

[^44]:    ${ }^{2}$ atıfighrataya caspa kramo na lakধyate NVT p 521.24
    *evam detcandradinmohaldatacakrddupv apt kathamesd sarimpam oltu niyam $p$ 58, last line. The illusion of the aldatacakra has had a notable history in Indisn philosophy The Buddhist uses it to illuatrate the allusory character of experience-see Lañkdvatara I. 41, X 176 and 448. It is borrowed, in the use, by the Gaudapadiyakdrika see Dasgupta, Hutory of Indian Phalosophy. p 488, and Faddegon, Vareeqika Systom, p 65. In the Nyayasilta, III. is 61, the illustration is used in a differant way, to support the contentron thet cognitions cannot be simultaneous-where they seem simultaneous, it is really a case of rapid anccession, producing the illusion of simultaneity-like the whirling firebrand.

[^45]:    ${ }^{1} N V$ p. 261 4, kah punar ayam otparyayah? cp. PBh p 199, 113
    ${ }^{2} N V T$ p 58 last line, if See Keith ILA, p 48 ff, and Ganginatha Jhe's Sadho Lal Lectures, chapter III, p 51 II.
    ssodkäram bähyatvavı̨ayåh jnänàh esparyayah. The thought le awkwardly phrased here much more clearly below, p 541.8 , sedkdrath bähyatayă 'lambante otbhramdh,-''illasions are grounded in a presentstion under the gume of externality '. Ideas 'in the mind ' are mistaken for thing 'without the mind'. As regards the rendering 'presentation' for sodkdra (1.e. jhandkdra), literally 'knowledge-form' . some such rendering as 'presentation', or 'content of cognition', seems nevitable. The thought onderlying the term akära is that thought itself assames certain shapes or forms. Some hold that these shapes correspond to axternal roals (reahats), othors that they constitute the objecta (ideelists). others again deny that thought has any 'shapes' (nurdkdra. Cf. the passage in Sabarabhdyya translated below, chapter II section 5, p 144) These three neww we ahould express by saying that presentations or idess correspond to objectis; that presentations or idesn art objects; and that there are no idens or presentations (Locke; Berkeley or Hume, and Beid).

[^46]:    ${ }^{\text {r }}$ Reading, ox conf, asya atannspedhah for the textasl asyatannt podhab. asydh, in thas conjectural reeding, will stand for jnanalkaratayab. The meaning amply 18 that though the ideal chsracter of the object does not emerge when expersence does not contradict our judgments, it comes out clearly enough in a false judgment aubsequently contradicted by experience.

[^47]:    'antaratpam anupalabdhacaram kutaxtyam, i.e the Bauddha deahat admits that in the primary experience silver presents itself bähyatayä-a something ' without the mind. There has then been no experience of uliver as only an sdea How then are we to infer, from the contradictory experience, an internahty or ideality of silver' such as we have never experienced?

    In the commencernent of this argument Vgcaspati has sard (p. 54, 1, 4) that the ideality of 'silver' etc 18 established either from the experience itself or as the result of inference (fnänäkăratvath ratatader anubhavdd vyavasthyäpyate anumãnäd vā The text hes anubhd̄väd) Having first shown that ideality is not given in the experience itaelf, in the present sentence he diaposes of the auggestion that it may be inferred The nature of the inference is indicated by the phrsase used in the previous sentence-arthaj jnänäkäratāsuddhsh-" the ideality of "silver' ${ }^{18}$ established from smplication" that 18, the process is that which the Mimäthakas call arthäpatt you are forced to suppose that 'silver' is idesl, in the case of an erroncous judgment, becanse there 18 no other way of explaining the facts But neither the Natydyika nor his Bauddha opponent sdmit that arthäpatti is a eeparste unstrument of truth both slike reduce it to syllogistic inference, anumdna And, regarded thus as a syllogism, the 'mference that 'silver' 18 only an ides is certainly open to the objection which Vicsapati brings agsinst it the conclusion introduces a major term (ideality) the connection of which with the middle (contradiction of sctusl presence of 'sliver' etc) has never been experienced in parallel experiences (sapakga) Vacaspati is thus justified, from his own and his opponent's standpoint, in adding na cōnumânam atra prabhavati ( $\mathbf{p}$ 641 15) "inference is of no avsil here"

[^48]:    Nägärjuna's Mädhyamikasûtra I 7 na san nãean na sadasan dharmo neroartate, He tries to keep an equipoise between four alternatives (catuskoti)' is ', ' 18 not ', ' both 18 and 15 not ', ' neither 18 nor 18 not ' See SDS, p. 28 ( $=$ p. 28 in Cowell and Gough's transl) atae tattoanh sadasadtıbhayänubhaya tmakacatuqkotvernirmuktain funyam soa Of Poussin in Musdin, $n$ s. vol. 11. p. 174 note 69. Gough translates: "The ult'mate princuple, then, is a void emancipated from four alternatives, viz, from reality, from unreality, from both (reslity and unreslity), and from neither (reality nor unresinty)". The applicaticn of the medius tutasamus principle in their dalectic 18 perhape a more likely explanation of the name Madhyamika than that offered by the SD8, and rejected by Ponsein loc. oit. p 177 note 68

    We are here concerned with asatkhyats as a theory of error primarily. But it is clear from the SDS that the Bauddha nuhilat, like the Bauddha idesinat, did not-snd could not-distingurh his theory of error from his theory of truth The argument put forward in this pasasge of the SDS to support the formuls saroam finyam-sill is void-1s in fact (like the idealist's argament) an argument from the nsture of erroneous judgmenta It is a prece of dislectic based on the anslysis of negation of complexes (oisisfanigedha). The judgment 'this is sulver' (in the case where nsere 18 actasily present) is admittedly false. But to say that it is false is to negate the comple- conststing of this-ness (idanid, 'hocceity', in Gough) snd snlver-ness But in the case of a oxiftaniqedha, negation of a complex, it is mpossible to deny part without denying the whole (the complex AB no longar exists, st such, if $B$ is denied)-" A semi-effete existence is not admissible No one magues that one half of a fowl may be set aside for cooking and the othar half for lsying, eggs" (Cough). The 'thas' does not anrvive the densal of the 'silver'--because it 28 easentislly a 'this 'rolated to 'silver' .

    The purport seema to be that a aingle false judgment is enough to knock the bottom ont of the umiverse - because error tears sannder what can only take on the guise of resility as a complear. Bat error exinta Ergo, nothing is real
    ${ }^{1}{ }^{2}$ VT, p. 64, 1.16 f.

[^49]:     vı̧̧aya.
    ${ }^{2}$ This is the Vedintan theory avrdya and ansroacantya being technical terms in that system. For a parsillel to these concepts, see Plato, Reep $\nabla \& 77 \Delta$ ff. $A v r d y d$ corresponds to opinion ', $\delta$ ógaa : and its object, thi ansreaca "Iya, corresponds to Plato's 'opinable', סoŋactóv. Tbo object of avidye is nerther expressible ss existent nor ss non-existent vou cannot eay that it 28 , nor can you say that it is not and so it is ansroacaniya.
     oonoeive of them at either being or not bein 3 , as both being and not boing, or as nerther." [This is exactly the Madhyamika's oatuqkofr]. The object of
    
     ávi'yuats, to the ohildren's riddle.

    That there is knahip between the Madhyamika school of Buddhum and the advaitavodin or abeolutist sehool of Vedanta has often been remarked. Vifhlnabhaksu in the Samkhyaprapacanabhdeye (18th century) calls the letter pracohanna-bawddha, 'Buddhuta in disguise',
    ${ }^{2}$ NVT p. 54 , L. 28 atredam alocantyam, etc.

[^50]:    ${ }^{\text {s sataś }}$ an sadantaratmand 'sattedd asadowayam ucuate This alter nstive of course amounts to the Naıyayika or anyathakhyatı theory, as Vicaspati proceede to point ont.
    ${ }^{3}$ atha fuktar cona rajatđ̄tmang 'satitı tadākärataȳ tām Clambamănan mithyajalnam acadalambanam wcyate, $\mathbf{p}$ 55, first live
    "yathdhub anyathdkhyatioddenah tasmad yad anyathd pratipadyata (an mirdlambanam jnilnam aadalambanash ca tad. The ctation is noted by the editor, Gadgadhars SistrI, um the list of unidentufied quotations given in his preface. The quotation look like a atatement of the asatkhyats view

[^51]:    but no doubt it must be read with the qualifications anggested in this passage, i.e. the object is non-existent only in the sense of not being what ik is cognised as being
    ${ }^{1} N V T$ p 55 I. 5-na ea rajatatmana, etc.
    ${ }^{2}$ Bee note 2 p 63.
    ${ }^{2}$ This is no longer theory of erroneons judgments sbont phenomena as contracted with correct knowledge sbout phenomena. but a theory that sll knowledge of phenomens 18, as such, illasion The Naiydjuka't reply to it is that the very notion if error presupposes a criterion (which he calls 'likeness' i.e. the semblance of truth). If sll knowledge is illuaron, there is no truth of which error can be the 'eamblance' : and so there can be no error.

[^52]:    ${ }^{1}$ Cf NK p 180118 sdam rajatam its jfidnarya tuktikalambanam sti hi samordovruddham. yasydm hi samvidt yo 'rtho 'vabhasate sa tasyd alambanam rajatajndne oa rajatam pratibhäti, na duktika That is to say that nacre 28 the ground or object of a cogantion which has nilver for its object contradicts consciousness. The object that appears in conscionsness is the object of that conscionsness And it is sulver, not nacre, that appears in the cognition of silver.

[^53]:    ${ }^{1}$ ripddsvitānam raptdivac cakpurddy apt kăranam sta cakepurdd. yalambanatvaprasaingat. The objection appears to be well taken. For it would drive the defendant to state his theory in the more precise form-- the object is that part of the cause of the cognition whsoh forms the object of the cognetion', and, when so stated, the circle involved in the definition in apparent You define the object as cause,-but you almo deftne the caubo by the object
    ${ }^{2}$ The sense-orgens are pramanas, 1 e pramakarana, instruments of knowledge. How can they be mstruments of error?

[^54]:    ${ }^{*}$ Cp. NK p. 180 1. 16 tadityathdapremopam rajataomarapam.
    ${ }^{1}$ abhedaryavahara.
    stmanddhikarapyavyapadsia. When an sdjective qualifies substantive, it is sand to be acese of samannadhukerapya. So PInmi calla karmadhdrays compound a sambeadhikarapa-tatpurupa, I. i. 49. In a coinpoind moeh ms nalotpala, a blue lotus, both 'blue' and 'lotus ' reter to the amme adhingrate or anbetrate: whopena in the ordinary tatpurupa compound ruch as rdjapwrufa king's man (ofllial), ' King 'and 'man ' refer to difierent mpisitrates.
    ${ }^{3}$ behirnirgeoohennayanarabmoartinal pittadravyasya kitcaryboltisvaooherya pitatean es grhyate pittam tu ne grhyate. The idee in that wis colonr (of some sdjecont object) is seen in a cryitel, so is the yollow bite${ }^{2}$ F ${ }^{\circ}$ seen in the eye-beam.

[^55]:    ${ }^{1}$ Vicmenati brushes this inference sside as 'sublated' by perception badhita, p. ©f, belew.

    HVT p. 66 1. 18 ovanh prapte abhidhiyate, otc.
    "The two slternatives are bhedagraha and abhedagraha.

[^56]:    ${ }^{1}$ The text has purovartspastugrahaparajatajnibndd agrhitabhodam. But it is necessary to read purovartivastugrahamam, ote
    sasts to tha rajatavighinam agfhitabhedam idam iti phinnena The precise reletion of the thought 'this' to the thought ' aulver ' is not indicsted by this ambiguous phrase, which merely asserts thst the former thought ${ }^{15}$ somohow mstrumental to the latter. In the following sentence Vicespati tries to force the opponent to a more precise formulation of this 'instrumental. ty '
    "name rajatavifadnach purovartidravye na vartote puropartyninant os ne rajata its.

[^57]:    ${ }^{2}$ yady soam, tad rajatam iyan suktsr sts bhedidabhdoritjndnavyava hdram aps kasman na pravartayatah? yathavea hi bheddgrahdd abhedajndna sidrfyam, ovam abhedalgrahd bhinneosythenasddryash api

    The argumontum ad homsnom is justifisble, beowne the MImdrhakisa is sppealing to a mere negstive in his akhyati. Mere non-apprehension can do nothing-or if it does snything, there is nothing to prevent it from doing ocerything. "Falure to notice, will be as mach non-apprehenaion of the ane slternative an it 4 , of the other.
    

[^58]:    ${ }^{1}$ tatia yas tava pariharas so 'smakain oyavahbravyapadefayor 6havieyäts.
    "Noted by the editor as an unidentified juptation:
    "masvain, jhạnahetandm afnataripakdryasambandhandm cakfurddindit datfantic, ostanavyavahdripam to abuddhsplirvaklypem apratiteh.

    VEcsspeti teachea that there ape twa kinds of cognition-Dagnityon Thich comes from previous cognition, end cognition which does not. Beppepercoption belonge to the latter costegory. 'Now in the osse of comectpur judg-
     non-apprebanaion of differences' as atipse of the reapltant oognation : for beling oonditioned by procedent oqgnitions the consciopy judgmont esnnot lieregarded as conditioned by a precedent 'non-spprehpmetipa :

[^59]:    ${ }^{1}$ This 15 a statement of the siddhanta, or established Naiydyika doctrme, in the form of a syllogism or paficivayavavakya. The only difficulty sbout the ststement is the insertion at this point of the words na tathe caitat ' (I have omitted the words in translating). This 18 the formula for the upanaya or fourth member of syllogism when the syllogism is stated un negatrve form i.e. as an argument from a vipaksa or negative example. No negative example has been grven, and so the negative formula for the "panaya comes in awkwardly s but all that it is meant to indicate is that the argurfeppt. is of the anvaydoyatirekin type, and so would admit of a negative torin also.
    ${ }^{2}$ Gee (iv) A sbove, where the criticisms here met are stated. The, particular criticisin meant here is statod there in the form rajatapratibhatal. SuktikSlambanam. See p. 67 .

[^60]:    'The text hss (p 671 21) uttarasminnavabhasamanatvam asiddham, But the sense clearly requires aravabhäsamanatoam and I have reed this
    ${ }^{3} P 67$ sbove.
    ${ }^{3}$ The first example is taicen from unnatural history, and the second is hardly sn example of a "different " effect-although the 'defect ' increnses instead of impairing the competency of the canse
    "Bee sbove, p 70 syllogism of whigh the 'Eroposition' is counter to perception or authority is already debarred from being s walld inference, and need not be further examined It is obviously easy to misuese this notion of 'bddha'. and the aubstitution of paftcaripopapannatea (by the addition of bddha and satpratipakga, sublation and neutralisstion) for the trairipya (the three canons) es s criterion of argument seems unfortanste (though, so far as bddha is concerned, it has the authority of the older commentators on Nydya, viz., Vatayaysus and Uddyotalara, and sppears in Prasastepida under the guise of pratinildbhaca-siso, incongistently, in Buddhist logic under the same gaisel. In the present instance the eppeal to 'sublation' sppears to beg the quation for the Mimemsaks's whole point is that the judgment "this as not stiver' does not sffect the trath to reality of the onginsi "thes' and "suver '.

[^61]:    ${ }^{3}$ promandibhas means fallecious proof, as hetvabhdas means the pegibl kand of fellscious proof consmang in a fallacious resson. It has been noted sbove that 'proot' is not a correct rendering of pramanna. bat the paraphrase 'instrament of valid cognition' is (though more accurate) too incomvenient.

    The first of the three odayas embodised in the Bhafya on NS I. 1. 1. Soe p 49 above.
    "praminatah The termination 18 properly ablatival. But, as Oddyotaks points out, the force of the instrumental case slso is impled bere.
    "The critacism lest answered is that last put by the Mimarheaks, p. 68, above.

    This concludes the discnssion of the theories of orrar, which extends from p. 58, last hne, to page 57, last hne, in the Tatparyafikd I have gransiated the passage in extonso, because it serves as a locus classicus for the topac, and because (so far as I am aware) the Tatparyatiked has never been tranalated

[^62]:    ${ }^{2}$ Eor the anment matiorialut tchool (Carvalus at Itokbyate a) reject all other vourees of knewiedge totin inferehoe $88 D 8$ chapter 13 , and the
     sonse refecting alf mesihs of chowledge, neverthdient scoept perception ind
    

[^63]:    srepticism (as it was nistorically prior in the history of English philosophy, Hume building on Berkeley's premises). Kumsrila is thun justified in saying that it is after setting saxde the resity of the object that the supposition of a similar unreality in the ides itself is made. and that Babars in his Bhafya has undertaken to examine the reahty or unreality of the external object because this is common to both views (idealism and nihsiam) and because it in the basic doctrine (sloka Vartiks, ntralambanavada, vertes 15-16)
    ${ }^{1}$ The Mimdsha $\bar{E}$ is not resily a phulowophicsl work but'a systam of exegetics. But the first section of the first chspter (commonly called the terkopdda or logical section) of Asbars's Bhdqya dealy with sertan logicse topics (pp. $1-38$ in the Bibl. Ind. edition), and has an important place in the history of Indian thought ingamuch as at is the besic text of the two distınctively philosophical MImämsaka, schools founded by Prabhiksara and Kumarila The latter's slokavartiks is a commenf, on this section of the Bhäzya of subara subata fortunately quotep a long pansage fromi an earlier commentator (the variously' identified snonymous 'opttskira') which comi-
     Jucobl 'Identifies the Argument of this passage with thay of Vodints saitra II, it. $88-42$ (but not with Bamkars's interprotatiorr of 'that paseagd) and with that of Nyaya satrs IV. ii. 81 seq.
     garallel to Vafayhytun:s duricult exposition of the wort woyapadefyc in N. Bh. p. 12 I $8, \mathrm{p} 1416$, that the two pessages are mutually explanstory.
    ${ }^{3}$ NS IV is. 81.

[^64]:    ${ }^{1}$ The three difiliculties, and the three parte of the 'refutation', are stocordingly trosted in three distinct sections by Kumarils in the Slokavertika, vis.-(a) versee 17-96 of the mection Autpattikasatra, which are separated -under the title $V_{\text {fittiklragrantha (Kumirile regarding this part of the argu }}$ ment onily as atstion of the Vrituklirc's now). (b) the two hundred couplots of the Nirdlambernavida section (c) the two hundred and sirty-fonz couplety of the Sirnyavdda section (But Kumirils ireate specifics iy of percopptann in the two hundred and fiftg-five couplets of the section Pratyakpatutra). It has been noted sbove that the recognition of the second part of the refotation sa deeling with a distinct 'idealistice' moment in the opponeat's argapaent does not waply that the paseage refors to the school of Buddhist
     'The Sgroderfanasaingraha distinguahes, in complete nihlinan (eare e(manyati), the two slements of annibulation of the oxternal (bdhyarthasya danyativam) and annilulation of the miternal (antdfasye famyatiam). Is mppopente the original doctrine as comprining both olementa, and seys that
     *) accept the Istitit.

[^65]:    ${ }^{2} \mathrm{CA}$ the binot Nulvdyika characternation of true comnition as tasmums tad th Manam-"knowledge of that as that". Kumanila (Slokavdrtika. Pratyakaanatra, 1. 49) explans pravoga as oporation (bydpara)-not hersesarily implying contuct. But he appeosis to hold that the saithkhyf oxplanation of perception as contict hed not been ahaken by Bauddhe coiticisms.

    The onus probandi is thrown on the doabter of the validity ol porcoption. The mere fact that error oxista does not carry with it the impllcation that thare is no trath.

[^66]:    ${ }^{1}$ It seams clear that MS I 1. 4 was intended es a definition of perception and that NS I 14 belongs to a later time when the insdequacy of the Mimathed definition had been realised Vatey of NS I. 1. 4 appears to represent truly the meaning of the sitrakara: and the general similarity of his point of view to that of the ' ofttakdra' in Babsere indusates that they belong to the same phase of thought.
    ${ }^{3} N B h$. p 14 1. 6 fi.
    'The person 18 st a distance, but not his 'visual organ' . for this is not the eye but the visual light or ray which goes out and comes into actual contact with the object But if it has to travel far to the object some sort of dusparsion affects it and impairs its efficacy.
    ${ }^{4}$ So too the Buddmet describes it as abhränta which $=a v y a b h r o d i r i$. But his addition of kalpandpodiha transforms truth of perception into novel shapea

[^67]:    ${ }^{1}$ Both this and the third part of Sabars's argument (Sabarabhdfya p. 81.29 to p. 8 1. 11, and p. 81.11 to p. 101.10 ) are transiated by Jecobi in the article in JAOS xxxi sbove referred to Keith gives an account of Garkisars's paradlel rafutation in Buddhist Phulosophy (Oxford 1988) p. 985. Beo also Thibaut's translation of the Veddntaritia and Sarhkara's Coma mentary in Sacred Books of the East, v. XXXIV, pp. 418-488.

[^68]:    ${ }^{1} J$ coobs takes tathabhive to mean 'being so', 1.0 'being true'. I have taken it an stending for the mathyabhajo of the preceding cleuse. Ho poady the toxtacl pratyaycteat, inateed of the vamant readmg pratyaylt, which I adopt.

[^69]:    ${ }^{1}$ The resemblance between the language of this complet and that of
     ${ }^{18}$ pointed out by VidyËbhilisana HIL, p 46 But the Lankävatăra shows prophetic knowledge of things which happened long after the latest possible diste for the composition of the Nyäya Siltra, as appears from Vidyabhuapapa's account of it in JRAS 1905-see Keith ILA, p 28. Vidyåbhûpaps draws attention to sumular parallelısms between Nägarjuns's Madhyamika Sútra and the Nyäyu Suitra (HIL, p. 46, see Kerth ILA, p 28) But any inferenoe as to the chronological relations of these works has to take into account the (mprobable) supposition of later interpolations in the $N y \bar{a} y a$ Sutra and slao the (probable) contingency pointed out by Gopinath Kavirāj in pp 12-18 of his introduction to Gaúgénātha Jhè's tranalation of the Nyäya-that 'tagg' pasa on from author to author in much the same phraseology, and that such "tags ' may be much earlier than the work in which we first happen to meet with them Thus one of the parallelasms (between NS IV. 1182 and MEdhy. Sutra VII. $84=\mathrm{p} 177$ of Poussin's edition) is parsllel sgem to Patanjali's Mahdbhdefya on Papin IV. 11 (Kaviráj, loc. out.) So that inference is precarions See next note slso
    ${ }^{2}$ This is the form in which it in quoted in the SarvadarAanasamgraha (chapter on Bauddha system); but in the Lankävatira Sitra itself the second line runs-

    > tasmăd anabhılapyals te nuhsoabhäods ca defttch.

    This occurs at II 175 and again at l . 167 of the long verse section which ends the book ( $p 116$ and $\operatorname{sgain} p 287$ of Bunyiu Nanju's edition, Kyoto, 1928). Cf. the phrase buddhỹ etvicyamãnam in a line occurring at II 198, repeated in the concluding section 1. 874 It is in thin phrase slone that paralleliam to NB IV 1186 is to be found. And the phrase neems to be a 'tag ' which would be found in other works as well. and this beng ao the suggestion that the $N y d y a$ Sutra echoes the language of the Lankavatara would seem to be groundless for the other parallehsm which Vidyabhipapa refers to (NS III ii 11 and Laikk. V1. 10) is even less significant than this as evidence of connection. The suggested parallel between NS IV. 11.82 and Madhy. S. VLI. 84 is agam a tag found in a score of pessages in Lainkdeatara.

    And I think that other supposed "verbatim quotations from the Madhyamika Sfitrs" are in the same way 'tage ". If we could be sure thst Nightrans was the first formulator of these formulas the case would be different. As it 1s, all that can be sand with safety is that the Nydye sutra

[^70]:    repesta the formulm of Buddhist sinnyavdda philosophy If and when we can settle the period st which these formalme first became current we shall have fixed the termanus a quo for the composition of these passages in the Nyaya Satra. But not even then for the composition of the whole Satra, perhaps For there ary certain indicstions of dislocation at NS IV 1 3, felt by the commentstors (see Gangēnatha Jhă's footnotes to p 159, Vol IV of his tranalstion).
    ${ }^{1}$ Conipare Leibnitz's argoment for 'petites perceptions '
    'Thes satrakdra's own position is said to be that the whole resides by relation of samavalya in the parts. The whole is a constituted effect, the parts its constituent canse. The constituted resides (samaveta) in its constituents This is the commentators' explanstion, based on the doctrine of samavaya imported from the Vaidesica system. Takng the present satra passage at its face-value, however, it seems that the sutrakars intends sitita 11 as an snswer to both elternatives, ie he means that the quesions (a) whether the parts reaide in the whole of the whole or in its parts (b) whether the whole reasdes in the parts as a whole or by parts, are both questions which ought not to be suked.

    In this connection the interpretation of IV. i. 8 is importent. On the face of it the altra denies the reshity of wholes : though only by implication tannomittam to aeajaryabhimdnah-"the cause of these defects (lust, eta) ts the comnait of whole", i.e. If men concerved of women as mere aggregatea

[^71]:    of unpleasent physical constituents, bones and blood etc, there would be cessation of desire. The commentators asy that thas has no reference to the reality of wholes, but merely teaches a uneful morsl device. And yet, if the whole is a reality, humen nature hes a retort ready for the morslist So that it seems just possible that IV in 3 resilly does belong to a phase of Natyäytka doctrine which had not yet adopted the characteristic teaching of the reahty of wholes In that case the passagea II $183-36$ and IV. ut 4-17 would have to be considered later additions-and this would lend colour to the view that the whole of the psanages polemising against Buddhism (II ${ }^{1}$ 32- 36 and perhaps 30-43, III i1. 11-17, IV. $184-40$ and 48, IV u 4-37) are later additions That there is a certam dislocation at IV. u. 8 has already been remarked and it may be added that IV in. 88 resumes the topio of tattoafiaina broken off after IV 113 See Keith ILA, p 25, second half of footnote 2; Vidyabbhogapa's translation of Nyaya Sütra (in Sacred Books of the Hindus, Allahabsd), introduction $\mathrm{p} \mathrm{x}_{1}$, and ha HIL, pp 46-50 Vidyêbhapapas's sttempt to distinguish 'Gautams' from 'Akgspuds', and his assertion that Vateysyana interpolated into the antras the passages dealing with Buddhusm, need not be taken seriously. On the other hand it is likely that the Nydya Sutras grow rather than were made, and that theor fingl form (which may have been achieved in the third centary A. D.) is a Anal redaction and not a first composition
    ${ }^{1}$ Perception does not function beyond its proper sphere (soaverayd. natikramena sndreyarya praprttin). And the umperceptible 13 begond the sphere of perceaption, indistinct or dustinct.

[^72]:    'sutra's 15-17 are the connecting link between the attack on the whole and the attack on the stom, 1 e. the ultimate part which as having no parts would not be exposed to the preceding dialectic Parts which are not ultimate could be shown to be unreal by this same dalectic-avayavajayavsprasangaf cavoam a pralayàd
    ${ }^{3}$ param truteh exactly translates the Greek atomos
    The $N y d y a$ and Varsegika accepted the phymical theory of atoms, but they were neither of them metaphysical atomisms,-as Buddhism was. The Nasyayika acceptance of the avayavin, the whole as a reality, and the Varfegika doctrine of samaviya, the relation by which parts constitute a whole, and of the reality of the universal (sdmãnya), are dismetrically opposed to atomism It is the saroah prthak, saroain kfanskam-everything is separate, overything is instantaneous-of Buddhism that is the real 'atomism'
    ${ }^{\text {skalrye in a }}$ ach a context means a whole and karana means the parte which constitate, or are the samavayskirapa of, the whole.

[^73]:    The assumption being that atoms must have some shape or other, being finite corporeal things Epicurus, in view of the difficulties arising from sllowing that stoms have extension and shape, msintsined that the stom is not the minimum, but the indivisible It seems to me thist it is precisely theee two views of the stom-ss the mumum, and as the indivierble-that are stated ss alternative possible views in NS IV 1116 and 17 ma pralayo 'nusadbhāāt parain od truţch "The externsl object does not vanish (as the result of endless diviaion into parts), becsuse a minsmitm remains Or else something which 18 beyond diviston". Dee H A. J Munro's Lucretius, Vol. II, notes, on Lucr. I 599-694, for Epicurus' statement eifontal סe
     "What is asserted in the name stom ' 18 , not that it is a manmum, but that it cannot be divided."

    On Epicurus' new therefore the stom has parts but parts " sbiding from all eternity in unchangeaple juxtaposition '-sunt sgitur solida primordse simplicitate qua minimis stipata coharent partsbus arte, non ex sllarum conventu concileata (Lucr I 609).

    Epicurus therefore finds some sort of answer to the difficulty here arged But Indran phyaics concerves the atom as a minimum, calling it always by the name anu or paramanu (=minimum), and having no term which gives the precise sense of atomos-though of course the paramdinu being a minimum is also indivisible If the stom is minimum, and at the same time figured, there is no escspe from the difficulty which the opponent here rases

    It would be possible to find an echo of Greek thought in the alternative offered in IV, u. 16 and 17. Cf Keith ILA, pp. 17-18.
    ${ }^{2}$ Vatelysyans suppliee the connection of thought thus, Yed rdam bhavän buddhir afritya buddhsoupayah santit! manyate, msthyabuddhaya stäk. yadt hs tatteabuddhayah sywr, buddhyd vicecante kriyamdre yathitmyam buddhvoŗayandm upalabhyota (NBh, p. 28816 on NS IV in. 25), Evoherbataky ergues on the authority of Vicaspati Mifrs that thm section (satra's $26-34$ ) is darected against the pyñanaodda, but Jacobi has abown that it is etill aganat the finyavddin thet the Nyaya Satra srgues. But, as has boen

[^74]:    asid, there is an ' ideshistic ' moment in the dunnyavada argument it is this aspect of the sceptical dislectic to which we pass in the preesent pasaage See also supra, p. 30 n 1
    ${ }^{1}$ Bee sbove, footnotes to P 85 If this wers s verbatsm quotation from Lankdvatdra Satra, as Vidyabhisaps ssserts, the fact wonld support Stcherbstaky's view - for the Lankdoatdra ise sotjadnavddin work (The earhest Chinese version is stated to have been made in 448 A D It would appear that this version does not include the concluding section in which there is a prophecy of Barbarisn kinge following the Guptas-obviously referring to the Hans, 1 e. to a penod after 450 AD The remainder of the work mugt be earlitar than 448. There is a reference to Akşapäda-but this too is in the concluding section $\mathbf{~ x x . ) ~}$

[^75]:    argument into complete scepticism (saroaf\{nyatãoãda). That is why Nagarjuna usee it But of course the dream-argament lends itself to the disproof of the reality of external objects, and the idealist sdapted it to that use. That 18 why the dream-srgument is foond in an ideslist work such as the Lañkãatara Sütra The later Indıan commentators take it as a specificslly oyfinavada srgument and Stcherbstsky follows them. Bat had it been so it would not be found used by Nagarjuna in the Madhyamika Satra.
    ${ }^{1}$ Perhaps Vātsyăyana refers here to the saroastivadtn school of Bauddha philosophy-"there is then nothing to choose between yon tinyavadins and your extreme opposites in the Bauddha schools, who maintain that everything existe ".
     81). mäyägandharoanagaramrgatrguikävad oă (sittra 32).

    Vidyíbhãana (HIL, p 46) regards thas as an echo of Madky. Satra, VII, 34 yathd mdya yathd svapno gandharoanagaram yathä, tathotpddas tath $\begin{gathered}\text { sthanam tathd bhanga udahrtam. }\end{gathered}$
    This is the concluding couplet of the eection in which Nägaryune applies has destructive dislectic to the threefold notion of ongination, sabsiatence and destruction (utpidda-ethitt-bhaigga) It answers the objection-' If these notions are meaningless, what did the Buddha mean by using them in his toeching?" Thus, although not used in just the same context as the dream-analogy in used by the opponent in the Nyayd Sutra, the couplet still has in Nugarjuns the same general function of rounding of the sceptical dislectic.

[^76]:    'VEtaydyans's use of the lamp-simile here 18 not clear, nor is the resding certsin. We want him to bay that the light of truth must be presearitin ond uase if we are to argue ith absence in the other case Kessys that yor can only argue from non-apprehebsion to absence if the thing 18 not sbeent in both ceses-yatha pradipasydbhdodd ripasyddarianam sti as Wo nay ' colour is not apprehended because the lamp is absant" ". The meaning spparently is that we can say this only because the lamp is present in othar cases when we nee the colour

[^77]:    ${ }^{1}$ Jacobi's strongest point against the view of Stcherbstaky that the early siftra's and bhäfya's polemise agsinst the vifflanavada, is the sbesence from them of the peculiar phraseology of vif̧ãna and dlayavifnãna.

    Jacobi finds in this passage of Sabars's bhisya a commentary on Ved. Silta II 11 28- 82 (the polemic on Buddhism, parallel to the pssasge from the Nysua Sitra which has just been deslt with) Ee draws attention to a reference to Ssbars in Samkare's commentary on Ved S. III 111. 88, which seems to indicate that a coinmentator might well say by anticapation in comment on the Purva-mindinsi what would hsve, been in place rsther in comment on the Vedanta or Uttara-Mimaiths the two systems being at first what their nsmes implied, -parts of one whole. He believes that the prttikdra here quoted by sabars is one Bodhaysns author of a comment cn Vedinta

    The Vod S. passage rins .-
    28. nabhaiva upalabdeh,

    99 vaidharmyde cq na svapnddvat,
    80. na bhovo "nupalabdeh.

    81 ksantkatedo ca,
    82 sarvathdntupapattef ca.
    "The objects of cognition are not non-entities, becsuse we sctally percerve external objects Nor is our cognition imilar to dreams, because there is a difference between wsking-cognition and dresm-cognition The idea cannot be the object becsuse it is not the ides which forms the object of bur epprefiension Also becsuse ideas are momentary. And (the opponent's' poaition is absurd) becsuge it is sltogether mupusabld" (This followesi Jecoba's interpretation)

[^78]:    This pasage then, like that in Sabara, seems to argue against a type of sceptacism in which an idealistic moment had become a relatively mportant and independent part of the argument. The last sitra should perhaps be rendered." and the assertion of non-existence in toto ( 1 e both of object and of ides) is absard because impossible "

    It is however possible that the $N_{j}$ dua and Vedãnta are attacking the same viow, but make it look different oy difference of selection and emphasis.
    ${ }^{1}$ It is this assartion which, according to Vataysyans, is intended to be mot by the word apyapadefya in NS I 1. 4 See below
    ${ }^{1}$ 'Like Hylas (in , Berkeley's Dialogues) and G. E Moore in his *Refutation of Idealsom,
    ${ }^{3}$ This is a point of difference between the $N y \bar{y} y a$ and the Mimathod The Nyäyc teaches that cognition is a 'quality' of the soul, perceived like any other quality by contect with the sense-organ,- the sense-organ in this particular case being the manas or internal sense. The Mimähsaka denies this 'inner sense' theory, and says that the exastence of apprehension is inferred.

    As VEtayiyans explaing the object 15 called 'ghata', and the knowledge of it (ghatafilina) can only be referred to by the same name with an added 'sts', i.e. the same name 'in inverted commas' To deaignate the sdee of a pot, we asy " the ides 'pot '".
    ${ }^{\text {sSabbara-bhärya p. } 91.11 \text { to p. } 10110 .}$

[^79]:    ${ }^{3} \mathrm{ep}$. Ved. 8. II. n. 80 na bhävo 'nupalabdheh.
    ${ }^{2} \mathrm{cp}$. Ved. 8 II. $1.51 \mathrm{kqapskatide} \mathrm{ca}$.

[^80]:    ${ }^{1}$ With this of apyapadosyam in NS I 1 4, and partucularily Vātsyanyana's exposition, $p 12$ ] 3 to $p 1416$ The passages in Sabara and Vatsyayana explain each other.
    ${ }^{2}$ Reading the emendstion suggested by the B $I$ edn editor, Mahefia Candra NyEyeratna, in a footnote to p 10, viz, avyapadedyam ca na pratyaksam, in place of the avyapadefyari ca napratyaknam of the test This emendation is necessary, as the noxt sentence shows

    The emendation suggested by Jacobt in JAOS xxxip 80 n . tasmann no. oyapadesjd buddhih, avyapadesyam ca ndma pratyaksam is questionable from the point of view of textual criticism and gives meaning inconsistent both with the present passage and with the parallel pessage in Vátsyēyana's Bhdpya, p 1218 fir

    No doubt Jacobl desired to bring Sabars into line with NS I i 4 But sithough the statement, avyapādedyam na pratyakgam seems st first sight to conflict with the NS avyapodefyam pratyaksam, Sabars's passage is in fact another way of saying the same thing,-at any rate the same thing as Vatey $y$ gans asys For Vatsyayans's point is that the perception and the thing percerved are different, but that we use the name of the thing perceived to ' denignste ' the perceptual process itself. the latter being in uteelf 'indesignable '-apyapadedya This is $\gamma$ ' at what sabara araprts in the clause na oyapadesy $\overline{5}$ buddhih . But of conrse Sabara draws from this a condution which Vatsyayans would not scoept when he says apratyakfa buddhih. For the Naiydyika held that mental processes such as perceptiop are thernselves perceptible by the internal organ In this he differs from the Mindteaka. But hoth are at que, ss sgainst the Bauddha, in asserting that the process of perception is is different thing from the object perceived sind that the latter can be designated, whereas the former cannot be deaignatad. in ite nwo finm

[^81]:    ${ }^{1}$ Vacaspati Mysra does violence to the Suitra and Bhanya in his anxiety to father on the esrly suthorities of the Natydyska school 'Trilocana's' doctrine of two kinds of perception-perception without qualificstions (nireskalpaka) and perception with qualifications (savikalpaka). He interprets the sutra mantioning both kinds-niroikalpaka in the word avyapadefya, snd savikalpaka in the word vyavasäyãtmaka. The doctrine however $1 s$ later, and seems to have arisen in answer to the Buddhist view of perception as kalpanapodha, to the bare mpression of sense divested of all additions made by the understanding. That this Bauddha interpretstion of avyapadseys as kalpandpodha is a not unnstural interpretstion 18 evidenced by Dr Jhi's footnote to p. 115 of vol. I of his translation, where he ssys " it would noem that the Bauddha definition of perception as kalpanappodham abhrintam were a true rendering of Vatsyayans's view " But it soems to me that Vatsyayans's view (which I beheve represents the probsble meanmg of the sitra) is different both from the Bauddha view and from Vicsespati's.

[^82]:    ${ }^{1}$ Vacaspati sppenrs to connect it with the philosophical grammarians, and quotes in this connection two passages from Bhartihari's Vakyapadifa, L. 184 and I. 128 (NVT p. 88, and the editor's list of identified quotstions, to which I owe tbese referencea)
    ${ }^{2} \mathrm{Cf}$ apyapadefy in NS I. 1.4 See noxt nobe
    -rhis suggeste J. B Watson's 'behaviornt' psychology

[^83]:    ${ }^{1}$ Jacobi JAOS xxxn, p. 20, footnote, renders the terme by 'not intimately connected with words', which is as close a rendering as is feasible. But I think he is mastaken in saying thst its meaning is more accurately expressed in Dinnage's definition of pratyakfa by kalpandpodhe. for this imphes the equation avyapadedya $=$ nsrovkalpaka, which seems to me later. Cp. PBh p. 187 II. 18-19. Praf́stapesds parsphrases NS I. 1.4 in this passage, and repeste the word avyapadefya in has paraphrase See p 118, n. 2.
    ${ }^{4}$ mind ' is a symbol for 'manas ' not a translation.

[^84]:    ${ }^{1}$ cyavasdya and antryavasaya seem to be used here in the technicsl senae common in the later achool, the former being the cognition itself-ghato 'yam, this is a pot-, the latter being the swareness of the cognitionghatam aham jandmi, I spprehend the pot

    A blind man could not have atoareness of perception of colour-ripam aham jünämı-because he leckn the organ for the perception of colour. Simularly he could not even have a doubtful apprehension of the colour of a thing, nor could he be aware of any such doubtful apprehension. (There is no rasson perhape why anuvyavasäya should not be apphed to swareness of a doubtful spprehension Bat as Vtatayãyans conflnes vyavasãya to cognitrons from which doubt is excluded, it seems that he would natarally confine anuvyavasdya to the awareness of anch [1e. certain] cognitions only.)

[^85]:    'The principle of like grasping like underhas this primitive paychology or physiology of the sense-organs. The hearing-organ graspa sond because it is made of 'ether' and sound 18 the peculisr property of ether. the organ of smell is made of earth-substance, of whoch odour is the peculiar property the taste-organ is made of watar, of which sapidity is the proprium : the visual-organ, of hight-subatance, tojas the tactale-organ, of arr, to which the quality of touch is proper Eisrth, water, fire, sur, ether are the five matarial substances (panca-bhatdoni). See NS I. 1. 12-14. To these five bhate's or 'stutts' four other 'substances' are added-opace, tume, the soul, and the mud or mner orgen-to make up the Nine Substancea which the Vardeqikas recognised, as mentioned in VS I, 1. 8.
    'In short, it marks the point st whoh the 'like gresps like' theory of perception goes bankrupt. Mind which granps conscrons etates it itself not endowed with conaciousness. See PBh. p. 89 1. 18.

[^86]:    ${ }^{1} V \mathcal{F}$ III $n$. 1 argues thet manas exists on the rather different groand thet when there is contact of object, orgsn, and soul, knowledge sometumes srises but sometames does not,-which implies a fourth factor. In both arguments maras stende for 'sttention '.

    The argument from non-simultaneity of cognitions and volitions is used in VS III. in 8 to prove that there is only one 'mind' in each body and smalarly in NS III is 09 VS VII 128 teachen that manas is atomic, sot sll-pervadmg like the monl, smilarly NS III, 11. 68

    The Vasieqika 8ütra. See preceding note for the similarity of the two systems in their doctrine of manes. But I find no explicit statement in VS, eny more than in NS, that mamas is a sense-organ. The motive for calling manar sense-organ no doubt 15 thit both systems class paychical procoases and states smong the 'quahties' and a sense-orgsin is required for the perception of these 'quahties' Vitagryans and Prafastapide both call whates sense-orgen. But see below pages $864-5$
    ${ }^{3}$ tantrayukts See Vidyibbhüsap̀ HIL p 24
    'paramatam apratiqiddham anumatam ' anumata' is the name givan to one of the tantrayukts's both in Kantilys's and in Sufruta's lista. and it is defined by them in exactly the words here used by VEtaysyans

    Dioñage in his Pramänasamuccaýs nidiculed Vatsyaysns's use of the princuple in this pasage, justly remsiking that if scceptance of doctrines follows from not rejecting them the other sense-organs need not have been mentioned in the Nyaya Sutra (seeing that the Taifesika Suitra mentions them) -stipodhäd updttam ced, anyoupltsyarutam orthd (quoted m NVT, p. 97 1. 1. 98 . In the line cited on the same page $1.1-4$ line which forms the first half of the same couplet, as appears from HIL p 280 footnoteDtangige soems to point out that the admission of manas to the status of organ of parception is in fact implied in classing paychical states such as plessure and pam among the objects of cognition -na sukhadi prameyam oñ, mano edetindriydntaram. His point agamat the satra apperently 18 that it ought to have claseed mance as an organ but failed to do so. "Either psychical states are not objects, or else mind is an additional organ").

[^87]:    ${ }^{1}$ See Vartika ad loc Gaigandiths Jhi follows one of these alternstive explanstions in his translation.

    2It is noteworthy that VS III 118 omita mance in its enumeration of the factors of the 'contact' from which oxternal perception arises, just as NS I. 14 does It is incredible that the ommanon shonld be, so to say, socidental in both cases. I think therefore that the exphisit notion of a catustaya of factors comes after the sifira-period, though slremdy present in Vistagyans and Prasastaptide. Vidyabhagapa says that Diñfge in quoting VS III. 1. 18 mserte manas moto the formals (HIL p. $879{ }^{\circ}$ n.). Did he insert it as representing the doctrine of the Varteqika school of his day?
    (The occurfence of mance in VS, V in 18 proves nothing, since that -atra is defining the apprebension of pleasure and pain, in which manas is conceraed in its special 'inner-tense ' function).

[^88]:    ${ }^{2}$ For the Nyäya-Vatzepika polemic against this view ase $N K$ pp 90-92 (translated by Faddegon pp. 403-406) See also NK pp 96-97 (Faddegon, pp 406-400) for cnticism of the Mimameaka view that thought 18 inferred from the 'known-ness ' (griatata) of things.

    For the difference between the Bauddha view of cognition as sampsdya and the MTMdtheaka view of it ss svaprakdia, see JhI PSPM pp 26-28 The Bauddha meant by samoodya that the cognition can be ite own object (karma) Prabhatkra replies that we are awsre of our cognitions as gubjective processes but not as objects-sampittayaiva he sampit samvedyã, na sam. vedyatayd (quoted PSPM p 26). Therefore, if we are to call cognitions samvedya we must be careful not to understand sameedya in the sense of prameya, 1 e., objeot of cognition. For cognition is never the object of direct approhonsion It in however the object (prameya) of inferetice we can infer that oognition exists-but that does not mean that it is ever an object of direct spprehension.

[^89]:    * Altbough Vátayayāns finds himself compelled in this passage to admut that manas is the indruy in self-consconsness he never developed explucitly the doctrine of mänasa-pratyakfa, and regularly uses the phraseology of samivedya and sathott. Bat his admission here, emphssised by Dufngga, became the source of the doctrine of 'inner sense'.

[^90]:    That both Kumărils and Vecaspati Miers ware aware that the doctrine of naroikalpakajalina denves from Pradastapede (or from a doctrine sumular to his) is perhsps indicsted by the fact thst they both use Prafastapida's term alocana in connection with narvikalpakaphana Bee Sl. Fart, pratyakfaritra, 1. 71 (videqane tu bodhaoys yadālocanamatrakam), and NVT p. 88 1. 18 (alocanajnandoarodharthendeyapadesyapadena- the word avyapadedya [in NS I 1. 4] has the force of including mituitive apprehension).
    ${ }^{1} P B h$. pp. 186-188. The passage presents senons dificulties. Faddegon gives an snalyais of the passage (at p 294), but does not translate it he tranalates the polemicsl perts of Sridhara's comment at p. 44. See also Gahganstha Jhis's tranglation in the Pawdit

    The textual reeding is : mahaty anokadravyavattvodbhataripaprs$k$ didacatuptayasamnikaradd. This gives no sense, and must be corrupt. But there is no doubt as to the meanung (i) Atomic substances (manas, and the atoms of earth, air, fire, and wster) are umperceptible. Rarth-composites, frocomposites, sid water-composites are perceptible. (i) Substances which, although of more than atomio aize, are not componites are umperoeptible (apmos, tume, ether, and the soul). (ii1) A subatance which satusfies these two conditions li air But this also 18 imperceptible in virtne of the carions third condition, for it has not ' manifest colour' : and the Varfegikas hoid that a substance does not become perceptible in virtue merely of the percaptibility of the quality which forms ite peculiar property (in the case of air, tonch)-unlees it the same time it possessen udbhitaritpa manifest form or colour '.
    ${ }^{\text {Th }}$ The four factors are object, oxternal organ, mind, and soul ( ${ }^{(m u n d}$ ' is a misleading rendering of mance, in apite of etymological identity. But the slternative rendering internal organ "auggests the function of mences as orgen of inner sense. In the present context manat has its other meaning m the organ of attention).

[^91]:    'NK p. 19414 anekeqp avayavesu samavetath dravyam anekadravyam tatra samapdyat. The quality of a single atom would not be perceptible
    ${ }^{2}$ Ibud. soagato viseqo ripe rippatinam, rase rasateam, ete, -tasmat I have followed thas. But it would give better sense to interpret "as a reanlt of the special property whth which the organ in endowed ".-It would be swikward to rafer sva- in svagata to the organ when sva- in sodírays refers to the quality percerved but avagata may be taken as a unit-wordproprous $\rightarrow 0$ that thus dufficulty wall not arise.

[^92]:    ${ }^{3}$ The three fectors are soul, manas, and organ of hesing The drtha, or thing (other then the sense-organ) in which the quality perceived reades, disappesrs, becanse there 18 no contact (samyoga) between theportion of ethet enclosed in the ear-channel (which coasintutes the organ of heanng) and that portion of ether which is in ummediate contact with the resonsint body so that this cannot be case of samyuktasamavdya, " mber-ance-m-the-conjunct '. It is therefore described, m the ister phraseology of the doctrine of Six Contacts, under the rubric of semavdya-simple inherence of the quality perceived in the percenving organ. We do not hear the onginal sound (ddyafabda) at all. Sound propagstes itself in the ether as a successton of sounds, whoh may be umagined as resembling euther wave-undulation. (picatarañga) or Kadamba-bude (kadambamukula) the initial sound is produced by conjunction or disjunction of bodies (osbhdga- sampogajafabda), while the intervaning sounds and the finsl sound (madhyama and entyadabda) are produced by the immedistely preceding sonnd (dabdajadabda). The final sound is that inherent in the portion of ether which forms theorgan of hearing , and it is thin that we hear. (See Tarkabhaqa pp. 188-188, with p. 81) In this sense then there 18 no ${ }^{\text {' object }}{ }^{\circ}$ or artha, and so PraAmstspide says there sre only three, instead of four, factorn in the asihmkarfa.

    ## 'Without the ald of a (conjunct) object. See last note.

    ${ }^{\text {shese }}$ These what we should call-in Locke's terminology-primary qualities. Bat they are not all 'qualities' (guma) on the Indian view : for the last one, movement, belongs to the category so-named (karma).

[^93]:    ${ }^{1}$ The later rubric for thle form of contact 28 samyuktasamaoaya, inherence in the conjoined (the paychical 'quahties' being inherent in the soul, and the soul being in conjunction with the internal organ). So that the rabrio for inner sepme perception is identical with the rubric for the external sense perceptron of qualities (other than sonnd) and of movement. This is obviously objectionable : sind Prajastapada's classufication by the number of factors involved in the 'contact' has at least thus advantage over the later clasmification, that it makee mner-sense perception very different from any form of external perception

[^94]:    ${ }^{1}$ This closes Prasastapads's account of the varieties of normal perception, which thus omite the sixth mode of contact recogmised by Dddyoter kars and all subsequent schoolmen-namely, vueqaquaveqyabhäpa.

[^95]:    ${ }^{2}$ This is an onanswersble argumontum ad homsnem. The opponent says that the monkey's movement is known by anumana-which means demonstrative proof. But the very premises which are supposed to 'demonstrate ' that the monkey moves, would slso 'demonstrate' thst the tree moves : and the opponent is not free to refuse to draw a conclusion which is 'demonatrated' by his premises. For the conclusion of a demonstration is not like a hypothens, the force of which depends on its being the only uppposition available.
    'vivadvitatalokaniodhavibhigasamyogapravdhe Fsidegon renders * the series of conjunctions sind disjunctions with the multitude of light-beams expanded in physical spece ". The difficulty anggests itself that the "light beama ' are not percoptible ordinanily.

[^96]:    ${ }^{1}$ It will be seen that this supernataral perception of the yuktayogin (the perception of the viyuktayogin is merely supernormal) fills an muonvenient gap in the Vardeqika theory of knowledge. For it provides for the perception of the (for us) imperceptible catagory 'inherence ' and of the (for us) imperceptible six substances-ether, sir, space, time, soul, manas almo of what 18 (for us) imperceptible in the thrie perceptible substances-namely, the stoms The Vasiesike, it is true, rejecta Credible Testmony ss as separate Moans of Cognition (pramana), and so the mere fact that the Yogin reports his mituition of these imperceptible matters could not be used to establish their reality, and it is consistantly maintained that these things are entablished by inference (of the samanyato difta type). But there is an obvious difficulty in inference to the transcendent : and the credible teatimony of those for whom it is not transcendent, though not a separnto meens of proof, is at least a valnable anxilary to inference

[^97]:    'differentiated perception '. For vithfafilina presupposen videqanajnãnajudgment presupposes ammple apprehension

    It seems that Sridhara's interpretation of the pasage is forced, especially in its explanation of alocana as used in the prosent sentence But the passage remans unintelligible $\mathbf{A}$ distunction appears to be made between - pariipdlocana and avibhaktam dlocanam, which I cannot interpret
    ${ }^{1}$ avitatham avyapadetyath fhinam This is a partisl parsphrase' of NS I. ${ }_{1}$ 4, repesang the term avyapadedyam withont explanation
    ${ }^{2}$ sarosequ padärthoq̧u catuptayasamnskarṣ̆d avitatham aoyapadesyam yaj fadnam utpadyate, tat pratyakpam pramanam It seems clear from this that Prafastapada did not understand aoyapadesyam in the sense which Vacaspati Míris pats mpon 1t, 1 e . as the equivalent of nuroikalpakajnana or of aparipalocanamatra On the contrary he is equating it with savikalpakajunanaknowledge of qualified objects 'in all the categories, This is a resultant of alocanamitra. Bat it can itself be the unstrument of a further reault and when it in thus instrumental its further result is realusation of the practical bearinge of the objects percerved. He is merely repeating what Vistay面yang hed sald indeed the present passage may be a reference to Vitsyayans, NBh p. 10 Il 1-2-ak sammikaryo jhd̄nath od. yadळ̄ saminikarsas, tada jüdnam pramitih yadd fhanath tada hänopaddinopekedbuddhayah "Perception is the functioning of the several sense-organs in relstion to their respective objects The functioning may be regarded as consisting either in the contact of organ and object, or in the knowledge. When the contact is taken to be the functioning of the organ, then the knowledge is the resultant cognition. But when this knowledge atrelf it taken to constitute the functioning, thien the reaultant cognition will be ideas of the object as desirable, undesirable, or indifferent ".
    "Compare Tha PSPM p 41 ad fin. p 48, where Prabhikara is stated to draw a precisely sumular dustinction between two ways of regarding the pramdna and the phala. The distinction becsme a commonplace of the later echools. But ite philowophical ugnificance is by no mesns clear.

[^98]:    ${ }^{3}$ How can you characterise the characterless? This is the barden of Uddyotakara's critacism of Diñagge, a criticism which, as Keith says (ILA p. 71), amounts to the retort that " a consistent sensetionalism should be speechleas, and therefore unable to give the definition suggested ". As Uddyotakars puts it, the theory is like a dumb man's dreain-it cannot be communicated (NV p. 4519 apratıpädakatvän mãkasvapnasadfíam).
    ${ }^{3}$ NV p. 441 1 cates the phrsse kalpandpodham, and NVT p. 1021 1 says that Diñaga's definition is the object of Uddyotakara's criticism in the passage Vidy店bhiasma (HIL p 277, footnote) cites Dinnâga's description of perception in Thbetan ss from Chap I of the Pramänasamuccaya, and says that the Sanskrit equvalent 18 pratyak yutam

    I have not met the second half, as here given, anywhere cited. The couplet cited in the Sarvadarsanasamgraha is later than Dinnäga, containmg as it does the term nirvikalpaka It is perhaps from Dharmakirti. kalpandpoḑham abhräntam pratyakẹath nirvtkalpakam vikalpo vastunirbhāsăd asamvädād upaplapah (Chapter on the Bauddhas, ad fin.). The second line of ths couplet 18 quoted by Eridhara NK $p 190$ i 18 (with visamvadad in place of asamodided) The SDS, absd, goes on to quote another couplet as if fr m the same context -
    grahyaith vastupramānäm hs grahanam yad to 'nyathd na tad vastu na tan mänam sabdalın̆gendrıyäduam
    The meaning of the two couplets seems to be -
    " Unqualified perception is stripped of characters and unerring qualification is an sccretion, since it dissgrees with the sppesr ance of the thing For the object (in perception) has the thing itself as the means by which it is validly cognimed. spprehension in sny other way than this ( 1 e . spprehension not immediately derived from the thing) is not reality and is not proof,-neither proof by testimony nor by inference nor by perception" (Gough's translation $p 38$ is different)
    'Vacaspati Miśra cites the Vakyapadiya as typical of this view (NVT p 88 1. 9) -
    na so 'sts pratyayo loke yah babddnugamäd rte anuviddham soa fhanam sarvaih sabdena gamyate.
    " There is no thought known to exparience which is without correnpondence with a word the whole of knowledge is as it were pierced and threaded with words ".

[^99]:    This same couplet is cited in the Tärktkarakg $\bar{a}$ ( p .61 ) where the view is ascribed to the 'Sabdikas ', and is said to amount to the assertion that only perception with qualifications ' exists-i.e. there 18 no such thing as nirotkalpakajnana. The niew is thus represented se the antithetical error to thet of the Bauddhas, who hold that only unqualified perception-nıroikalpakajfäna - 18 vahd.
    ${ }^{1}$ But when Vacaspati is polemising agsinst the view that the pure percept is devoid of all charscters he gives snother interpretainon of avyapadefya, as being a possessive compound mesning 'heving no vyapadetya Vyapadefya in this compound means orefega, thing-to-be-qualified or subject and so avyapadobyajfidna comes to mean knowledge of qualifications unrelated to athang-qualified. NVT p. 82 1. 8 That 18, niroticalpa is certainly (as sgainst the nomingists) tabdarahita: but this does not mesn that it is (as Dinnage supposed) kalpanärahita or characterless. On the contrary, it is fatyadisvaripivagdhe (NVT, loc out).
    ${ }^{\text {r }}$ It is illustrsted by the experience of infants and dumb persons, eg. by Kumarils of the Slokavartska (pratyakga, 112) -
    asti hy alooanajnãnath prathamam niroikalpakam batlamakadsvifuanasadriah fuddhavastugam
    "There is a primary intuitive apprehension, an unqualified perception, arising from the mere real,-like the apprehension of infants and the dumb ":

    Thas couplet is quoted in the Tarkikarakpa, p 60, in thus connection,
    ${ }^{*}$ Seo VidyEbhusapa HIL p. 277, and footnote 1 on page 109 supra.

[^100]:    'dravya, as one of the five videganas or kalpanās (predicables), means some relstion to snother thing or substence, which serves, in virtue of this relation, to qualify the given thing as a stick qualifies a man who carriss it, or horns qualify the cow which has them Attendant curcumstance or secident is thus a fair rendering
    ${ }^{2} B y$ Sridhara, in NK $p \quad 18014 \mathrm{ff}$ His polemic egainst the Buddhist view of perception falls into two hsives (s) p 1301.4 to p. 1311. 22, dealing with the view that only nirovkalpaka 18 valid, and not savikalpaka; and (b) p. 131122 to $p 13413$, dealing with the view that perception is kalpandrahsta, and that the knowledge of kalpand's constitutes 'savikalpaka * But sfter all these are only two different ways of sayng the same thing, viz, that all thought-determinstions are illusory as not immedistely given Sridhara is really meeting the same position twice over, with different sets of arguments. The confusion is due to the different senses in which nirvikalpaka 18 used by the Bauddha and the Naiyayika reapectively, the Bauddha understanding by it perception free from all vikalpa's, while the Naiyayike unes it of the perception of unrelated oikalpa'a
    ${ }^{3}$ Cf. Nyäyabindu p 103 tasya (i e. pratyakeqasya) vifayah spalak-
     tat svalakq̧anam Tad eva paramärthasat, arthakrıydsamarthyalakẹanatvād castunah Anyat simdnyalakpanam so 'numanasya vrgayah.
    " The object of perception is the svalakpana. The soalakpapa is that throngh proximity to and remoteness from which diflerances in the cognitive appearances arise It alone is ultimately real, since competency for action is the definition of real thing. Other objects are sdmänyalaknana,-such is the object of inference ".

    The Nydyabtndutika (p 15 1 18) explains. soam asddhalrapam lakfanam tattvain svalakịanam vastuno hy asddbdranam ca tattvam asts tämänyah ca yad asddhärañām tat pratyakeagrahyam "spalakqana means ' own unique character or baing.' For a reality has a nuque being, and it has also a common character. The unique character is the object (grahya) in the case of perception ".

    Dharmottars goes on to say that the object (vigaya) of a pramerpa is twofold : otther the object of apprehension (graluya)-described by the phrase yadakaram utpadyate-that in the 'form' of which knowledge erisea (?)

[^101]:    ${ }^{1}$ NK P 190 1. 20 soalakpaqadeds purupam pravartayati saboddayaty ca.

[^102]:    Nor the distinction between the grahya, on the one hand, and the adhyavaseya or prapaniya or pravptticrsaya, on the other hand, see NBT p 15120 to p 1617 reforred to above, note 8 p .121 (That passage only makes a twofold dustunction in objects (cspaya), whereas Srīdhara makes It threefold here by distingushing the adhyavaseya of the vikalpa from the pravpttiviraya) The dificulty is that the doctrine of the momentariness of the real destroys the unity of the object (visayaikatd). Having deatroyed it, the Buddhist caste about for some way of restoring it-for practical purposes.

    The Buddhist admits resemblance (sddffya) though he denies sadmanya.

    The queation is (as we should put it)-what is the relation between the previous mpression, the mere rdes, and the subsequent impression? Not numerical identity-ill are momentary, and the one has dusappeared before the other begins to be. But a sort of likemees.

[^103]:    ${ }^{1}$ Like memory, which on this ground is refused the name of pramona in the Indian schools. The origmal experience is the instrument of know-ledge-not the memory, which only repeats the origindl experience. So with 'ideas ' (in the Humian aense),-they only repeet ' impressions ', and are not therefore an independent instrument of knowledge. The ides only apprebends over agein what has been apprehended in mpression.
    'soalakgane in thrs compound cannot be taken as the object of prapakataya, becavse inference never grasps the svalakgape, its object being always sämünyalakgana-see Nydyabindu p. 108 1. 18 anyat sämanyalaksañam. so 'numãnasya orpayab
    ${ }^{\text {'Poussin, op. at }} \mathbf{p} 78$ note 46, obsarvee that the dootrine of apoha, "Is non-compstibilité avec ce qui est autre", is inseparable from the theory of svalakpana He citee from Atmatattvavivoka 48. 8, a definition-yaa oütyantavilakłanainäm salakkanyavyavahdrahetus. tad anyavydvitirippam" exclusion of what is other is the ground of the practical notion of sameness of character in things which are absolntely diverse in character " According to the Bauddha'saroam prthak'-the stomistic principle which finds expression in the doctrine of soalaksana or kyapa-there cannot be any nositive resemblance in resls $A$ cow is like a oow in virue of what both are not

[^104]:    ${ }^{1}$ dhãrävahskabuddhs Fsddegon explains - " streamlike intellection, 1 e . saries of intellections, all referring to one object, and arising when our attention remaing fixed upon a certam object for a cartain time ".
    ${ }^{\text {si.e. of ourse, oikalpa in the specisl sense of 'the work of the }}$ understanding' in constituting the object of 'quslified 'perception (that is. of the perceptual judgment).

[^105]:    ${ }^{1}$ But it occurs when another organ than that which would give the ' oikalpa' in questron is in contact with the object, e.g. I ses the fragrant asndsl The eye cannot see the fragrance though the fragrance as thus belonging to a perceived object is not a free idea but ' sense-bound and sensesustaned'. (Ward, Psychological Princtples, p 186) This asse is recog mesed as a form of alauktkasamnskarfa ( 1 e 'contact ' in other than the ususl sense) under the name piannalakşanappatydsatts, in the later schools the example being that given above of the fragrant asndal (surabhy candanam). Cf. Ward, op ett, p. 168 " The manner in which the constituent elementa of a percept are combined differs materially from what is atrictly to be called the 'sasocistion of ideas. To reshase thas difference we need only to observe first how the aight of a suit of polished srmour, for example, instantly remstates and steadily maintains all that we retain of former sensations of its hardness and smoothness and coldness, and then to obsarve next how this same sight gradually calle up idess now of tournaments, now of arpsedes" etc.
    ${ }^{3}$ The importance here given to words is surprismg. We might beprepared to admit that judgment-holding subject and predicate apart-is dependent on the use of words, 10 that judgment is inseparable from proposition. But judgment is perhsps a stage beyond qualified perception', acoskalpakajulinc. An opponent has pointed out (NK p 1891 15) thst thesotions of brutes incapable of language imply qualified perception of objects (Sabdavyutpattsrahitaräm api taraicaim arihavikalpat pravfttih), and hae mainiained on this ground that all perception is in fact 'qualified perception'. Sridhara fails to answer this difficulty.
    ${ }^{4}$ In which case it would not be a pramana. See note 1 p. 195 supra.

[^106]:    ${ }^{1}$ The thought-determination occars (other conditions being fulfilled) when organ and object are present, and does not occur when etther is sbsent Sumilsrly it occurs (the other conditions being present) when the memory of the word is present, and does not oceur when the memory 18 sbsent
     yodi sahakā̀tıo bhavasyätulayà̀ na janayantı nâpeknaniyă aktmetkaratodf " unless the so-called auxiliaries produce some additional character in the (principal) cause itself, they need not be taken into acconnt, because they affect nothing ". See the following note

    Bridhars's discussion which has been given above is not a very profitable prece of scholasticism I give it for want of an earliar (and better) treatment of this topic.

    The Buddhust argument in support of the doctrine that sll things are momentary is stated in the Sarvadardanasamgraha, chapter on the Bauddhae (the section corresponding to pp 16-20 of Gough's translation). It is slso expounded in the pair of trecte by Ratnakirti entitled kpanabhangastddhs, which aro meluded in Hara Prasad Sästri's Six Buddhisi Nyäya Tracts in Sanekrit (One of these tracts sets out the positive and the other the negative argument.) The Naigayika reply in given by Sridhsra NR pp. 73--89 (Faddegon analyses this pasgage pp. 598-5, and translates it pp $\mathbf{3 8 4}$ 408) The context in which Sridhara refutes the theory of momentanness is the atmansr\&pana or exposition of soul se the permanent subject of ex perience.

[^107]:    The Buddhist starts by identufying exintence with cansel efflency (arthakruyaikärstva) He then exposes the sntmonies of the concept of csusation in a manner similar to that, of F. H. Bradley in Appearance and Reality, arguing that a permanent entity is moconsistent with producticn of effects-kramakramavyäoftto akqanikat sattvavydertich, " a permanent entity cannot exist becanse its various effects cannot be produced either suocessively or sumultaneously" (SDS loc. at.). Not simultaneously : becanse if it could produce all its effects at once it would do so, sid wonld produce them as much at one time as at another,-unleas you suppose that having dascharged itself of all its efficacy once and for all it retains an altogether impotent aort of 'pormanency" theresfter; which would be like looking for a crop from the grain that the mice have esten (sthāyitvacfttycid mapikabhakgitabijadso ankurajaranapratrthanäm anuharet. SDS). Nor yet succossively: for what can produce an effect does sc forthwith-samarthasya kfopayogat " postponement beng out of question in the case of what has the capacity" (this phrase occurs in SDS loc. att, and in NK p. 73128 Pouseln p. 64 note 24 renders "il ne convient pas que celur qui eat capable d'un acte le duffere" and refers to NVT p 888118 and 27 and p. 889 1. 8, where the eame phrame is twice repested. It is the stereotyped formula which sums up the dratectical attack on permanent causes). And conversely what does not produce an. effect is incapable of producing it. In virtue of these two principles (called the prasanga and the prasangavtparyaya) it is clear that the supposed permanent entity poseesses two contradictory properties for it both has, and has not, the cspacity to produce ite effects it has the capacity, in so far as it is now producing its (present) effect, sind it has not the capacity, in so far as it is not now producing $2 t \mathrm{~s}$ (past and future) effects.

    It is at this stage in the discussion that the Nasyadyika brings in the notion of auxiliary conditions (sahakärtn, which Possain renders co-factour). nanu kramavat sahakärilăbhat athäyinah (sic) atitunägatayoh krameţa karanam (Poussin, for textual kramonam) upapadyate-" the successive production of past and future effects by the permanent entity 22 possible as the result of its geting auxilaries in succession ". The Baddhist saks * does the suxiliary render any service (upakdra) to the entity or not? If not, we may disregard them, ss, doug nothing, thoy cannot serve ita parposenäpeksaniyäs te, akthert kurvataih towäm tadarthydyogãt (this is the resding of the 1902 Bombsy text, confirming Poussin's conjecture for tddatmyayogdt). But if they do give any assistance, does the sasastance remsin something distunct from the entity, or not? If it remains something destsnot, then it is this something distuct from the permanent entity that 18 the cause of the effect-since the effect is present when this adventitions addrtament (agantukdtsfays) is present, snd sbsent when it is absent. (Even in the light of Poussin's rendering, p. 66, I cannot understand the citation in the SDS at this point. Googh mastransiates 1t) But the Naiydyika holds that it is the permanent entity, in conjunction with the suxilisries that produces the effect. and so ${ }^{2 t}$ is from the nature of the thing (svabhidoa) that the effect arises. It will howover be no easy matter for the permanent entity to grapple these 'edventrions additaments' to itself (au it must do to produce its effecta)-since (by hypothesis) it does not depart from itw own nature (rovebhdvasyänapāyat). "It must not let its sumliarion go-it must hold them with a noces roond their neck even as they are making off, in order to-

[^108]:    there is the derivative quality of atanding in that relationship, the derivative relationship between the substance and that quality, and no on agan without ond ". McTaggart however adds that these mfinite saries are not vicious, because it is not necessary to complete them in order to determine the meaning of the eariser terms ] (c) In the same way the seed takes on snother oharacteristic in virtue of its being related to the aervice rendered (evam apekqyamą̣anopakdrena bijädau dharminy upakarāntaram adheyam) and so there arisea a third regress resulting from the series of additaments having as their substrate the addrtament to the seed imposed by the service rendered (upakäradheyabijātısayā́rayatisayaparamparat trtiydnavastha).

    Thus both horns of the dilemma (arnsing from the first main alternative, called by Vacaspati 'bhinnopakāradhana', 18 . that the addition made by the suxiliaries is something distinot from the causal entity or primary cause' lead to impossible consequences We now pass to the second main alternative, that the addition 18 not something distinet,-abhinnopakärädhäna (NVT p. 888 1. 21 and 1. 24 uses both these terms;

    If the service rendered by the auxiliary is not distunct from that to which it is rendered then the latter, the supposed permanent causal entity, cesses to exist, and in replaced by a new entity, viz, the cansal entity pius the sdded quality. The ongmal $A$ has been replaced by an $A x$ But this is inst What the Rrddhist msintains in his doctrme of the kurvadripa, the immediate momentary sntecedent of the effect That 18, the admission that the additsment forms part of the supposed permanent entity when added to $1 t$, amonnts to the admission that thera no permanent entity. Q E. D.-phalitam mamapi manorathadremenal "the tree of my desire has borne ite fruit"
    ${ }^{1}{ }^{1} N K$ p 198 I1 4-6
    ${ }^{*} N K \quad \mathrm{p} 103$ il 17-18 svam pratitir. . visiviagrahini ma kalpand, otsespanasya vifesyasya ca tayoh sambandhasya ca vyacacehedya-vyavacchedaka-bhavasya odetavatiodt The reality of the 'relation'bam

[^109]:    spoken of 18 of course fundsmental. And I do not know that the $N y$ yäfaVaifeqikg whool have any astisfactory mocount of it to offer. The doctrine of the real universal is not a complete solution.
    ${ }^{1}$ yath $b \mathrm{bhit}$ to 'rthah, tathopajayate, 10 it should be an immediste im pression in point-to-point correspondence whth the resility or srchetype.
    ${ }^{4} N K$ p. 188 il. 19-84 An observed in B note just preceding, orir school hardly deals with this dufficulty unlees we can find a solution in the Vabeepika dootrine of categoriea. I do not think we can.
    ${ }^{4}$ PBh pp. $811-814$ See also sbrd p. 11 and $p .19$.
    ${ }^{4}$ Gee Pragmenta from Dithdaga, fragment Q.
    *Th, PSPM, pp. 94-101.
    ${ }^{\circ} N S$ II. ii. $85-71$.

[^110]:    ${ }^{1}$ Greek influence could be suspected, but there 18 nothing to prove it

    Reference to the Vaufesika doctrine of the eternity of the oniversal is clear (eg) in NS II in 15 na , ahatabhionadmanvanstuatodn nutyone apy antipavad upacdrac oa The prevous ogitre bas taught that sound is nonoternal because it is an object of sense-perception This siltra objects that universals are objects of sense-perception and yet are eternal
    ${ }^{n}$ No specific argoment is given that it is not substance. But this follows as a corollary for if it were a sahstance we shonld have the abaurd consequence that substance reaides in sctions and quahties-the reverse of which is the truth.
    "tamanyacsiepabhdoenc oa This same formula 18 repented in silitras 12, 14 and 16 as a proof of the reslity of the mbordinste universals 'berng smbstance', 'being quality', and 'being action'. Universais do not reaide in univeruals, but only in substances qualities, and actions ihis

[^111]:    wes the constant doctrine of the school and it led to the awkward consequence that 'Being ', as a miversal, is not predusble of universals themselves.
    ${ }^{1}$ sad itt lingēvudeqād videacingadbhavac casko bhdvah I. u 17
    "stena gupatve bhave ce sarvendryam oyakhyatam. "By this it is explained that there 18 knowledge of the unversals ' being quality' and 'being ' through all sense-organs". It is not clear why only these two universals are mentioned presumably dravyatioa and karmatioa are thought of as implied At any rate the statement must spply to them also.
    ${ }^{\text {r }}$ But it mrat have been a doctrine of the school before Pragastapida, since (as stated sbove, p. 188 n .1 1) it 18 referred to in the $N y d y a$ Saitra and it is imposmble thst the Nyaya Sitra should have been redscted after the date of Prabastapids.
    ${ }^{4}$ Cowhood is preeent in all cows.
    ${ }^{4}$ Because the essence whereby it reardes $m$ one cow is the identical essence whereby it resides in another cow, there being no difference in the conception of cow-niture in differemt casees.
    'If you any that it in impoasible for one thing to reesde in many, the answer is that impossibility cannot be asserted of a thing which is established by a vald mesna of oognition-in thas case, by perception. *es hi pramäpavagate 'rthe kderd anupapattır näma. NK p. 818 1. 6. Expenence showi cowhood resident in many cows.

[^112]:    'anuvitts, anugama, ete, are troubleanme to translate The dos is that of the one in the many, one natare running through many maviduals, to which sll conform 'Inclusion' is not an accurate rendering, but practichlly convenient.
    ${ }^{2}$ This passage (or something similar) is referred to by Uddyotakars m NV p. 8101 16. See sbove, p. 28 n. 8

[^113]:     karmabhyo " thantarash actid.

[^114]:    ${ }^{1}$ tasmãt sattd samanyam eva He seems to combine two thoughta here (a) that sattasamanya is a resity, and (b) that it is only sdmanya, never visega-i.e that it is the Summum Genus-a stated in VS I 114

[^115]:    attäaāmänya, the unverssl 'Being' The use of this term to denote the objects of slocanamätra, bare intmition, in the section on perception in the Bhäsya, constitutes one of the difficulties of that section We know that rome held the view that the object of nirvikalpakafnana (=Alocanamãtra) was sumply 'Being ' And Aridhara tells us that Pragastapada meant that not nerely sämänya but also víię̣a was apprehended in 'bare intuition' That is, 'bere intuition' spprehends universals of all sorts,-not oniy ' Being ', but also ' being substance ', 'being quality', etc
    ( All sorts of unversals' 18 of course a phrase condemned by the sustra each nniverssl has soaripasattd, and we msy not class them. Bat even Praß́astapãds says sāmänyarh dviosdham I)
    ${ }^{1}$ For brevity $I$ omit eight lmes of the text, which show, in the same way, that the same thing is true of all subordinate universals.
    ${ }^{2}$ soádrayaviéesakatodd bhaktya vsfasākhyänt On this see the last note but one.
    "Sridhara says "If un'verspls were iden'ical with substancen, etc., they would per'sh on the destruction of the substance, otc, and would come into being with ats origination But as they are different, thus rule does not hold ". NK p. 315 I 6 For the 'difference in character', see the definition of the universal with which the present passage of the Bhd\&yg opens. Eternity was not mantioned in the definition, no doubt because Irafestapida intended to treat it as a corollary from the definition
    ${ }^{4}$ Some universals resude in substances, others in qualities, and so on : and this determinate choice of substrates shows difference in the universalis themselves. $N K$ p. 316 I 20.

[^116]:    ${ }^{1}$ pratyokath soddrayeşu lakfandvidę̨āl viteçalakfanā̈bhävāc catkatoam.

    Compare VS I. $11 \quad 17$ sad sta lingaviesesad viéequlingäbhävāc caskn bhdvah. Pradastapida makes the ingignificant change of linga into laksana in quoting. The more important modification which he introdnces is in the spplication of the formula, which in the sittra is used to eatablish the unity of satta, Being, only, whereas Prabestapteda neses it to prove the unity of cesry univerual. The result of this modrfication 18 that the second phrase in the formula, visesalakpandbhädt, cesses to have any distunct meaning. Bridhars tries to give it a distinctive mesining by interpreting lakpana (in the second phrase) as pramdza-i" there in no means of proving difference ".
    ${ }^{2}$ i.e. becsuse a unverssl only shows itself in a particular kind of thing, and because things of that particular kind do not come into oxistance at random, but under fixed caussl conditions. Sridhara glosses the first phrase by abhoyafjakasya avayavasatheth inaviespasya nsyatatodi-because the apecial collocsition of parts which manifests the universal is fixed by rule.
    ${ }^{1}$ Bhdeya, p. 19, 1. 1.

[^117]:    ${ }^{2}$ At a later tume Cdayana formulated the six Jutibdidhaka, or impediments to universility, in a couplet which became the current conn of the schools oyakter abhedah, tulyatoan', samkaro, 'thanavasthitsh, ripahdner, asambandho, jattbdidhakasamigrahah
    (i) A class must include more than one thong, so that there can, for untance, be no class-natare of ether (akafatoa) -
    (si) the same thing under different names will not give rise to a classnotion, e.g fath, candra, ordhu sre three names for the moon, but do not indicate s class-natare 'moon-nees '.
    (ui) the bhatadravya's are earth, wator, fire, air, and ether, whila the mirtadravya's are earth, water, fire, sur, and mind-therefore there would be 'confusion' if mirtatea and bhatatea were admanya.
    (si) maivarsala (sAmannya) do not inply a class-nature 'anivarsal-hood' (āmanyatoa), because thus would involve infinte regress:

[^118]:    (c) ultumate differences (orsesa) heve no common nature (oifepatva) for they would then forego their own nature, since ultimate differences can have nothing in common
    (vi) finally, inherence (samadaya) cannot have mherence-ness readdent in it, because there is no relation svailable by which such 'residence' could be explained,-for the aupposition that inherence-ness resides in inherence by fnherence involves infinite regress

    This arbitrary himitation of 'resl unversals' has parallels in Greek thought. Socrstes protested against it.
    ${ }^{2}$ Keith, ILA, p. 198, foo nd ${ }^{+}$e, says that VS I ii 8 is *badly explaned awsy' in this passage as meaning that the existence of universals 14 proved by thought He thinks that the sfitra's do not teach a resinstic Fiew of the universal. But Prasastapada, who certainly does msintam what Keith himself cells a 'rigid realism ', nses this phrase buddhalakpana And hie cah only have meant what Bridhara says he mesnt As to the meaning of the allta I. n. 8, see sbove, p. 188.

[^119]:    ${ }^{\text {'phand }}$, alritasaithbandha, änantarya, piyoga, ekakärya, birodha, atıíaya; praptı.
     dharma. (Vitsyayans takes sambandha, in the compound afrayafritasambandha, as a separste head=relation, as a person living with the teacher reminds you of the teacher himself. This is arbitrary. I have followed Fitaydyans's interpretation and used his sllustrations in other casea; but he may have mininterpreted the meaning of the fetra in qome caqes here)

[^120]:    ${ }^{1}$ Faddegon, 78, pp. 296 and 800 , gives the following list of offrs's bearing on miference II. i. $8-10$ and $15-17$; III. i. $8-18$; III. ii. 6-8; and IX. 1, 1.8 and 4.

[^121]:    ${ }^{3} N S$ I. 1.84.

[^122]:    ${ }^{2}$ Page 10 I 12 Kumãrila objects. "The division of inference into two knods is imposasible, benanse the connection between reaching a place and movernent is reen by perception, no leas than the connection between smoke and fire. It may be sald that there is no perception of this connection th the sun bnt neither is there perception of the connection between smoke and fire in the hill" Prahastapida's distinction, referrod to below, takes the force out of thas objection

[^123]:    ${ }^{1}$ It is also given in Vyäsa bhãqua on YS I 7, thongh the two k'nds of inference are not there distinguished, and by Gaudapāda in his comment on the Sämblyya Kärıkă, as an example of sämänyatodjsṭa inference
    ${ }^{3}$ Compare VS II. 1 9-17 ,
    closely parallel, and certain aitras
    compared with III in 6-8 That the passages nave expicit reterence to ona another is clear from III u 5 Both paesages note that the conchusion 1 indeterminate, avifesa (Kumărils remarks that in that case the process 1 not inference-anumāna, but implication-arthäpatt $w h i c h \quad i s$ an acutc and on his niew of inference just, observation)

    The difficulty sbout the apprehenaion of wind ( $\bar{a}_{y^{\prime \prime}}$ ) for the Vassestkt is that it has not udbhata-ripa, 'manifest colour'. A substance like eart] 18 considered to be perceived becanse in addition to its specific property o odour it is slso visible. But when a substance has no ndbhäta-rupa, it 1 held that the subatance, ss such, is not perceived, but has to be inferred fron its peculiar property.

[^124]:    ${ }^{1}$ It is becanse Locke has the arme abatract notion of the substrate se a something-he-knows-not-what that he finda it possible to suggest that after all God might have " superadiled to matter a faculty of thinking" (Essay Concerning Human understandrny, TV in 6) The Nyãya-silfra therefore argnes from the spertic nature of paychical qualities to a spectfic substrate, soul Ste NS III if 58 ff
    "henacıd arthena hingasya sümünyāt "from the likeness of the Mark to something ". But samānyät shonld perhaps be translated 'from the Mark's community of nature with acinething elae ' For deare, etc, are not merely like qualities They are qualities Yet they are qualities of so unique a kind that, to use J'rakastapada's enlightening phrase, we may aay there is atyantajatibiseda, complete difference of kind, between them and those phystcal qualities on the relation of which to (physical) sobstance the inference *s grounded

[^125]:    ${ }^{24}$ NBh p. 1916 (on NS I. 1. 5 ).

[^126]:    'Keith $J L A \mathrm{p} 90$ considers that $N S$ ]I 137 - 8 must be regariled as giving three mastances of mference correspondmg to the three thies of inference enumerated in $N S$ I , 5 if than be so, two of the thece illustrations of mference uhich Vàtusāvaus reads into the somewhat errptic utierance (f the Suitrahära do not eorrespond with the allinstrations of the three trpes which he has given at I 15 and it in not easy to bring what he savs here mo line with what he asad there The three matancon here given are (1) the inference that it has ramed frmm the flooded river. (2) the inference that it will rain from the ants ramming sbout with therr eagn, (3) the inference that there is a peaconk in the jungle, from the peacock-like ncroum (Keith follows latar commentators interpretmg this last as inference of the coming of rair from the peacockn' crics) If the last is intended as a casc of kdmãnyato difta, then the meaning of this phrase has lost lis distmetivences it would mean simply inference from resemblance.

    The thurd example of aämänyato dresta given bv Gandapā̀da in lue comment on the Sämikhya Kärhā has a sumilar want of distinctivencess, viz. the inference that becsine the mango-trees are in bloon here, they must be in bloom elsewhere
    ${ }^{2}$ NS III u 40-parisenēd yatholtahetipapatted ca Vâtryăyana orr thrs cites the same formula or pdiya whel he cited on I, ; to explaw sesarat -

    - "prasahtapratısedlie anyatıäpraỉanqär elhsyamāne sampratyayab"" if yon deny various possibilities, and there is no posabibity any where else, you must come in conclasion to the remaining posisibl ty "
    We have proved that consciousness cannot belong to the five maternel: elements nor to manas there is no oticer substance except atman, soul therefore it must belong to soul

[^127]:    ${ }^{1}$ This is not further explained by Vatsyăyana, but he is quite well aware that it is different from the infenrace to the existence of the soul from psychical qualities And, as has been said above $p$ 1an, he gives the letter as an illustration of a different explanation of samänyato dr\&̧̊a, which he snalyses carefully.

    The present explanation of aämănyato drxfa agrees with Sabara's, an 1 with Prafisatapäds's, and is a natural development from the older view as tound in the Vaidegika-sütra For a further account of is ase the following paragraphs, pp 168-159

    The difference between the two views may he expressed sy baying that the adrita-linga of the Vaiferika-sitita is an inference abont an unknown minor-apratyakfe lingalingınol sambandhe while the sämänyatodrifa of Babara and Prabsatapeda is an inference to a reatively novel major.

[^128]:    ${ }^{1} L e$ Museon NS vol $v 1904$ "Comme toufours Prasastapdda a masqud son omprunt on changeant les termes " (p 140 footnote) Keith ILA n 10K

[^129]:    ${ }^{1} N V$ p 56 1. 14 Väcaspati ad loc (NVT p 120 1, 8) does not sttribute this to Dinnags but the attribution is implied at p. 127 L .1 and agsin 12 Bee Dinnugga, Fragment G.
    ${ }^{2} \mathrm{p} 10111$ in the Bibl. Ind edition, 1889

[^130]:    ${ }^{1}$ It is usnally called tetinam lingapianam,-the first being the previous experiencea of the 'Mark' wheh lead to apprehension of the universal conns-' tion (vy/aptí), the second being the pahsadharmatājuana and the third the luhgaparãmaria. See Tarkabhâsd p. 42 (Pandit Reprint)
    ${ }^{3}$ On the interpretation of this pasasge, see below, pp 170-172
    'See the Tarkabhāßd p 38 f. The Nyäyapradipa comment $p$ y statea the wiewn of the Vartikakära, of the Tattoaentämani, and cf Udayana and on $p 42$ refors to the present passage of the Nydyakamiati.

[^131]:    Frasastapads's illustrations are not all favourable to his point, fois ib is easy to read the causal relstion into some of them Later logic manuab give the illustration of inferring colour or form from taste-prasimably as when tasting a fruit in the dark TB comm p 88 -iddatmyatadrtpatt, bhydm coävinäbhava tit saugatamatam tan na rasädina raipadyannntünasya sakalajanasuddhatoăt. na hy anayoh käryakäranabhàoo nu ou tadatmyam th.

[^132]:    'Sridhara has a long egression on this controversy, $\mathrm{N}^{\prime} K$ pp 206-210. The passage ie translated by Faddegon, pp. 158 - 165 See also Sarvadar sanasamgraha, chapter on the Banddhas, first page Both Aridhara and Madhavicarya take as the text for the discuselion the often-cited couplet from Dharmakirts -
    käryakāranabhā̀ād vā svabhävād oà nıydamakät avinābhãvansyamo 'daráanän na na daráanāt.
    ${ }^{2}$ Kerth ILA p 95 tootnote 2 " Jacobl (NGWG 1901 p 481) and Sush (Intr, p 417) render prasiddhasadhyayoh as referring to the subject and the exsmple, but this is contrary to the analogy of samanyato digta 14 the Nydya of apratyakse lingalinginoh sambandhe NBh p 14" Keth renders " when the middle term and the conclusion are not heterogeneous". But the context here shows that Jscobi snd Sush are right The phrase ou the Nyayabhäqya is used in connection with a different interpretation of samanyato dryta Bridhara explsins: prasiddhath yat puirvam lingena aha drsfam, sudhyam yat sampraty anumeyam 1 e prasiddha $=\mathrm{P}$ as experiencea in XP, the example sdihya $=\mathrm{P}$ as to be proved in 8 P , the pakx...
    ${ }^{3}$ The ecw-hood which is to be proved (sidhya) is preaisely similar to the cow-hood as experienced in the cowe which constitute the exsmple or sapakga (prastddha). As Bridhars puta 16 : gotvajatioifutdyam eva govyaktau sämopalabdhyd sampraty apı gotvajatipisuptayäm eva govyaktor anumanam. (NK p. 818 1. 7).-The example is that given of the drata lihga in $V S \mathrm{II}$. L. 8.

[^133]:    ${ }^{1}$ The meaning in that the partirtiar form in which the P han been experienced (prasiddha) is different from the particular form in which $P$ is to be proved (sädihya) $\mathcal{P}$ in the after form has never been experienced with $M$

[^134]:    ${ }^{1}$ Ketth ILA pp 106-7 " Yet a further prof of the dependence of Prakastapäds on Dminage may be derivea from the fact that the distanction of reasoring fur oneself and reasoning for another is present in Dinnāga, and is expressly stated ( $N B T$ pp 46-7) to have been introduced by him

    Praśastapăda's debt to Dinnăga in thas regard is clear, despite his slight change in terminslogy (soanidcitärtha for svärtha), which msy legitımately be attributed to a desire to conceal his borrowing, for he retains in practice, if not in theory, verbal testimony as a separate means of proof, while adopting the principle of distinction between reasoning for oneaelf and ressoning for snother, which in truth rests on the fact that verbal testimony is no true means of proof at all "' (I find no such statement in NBT pp 46-7. The reference is perhsps wrong )

    I have deltberstely rendered soanikictärtham in what seems to me a wrong way here, making it identical in meaning with svärtha. But it ghould probably be " inference in which the object or conclusion is established (inferred) by oneself ".
    ${ }^{2} N V$ p 189 1. 14 The criticism is etasmin avayavatraye evamhlahanonopapadite tesaft trayo durpibhavăh. NVT ad loc p 203 (last two lines)
     fanenety uktam See Fragments from Dinnaga, section 13

[^135]:    'Kerth. ILA, pp 107-108
    ${ }^{2}$ Vulyabbhtigang points out that Nagrads is doseribent in the Mahabharata (sablaaparnan, 5 1. 5) as one who nnderstood the characters whinh make the stateruent endowed with five members valid, and the characters which make it invalid-vaficävafjavayuhlasya oükyarya, gunadoavet. HIL n 498 This is certanly a reference to the 'nydya' as formulated in the Nyaya Satra.
    ${ }^{3}$ NBh p. 5 1. 5
    ${ }^{4}$ NBh $p \quad 991$ dafävayavãn eke nasyãytha vähye samoakfate, fyfidsā samikayah sahyaprāptih prayojanam samajavapudãa it!
    *So Kerth rendera the doubtful term sakyaprdpts, ILA p. 86 Jrs (transl, I. 816) renders 'capacity to accomplish what is desired',

[^136]:    ${ }^{1}$ Saihalaya figures also in the lasts of the 'tantranukti's' The sixteen 'categories ' of the $N$ jaya are no more than the 'tanfrayuhti's' if that system
    ${ }^{3} N B h$ rn NS I 132
    ${ }^{\text {'In many contexts (as here) artha can bo rendered ' conclnsion' }}$ Cf. soantscit̄irtham anumānam $=8$ n inference in which the conclusion s inferred bv onemelf.
    ${ }^{4}$ Vidyäbhaspana HIL p. $166=$ MSIL pp 6-8 The ten-membered syllogism spoken of by Vatayayana is quite different from this

    The Kathavatthu nseq certsin technicpl termq auch an niggaha, patıñfa. upanaya, nuggamana, opamma • but not ss the Nytupa dees

[^137]:    ${ }^{1}$ lingadarsana or pahsadharmata, and vyäptımarana. But Uddyotaksra followed by the later schocl, edda parämaría, 1 e. the realisation that S is M-which-1s-P, as a sort of third premise, expressive of the unity of the other two factors, and immedistely causing the inferential knowledge that 8 is P Thus a function is found for the upanaya, ss the expression of this parómarźa.
    ${ }^{3}$ See section 3 infra pp 167 ff for the Indian syllogiem and its mernbers.

[^138]:    ${ }^{1}$ NBh. p 311 14-17 He adds, yat pınar anumãnam pratyaḩ̧agamavtruddhah, nyäyäbhasah sa.
    ${ }^{2} N B h$ p. $5 \| 1$ to 5 tenu (nc avayaveģu) pramānanamavāta dgamah pratajñe, hetur anumānam, uddharanam pratyaknam, upanayanam upamänam narvepam okärthanamavāye sāmarthyapradarkanam nigamanam tte so 'yavit paramo nyáya tfı. (There should be a stop sfter pramänasamavāyaļ, and no samdht)
    ${ }^{2}$ NBh. p $44 \mathrm{If} 10-16$, on NS I 189 Dr. Jhe's translation of this passage is misleading He takes nambhavas tavat sabdaorqayā pratyñ̄a as one clanse-" in the inference bearing on sound the Proposition "sound is non-eternal' comes under 'Probsbility '" This is impossible, seemg that the Nayiyika did not admit aambhava to be a pramazpa.

[^139]:    ${ }^{1}$ See Note on the Indian Syllogism, in Mind, NS Vol. XXXIII, No. 182
    ${ }^{2}$ Carsks seems to be thinking of inference in the way in which these pasaages of the $N y d y a b h d s t / a$ think of the 'nydyc', when he sars that anumana se drftanto hetubhur yuktah. For he uses hetu in the sense of pramapra. But his sccount in that of the layman, and should not be taken too seriously. Carakasamhitd, vimánasthana, chap viil, p. 800.
    "Bo Faddegon characterisee the 'Indian Syllogism'. But the 'there fore' in the third statement here is entirely contrary to Indian conceptions which never trest induction' as an inference.

[^140]:    ${ }^{1}$ The evakdra is meant, says Sridhars, to exclnde the News of those who teach a two-membered vakya, and those who teach a three-membered odikya.

    His comment here embodiea a long digression on the controversy between the anvitibhidhdsavada and the abhihitanveyavdda, which is translated b; Faddegon pp. 498-484 See Jh玉, PSPM p. 68, who cites Cowell's note in SDS (cransl. p. 202).

[^141]:    'It seems best to give the renderings which have been used for the rorrespondıng Naıyayıka terms-pratignă, hetu, udaharana, upanaya, nigamana
    'anumeya. It has the usual double meaning-nerther $S$ nor $P$, but SP This 18 clearly stated in the next clause-the probandum is the Bubject, 8, qualified by the Property, P: or the sadhyadharmin qualified by the sädhyodharma
    ${ }^{3}$ The rest of the parsgraph deals with the Fallecious Propositions, and 18 translated below, p 216
    "anumeya. Here the meaning 18 doubtful, but I think it stands for sädhyadharmin, S , rather than for sädhyadharma, P See bolow, pp 185 If .
    "The partioular amoke on the hill is not present in the hearth : but smoke as anch, dhumatpene,-in its unversal nature-1s present
    'I cannot explain saroatra 'everywhere' ' the next clase states that M need not be found everywhere in XP, cases like S (sapakg̣a)
    $T_{1} e$. in the otpaksga $X$ non-P.
    "apadefa The word, ss it happens, is etymologically identical with the Greek apodeutrs and the Vaifeqika use of it has some resemblance to Ariatotle's use. It figures in the lista of tantrayukti's, but in different senses. Kautilys underatands by it merely 'ortation'-evam asdo aha ity apadedah. Suerrats gives it a meaning closer to Vaifequka usage anena kirapona sty apadetah, yathdpachsyate madhurona na sleqma "bhsoardhato-"apadefa consists in assigning, a oause, e.g 'by taking madhura the socumalation of phlegm is prevented " $"$.

[^142]:    ${ }^{2}$ Thus both forms of vald syllogism are exemplified-aapakpatkadesavftt, and sapaksavyäpaka see below, $p 188$
    ${ }^{2}$ See note 8 sbove, p. 188
    'anuvidhana means 'obedrence ', 'ecting conformably to ' Aridhara glosses by sädhyasädhanayor anugamah
    ${ }^{\text {a }}$ anumeja here clearly atands for sādhyadharma. P
    'The word drata is regularly used both by Vitaybyans and Pradastapāds in the formulation of the uddharana or nidarsana Ct drytinta and nidartana The word seems to underline the eppeel to experience,-an Vstayăysns does when he says pratyaknabrfayam udaharanam difitendifftand dheh' ${ }^{\text {² }}$

[^143]:    ${ }^{1}$ anumoya is here used in two different senses-first as $P$ and therr es S-in one and the name clane Similar cases of the ambiguous use of sädhya un a single clanse could be quoted from Vātsyãyana
    ${ }^{3}$ See note 5 on preceding page.
    "Prasastapada has a habit of, so to say, commenting on his own utterances, which sometimes leads one to suspect that he is citing and commenting on an earher 'värtika' Uddvotakara has this mannernam (if that is all it 18) in an even more marked form, so that in e.g. Dr. Jha's translation it will often be noticed that two consecutive sentences sey exactly the same thing. Bridhars says sooktam viornots

[^144]:    'This helpe to explain a nasage in Sridhara's comment on $P B /$ p 205 (NK p 2061112 to 16) He says there that in the case of inference for oneself the only factors necessary to the inferential knowledge of $\mathbf{P}$ are the experience of M , and the remembrance of the necessary connection between S and P -lingadarkanavyaptısmaranäbhyäm evänumeyapratziyupapattib it is objected (1) that this leaves no room for the "dvatiyalengaparamard $\sigma^{\prime \prime}$ " without which the thought of $P$ would not have reference to a particular tume and place, because the thought of $P$ (on this wiew) immedistely follows on the act of remembrance The snswer given is that the experience of the $M$ determines $P$ to a particular time and place (na ca smftyanantarabhävıteād anumeyapratītır anıyatadıgdex́ä syät, lmgadarianasya nıy/āmakatod̃t).

    It is further objected (2) that if parämaría plays no part in inference for onemelf, then the "Appheation' or fourth member of the " syllogism 'will have nothing to express, and so will be without a function The answer given is that, in the cass of inference for another the residence of M in A (paksadharmatea) bas not been set forth by the other members, snd that the application has the function of stating pahoadharmatea

    That 18, in the case of soärthänumana there is no need of a separate movement of thought corresponding to the statement that S is M -which is-P because the actual experience, here and now, of the M , determines the reference of M to the here-and-now S Bnt in the case of pardrthanumana, M is not experienced here and now (i e in S), but barely mentioned in the second momber Its application to $S$ must therefore be definitely atated-and this is done in the fourth member but as stated now, in the fourth member, it is a statement, not merely that $\mathrm{S}_{18} \mathrm{M}$, but that S is M-which-18-P

    The obscurity of the prsaage is partly due to the phrase dotifyalthgaparämaria In the later terminology dvitiyalingajinina is paksadharmatā, while the paramaría ${ }^{8}$ called trtijalingajfiana Sridhara (I think) refuses to make the distinction between pakiodharmata and pardmaria so thst the dvatiya- and $t_{f} t_{i j} a-p h a n a$ become identical for hum.

[^145]:    'Bridhara has dufficulty in explaining Prásatapāda's phrase anunueyadharmamatrateenabbhiluta (which clearly implies pah\&adharmatd) in auch a way as to smit his own sccount "Hetuvacanena lingam vastuoyãofttyãnumeye 'sty etávanmātratayä hetutvenabhihitam, na tu dharmim lavya sadbhavah kathitah" "By the Statement of the Beason the mark has beon mentioned as the reason only so far forth as it is in the probandum ( F in general, $n P$ ) to the exclusion of any particular thing its existence in the Bubject is not saserted " (He does not mean thst a vyäpts of $P$ with $M$ us asserted This is asserted in the nidardana, not in the apadesa He oupresaly ssys that the 'sidhanasya sämarthyam' can only be stated after the ' avarkpàvagats ').
    ${ }^{2}$ Vetayayans asys that the Reason or Second Member is the assertion of the probativeness of the reason, 1 e the assertion that the reason 18 a reason (sädhanatdvacanam hetul. NBh p 4111 on NS I. 134 . See below p 279 for his further comment in NBh p. 45). This seems to ignore the function of asserting thst S is M (pakşadharmatā) later assigned to the second member. And accordingly he seems to sssign this fnnction-not how over in the simple form of paksauliarmath, S is M ; , but in the elaborsted form of pardmaria. ' S is M-whuch-is-P ', to the Fourth Member or Appli-

[^146]:    It 18 impoesible to sey that just so many premises will produce understanding while just so many will fall to produce it, in any particular cabe-na ca pratipaidyasya kiyaty ange pratupatts asts ktyats ndatits fakyam avagantum, paracittavptter duru*neyatoat (NK p 268 1. 10) He quotes a sloka from an unidentified source to the effect thest the statement of mference must Collow the nature of the thing, and not the nature of the persons to whom it is eddrassed. We should probsbly express the same thing by ssying that the mumber of the premises is determined by logical and not by psychological treagona

[^147]:    ${ }^{1}$ Keth ILA p. 87 He ssys that the form of the Fourth Member was "originally presumsbly tathdyam "-1nstoad of tatha odyam. Both Vitsyajyana and Prafastapeds insert the ea in the Fourth Member and in the Third Member Vertayiyana does not use yatha, whle Prafastapide, though he bss a yatkd, does not use the yathd which would be corrolstive to tathe. ${ }^{3}$ Carakasawhitd, vimānasthdna, chapter vil (Calcutts 1877 p. 800).
    ${ }^{3}$ This is the 'sthdpand '. The pratuthdpand proves that " man 18 tranisitory becsuse be is an object of sense "-in precisely the same form.
    'That is to say 'yathd' was never an element in the Third Member. But it was always implied in the fourth

[^148]:    ${ }^{1}$ Keith ILA P 27
    ${ }^{1} 1$ e. the formulator of the tratrapya, whoever he may bave been. It seems to me that the conception of the trairipya is as important as the notion of 'universal connection' (avinäbhava),-the 'discovery' of wheh is sometmes represented as being the great achievement of Dionage or of Pradasfapida The trasrapya constitutes the Canons of Syllogism for Indas Logic. It would arise quite naturally out of the Vaseequa doctrine of fallectes, which preceded it in the evolution of logicsl theory The 'axat and 'anaikäntika' fallacies contain st any rate two of the Canons. by impliostion.
    'I sm not sure that it was a development in the right durection, however.
    ${ }^{4} N B h$ p 45 l. 2 on NS $I$ : 99 udaharanena samanosya mparitasya DI sddhyasya dharmaxya sddhakabhdvavacanam hotvarthah dharmayoh siddhyasddhenabhdeapradarfanam ekatrodaharandrthab

[^149]:    ${ }^{4}$ loc out $\quad 7$ avyavasthăpya khalu dharmayoh xädhyasddhanabhdivam wdāharane jătsoddi pratyavatiethate vyavasthite tu khalu dharmayoh sidhyasadhanabhāve dfatāte gThyamãne sadhanabhatasya dharmasya hetutvonopädänam, na södharmyamãtrasya na vaıdharmayamätrasya vā
    ${ }^{2}$ The explanstion of what might seem to be the disproportionste place assigned in the siltras to the discussion of sophistical arguments (gati. NS $\nabla$ i.-forty-three sitras) 18 that the Nydya is the assertion of logio agamst sophistical dialectic of the type watch farnished the armoury of tinnyadadins like Nagarjuna. Kerth's remark (ILA p 24) that "Năgirjuna's dislectic as mophistic was too much in harmony with the taste of Gautams not to attract his attention" 15, I think, misleading. Gantama devotes so much spsee to the sophist, not because he was in sympathy with sophistry, but becanse he hated it,-and becsuse it was at the time an urgent need to defeat the sophist How effective the Nasydytka's attack was, 15 perhsos evidenced by the fact that the finyavadg gave place to the vifilanavads. and that Buddhist logic adopted Nasyayka principles.

[^150]:    ${ }^{1} N V$ p 5812 NVT p 127 Vidyăbhişana HIL p. 288.
    "Nyalyabindu $p 104$ 1. 3. esapakea here takes the place of the nual mopaka. anumeya that of the unal term palsfa.

[^151]:    ${ }^{\text {I }}$ It is clear from Uddyotakars's criticusm that Dinniga read 'avadhatrapas' into his formuls, probably in virtue of the doctrine that words have argnificance through 'apoha', i.e. exclusion of all else If you say A in $B$, your real meaning may be that $A$ is not-not- $B_{i}-0 r$, if you prefer, that A is not-not $B$,-or again thet not-not A 18 B, or even that not-not A is not-not not-not B.

[^152]:    ${ }^{2} \mathrm{eg}$ Saroadardananamgraha, chapter on the Bauddha system, first page - Nydyakandatf p 207 1. 8 Tarkskaraktā p 82
    ${ }^{*}$ Vidyābhīsans $H I L$ p. 376 (footnote 5) identifies this conplet an from Dharmskirti's Pramăna-värtska-kărikd.
    ${ }^{1}$ Kusumaifigals III. 7. quoted in Saroadarfanasamgraha, loc cut
    ${ }^{4} N B h$. (on NS I. 1. 39) p. 4411.6 and 8. utpattudharmakam sthalyadi dravyam anityam sty uddharaṇam vardharmyokte 'pr [in the negstive Form of the argument] . . . anutpattsdharmakam dimads draoyam nutyant drotam. "Pots and other substances which have the character of being produced are non-eternal . . The soul and other substances wheb liave not the character of being produced are seen to be eternal"
    'yatra dhamas tatragnur, agnyabhave dhamo 'pi na bhavati. PBh p 203110
    "Where there 18 smoke there is fire-in the sbsence of fire smoke atwo is sbsent" . $M$ is $P$, snd non-P is non-M.
    fat prayatndnantariyakam tad anttyan dratam, yatha ghatak. . mityam apraydindnantariyakam drifah, yathakabam. "All that is the reenit

[^153]:    of volition 18 found to be non-eternal, like a jar
    the eternal is found not to be the result of volition, like ether,"
    ${ }^{1}$ We may take sädhya or anumeya as an ambiguous abbreristion for ether sddhyadharma (anumeyadharma) or iddhyadharmin (anumeyadharmen), in which case the ambiguty of the terms in an accident of language Or we may suppose that the ambiguity was an smbiguity of thonght natural to the earhest formulation of inforence, sud that this ambiguity was subsequently realised-and that then the distinction between the vädhyadharma and the sadhyadharmin was drawn The latter supposition seenis to be the trde one
    ${ }^{2}$ Indian Logic and Atomism, pp 187-8.
     Agsin p. 201 1. 28 "anumeyendrthena sadhyadharmopis".

[^154]:    ${ }^{\text {IThen }}$ The opposite of this argument is used by Vätayayane on NS I. i. 36 , where he points out the two senses which sddhya may have "sädhyam cur
     dharmi antyặ babda ttı". The sütra is sādhyasādharmyat taddharma. bhdoi duttānta udăharapam. Vātayāyana argues that sddhya here must mean sädhyadharmin, because tad denotes sadhya, and tad must mean sādhyadharmin in the phrase taddharmabhäof.

    Keith's argument 1s, I think, not conclusive, becsuse it depends on the presumption taat a term cannot be used in two senses at once. It In possible that the sense of anumeya was left, deliberately or not, indeterrounste in the first clanse In thst case the tad in the second claveswould have its sense fixed in one or other direction by the phrsse in which it occurs. If you use the phrsee tattulya-s8 Dimnäga did-then tad ${ }^{18}$ fixed in the sense of sadhyadharmin the phrase meaning 'homogeneous with the minor term [though Vidyäbhössna and Keith tranalate it, 'homogeneous. with the major term']. If however you prefer to use the phrsse tadandite in the second clanse, as Prasastapáda did, then your tad is determined as pointing to the sadhyadharma element in the flud term sddhya of the first clanse, and must be rendered 'endowed with the major term' But this coes not prove that Dinnāga's anumeyc in the first clanse meant minor term, and that Pradastapida's anumeya in the firat clause meant on the contrary major term They may both have left the meaning of anumeya flud in the first clause and the chotee of the uatterent phrases in the second clause may at most mindicate thas one etement on the flud meanung tended to predommate in Dinnăga'i mind, while the other element tended to prodominate in Prisastapids's mind But I do not think it indicates even this much.

    It should be mentioned in this connection that the first clause of Ditnağa's trairapya is always criticised by Uddyotakara as referring to paksadharmata Ths of coorse proves nothing as regsrds the sectual aneaning of Dinnaga Uddyotakara would naturally criticise Dinnägs in the light of the meanning which his later Buddhist followers read into their master's words. What however is of some intereat is the fact that sridhars answers the objection which Oddyotakara brings against Dnnaăga in this connection, of if it were a criticiem of Prabestaptida s.so See NK p. 200 124 f. lines 24.25 seems a quotation of Vartika D . 68 1. 6).

[^155]:    ${ }^{1} P B h$ p. $237116-18$.
    ${ }^{2} P B h \quad$ p. 201. 11. 18-20, cated and transiated by Kerth p 189.
    ${ }^{2}$ PBh p 205 l 10-14, p 287 ; $16 \mathrm{ff}, \mathrm{p} 946 \mathrm{Il} .15-16 ;$ p. 247 (ananugatandaríanäbhđéa 114 and 5 , and avyōprttansdarianabhasa 117 and 8); p 249 II 7-11
    ${ }^{4}$ I do not see bow it can be sasd that "the wording confirms the view that the first condition refers to the relation of middle tarm and msjor, not of middle term and subject the thing to be inferred ts the fire on the monntain, not the subject which is not a thing to be inferred, but a thing whose attribute is to be inferred from the mark". This interpretasion of anumayenarthena seems to me to beg the question. I cannot see that the addition of artha to anumeya makes any difference If Prasastapsida had wished to be clear he conld have sas dharmepa mstead of arthena.

[^156]:    ${ }^{2}$ The only addition made in this account is that the maddle need not be present in all sapakias -1 it is sufficient if some XP's sre found to be $M$ (in the terminology of our syllogism, although all $M$ must be $P$, it is not necessary that all $P_{\text {should be }}$ () Thas the list of Nine Types of Syllogism given in the Nyäyapravesa, and in the Pramänazamucoaya of Diñāga, contains two valid types, according as all XP's are M , or zome XP 's are $\mathbf{M}$ Prásastapads mentions this sgan, and gives as examples the two valhd argaments-

    Wind 28 substance
    Because it possesses movement, snd
    Wind is substance
    Because it porseanea qualities
    The lattor middle in present in all things homogeneons with the probsndum', i.e. all substances possess qualities. The former middle on the contrary is present in acme substances only, eg. dist, käla, and atma are reckoned as substances, but they are not capable of movement

[^157]:    ${ }^{1}$ gridhara sayg "aotndbhätam itt jnânam yasya ndett, tam prati dharmins dharmasydnvayavyatirekavato 'pi lingatoam na velyate'. NK p. 205 1. 7.

[^158]:    ${ }^{1}$ Jacobr, Indische Logic p. 481 Kerth ILA p 189, and 183. Faddegon, Vaiseşika System, p. 302. Faddegon notes that "Candrakāta Tarkalamkăa sphits up III 115 mino two aphorisms - aprasiddho 'napadesah snd asan samdigdhas carrapadesah" The addition of the last word (anapadedah) is - variant later than Prasastapada's time, sunce he dues not read it It was perbape added because the tradition of aphitting up the 'satra' into two siltras remsined - and, when thus splut np, Prafastapada's interpretation 13 no longer plausible
    ${ }^{3}$ But Prasisstapada p 238120 gives this as an example of viruddha. And this is a natural way to understand the example The 'asat' of the saltra may in fact $=$ the osruddha.

    I do not think that the Buitrakars recognises the 'assddha' class of fallacy at all His 'asat' means an argument in which the conclus.on (not the middle tarm) 'is not' just as his samdsgdha means an argument un which the conclusion (not the middle) is doubtful The exsmple given of 'asat' is clesily an example in which the probandum definitely is not, for what has horns is not a hores That is to sey it is a case of the viruddha or 'contradictory' reason

    Similariy the Nydyasūtra does not recognise the 'assddha' fallacy: nor doeq Vatsyajyans It begins to figure in Fráastanada The evidence then is that 'asiddha' is a relatively late concept This seems to (arry with it the implication that pakşadharmata was not emphasised in the earher logic * which again means that the first clause of the trasripya can hardly have meant for ats earhest formulatora precisely what later commentators understood it to mean, v.z, the requirement of 'pakpadharmata' that $M$ must reande in B -But if the first clause did not mean ihis, what dud it mean? I have argued above that it probably did not mean the requirement that 'sll M must be $P$ '. And there seems to be no other altarnative.

    Yet perhaps there is an alternative. If we remember how vague Vatrylyans is about the function of the hetu or second member of the syllogism, we may well expect a sumilar 'vagueneas in the meaning of the 'mumeys' sts or anumeyona sambaddham of the first clause in the trairupya. The formulator of the trasrlpya had not made up his mind about the ineaning of anumeya. It was not exactly 8 , and it was not exactly $P$. It dud not as 8 saclude the exsmples, XP's , nor was it sufficiently abstract, as $P$, to include them. It might bave developed the latter sense, had not the nudariaria usurped the function of stating the universsi concomitance. Precluded from developing this sense, it developed the other sense'anmmeya' becsme S and the first clanse of the trasripya became a requirement of pakşadharmata. I think we see the begtnnings of this in Prafasb rapleda but I think the conception wis atill floud, 1 e . that anumeya was noither quite definitely $\mathbf{S}$ nor quite defintely $\mathbf{P}$ for him.

[^159]:    ${ }^{1}$ Kerth, ILA, p 188 The smended reading of the suttra ${ }^{15}$ given in his footnote But his identification of asat with asiddha can be questioned. See preceding note.
    ${ }^{2} N K$ p. 2081 15-p. 204 1. 82.
    ${ }^{2} N K$ p 904 1. 17 atratke samdnatantraprastddhya keoaldnvaymal kevalavyatsreksnad ca parsgraha its vadants. apare tu samastavyastam laksanam oadant, etc The sppesl to the suster-fastra (the $N y d y a$, in this case) has on early precedent in NBh. p. 16 I. 9.

[^160]:    ${ }^{2}$ This imphes a considerable lapse of time between the date of Vatayayans and the first syatematisation of the Nydya. In his comment on I 119 he cites a conplet .-
    yasya yendrthasambandho darasthanyaps tasya sa
    arthato hy asamarthdnām önantaryam akdranam
    The meaning seems to be that when one word is connected by the sense with -another, the connection holds good even if the word 18 far off (in the order of the mentence), and that juxtaposition does not give meaning to words disconnected in aenue.

    If this entation could be identified it maght provide valuable evidence of Vatsyayans's date. It has not yet been identified.

[^161]:    'The wertern formslist would feel that the negative instance in puite irrelevant and consequently would say that the objection brought against the present srgument, on the ground that atoms sithough eternal are tangible, is altogether ont of place for the fact that some tangible things are eternal if perfectly consistent with the supposed major premise 'All intangible things are eternal', so far ss 'formal consiatency' is concerned There is really no point in examining non- $M^{\prime} \mathrm{B}^{\prime}$, cases where the middis is not found, from s merely formsl point of view : for even if you could prove that all non-M is $P$ It wonld not contradict the major All M is $P$. The relevent formal counter-instance will be case of non-P which $1 s \mathrm{M}$. Therefore it 18 relevant to examine non-P's (etpalfia) and if vou find that no non-P is ME (all non-P is non-M) you will hsve confirmed your positive msjor All Mis P , by eatablishing its obverse. This is the hne which VasfatifaBauddha logic took and in domg so it approached a formal standpont But the estiner Nasydyka school was concerned to examme cases of MI

[^162]:    (sddharmya) and cases of non-M (vasdharmya); not cases of P (sapakẹa) and casee of non-P ( P pakga) And if they fonnd that $M$ did not exten 3 to non-P (addharmyam na oyabhicarati) and that non-M did not extend to P (Dardharmyan na vyabhicarati) they were satiafied that $M$ was pro bative (sddhanabhita-dharma) with reference to $P$ They were not forma lists, but almed at eatablishing a real connection of $M$ and P. And for this purpose it 24 relevant to find that non-M is non-P and it 28 an objection to the theory that $M$ is connected with $P$ if we find a case of non-M which is $P$, i.e. In the present argument, if we find that stoms which are tangible (non-M) are nevertheless eternal ( $\mathbf{P}$ )
    'See the preceding footnote.
    'See p. 208 if and footnote to pege 204, infra.

[^163]:    ${ }^{2}$ See infra D. 212 with footnote

[^164]:    ${ }^{2}$ For the jatt wheh bears the same name see p 517 below. The prakarañàama-jats pretends to show that any argument whatevar merely 'ntarts the question' (prakaranash pravartayati), and therefore commite thr fallacy.

[^165]:    'This is pointed ont in the Vrtti on this seltre.

[^166]:    ${ }^{1}$ PBh pp. 238-9 It 18 a practical inconvennence of the distinction between svārthänumāna snd parärthānumäna that it tende to lead to a double trestment of the same topic nnder different heads

[^167]:    'The obvious cross-division here ts pounted out by Ariah hara, NK p. 240 al 16 \%
    ${ }^{2}$ The Mimatheaka who maintans the eternality of sound does not admit that it is a product.
    'Misunderstood by Vidyむbhúsape HIL p 298 and by Faddegon p 541.
    'NK p 240 ll 12-16. Bridhara expleans it as abrayderddlan "tame ndme drevyantarain ndstt, dropitanya kirsnyamatrasya, pratiteh'. The question is beggod when we say 'because it possesses' What possesses quasities is a substance. But the whole question is whether dartneas is a thung whych poseseses qualities. As Faddegon rightly says (p. 541) "The anumeya does, not exist in the form in which it is aupposed to exist in the argumentation". Darkness exists. but it dres not exist as a possessor of qualhies, 10 . as a substance.

[^168]:    ${ }^{1} N K$ p 941 1. 9 saye that Prafastapids's example correaponds to the second of theee, its rubric berng oupakpaikadeiaptis (i e it is found in soms orpakfas, not all - not all non-horses have horns, bat some havo).

[^169]:    ${ }^{2}$ VIdyȳ̈bhaqapa $H I L \mathrm{pp}$. 994-5 = MSIL pp . 94-5 Kerth ILA p 135. Sloka-bärttika, anumannaparıcheda Il 96-107
    ${ }^{\text {P }}$ Pirthasirath1 Misre in the Nydyarätnäkara ad loc. says that this 18 the Samkhya argament to prove that Purufa 18 'other than Prakfts. The ovolutes of prakits have reference to an 'other' The argument oceurs is Samkhya Kdrikd 17, and Gaudapla gives the example of the 'bed'

[^170]:    ${ }^{1} N R A$ explains compositeness as consisting in the 'gunas'-ativa, rajas, tamas.

[^171]:    ${ }^{1}$ Keith applies the term utavighätakft (ILA p. 135) to this argument, and the term is sppropristo. But it is not used in the Slokavartisia, and there seems to be no evidence that Dinnags used it. It occurs however in the Nyalyabindu p. 1181 17, where this same Samkhya argument is given. For Dharmakirtis further remarks on the argument ree NB p 111 1. 3 He has defined sadhya so widely as to cover all thst 15 smplsed in ' $P$ '; and thersfore he need not treat thin sitavighâtakft as a separate variety of contradictory reason. It comes rinderthe.genepal, rubric of 'M contradicte $\mathbf{P}^{\prime}$ ',

[^172]:    ${ }^{1}$ Thus seems to refer to VS VII 226 [Samavdyam cannot be the nght reading.]

[^173]:    ${ }^{1}$ The srgument belongs to the controversy of abhihitanvalyauda soreves anotabhidhanavada see NK p 281 1. 24, and Fraddegon's tranalatiot of the passago in'his Varfeqika System p 492.

[^174]:    ${ }^{1}$ or, because mocrporesl.
    ${ }^{1}$ Bl Vart, anumana, 84, trayah sambayahofapah eat surhye tadabhdoe of dedbhyam vyaprtta coa ca; doau vifuddhdrthasambaddhaw yay thetruskadedeni. "There are thres doubtful remens, aither a reason found An Pand non-P; or a reasbin excluded from both, or a parr of qualities joined with contradictory qualities, found in one and the same thing".

[^175]:    'Sl Värt., anumaka, $98-88$
    "Sridhare explains that although these two qualities taken moparately are found in other thangs as well as aualities, taken together they occar nowhere olee except in quality, NK p. 248 ll . I .

[^176]:    ${ }^{1}$ Bridhara ( $N K$ p 242, 119 and I 23) quotes VS II 1118 and 19 but the interpretation of the whole passage VS II 11 17- 82 has to be taken togother, and Pradastapada himself partially quotes II il 22 a little belon. It 18 indubitable that VEtsyEyana on NS I 12318 referring to this passage in VS-he partly quotes and partly paraphrases VS II. in 28 at NBh p 84 Il 10-11 Faddegon pp 174.5 notes this but his anggestion p. 605 that VS II. 11.22 is a later interpolation taken from Vatayāpana's discuseion seems to be bameless -Prsáastspāds's own sccount of doubt is at pp. 174-5 (samfananırlpanam) Sridhers ad loc, p 176118 quotes NS I 128 remarking that the fivefold classification of doubt given in this satra of the 'samanatantrika's' is covered by the classification which Prasastapada gives.

[^177]:    ${ }^{1}$ Eridhars $N K$ p 24212 fi, gives the ressoning of those who maintain that the asadharang is s canse of doubt-sembayahetutvam eva vyatirekino hi vapakpad coaikasmäd pyäpittar nayatd. tenc pakp̧e nirnayahetutvam . asdidhdranasya tu oydefttsr anaskatıki, ospaksdd soa sapakpdd aps tasyăh sambhavdt, etc "A genuine negative reason is excluded only from non- P , while the asddherane is excluded from $P$ as well as non- $\mathbf{F}$ So the poaseasion of amell might as well be naed to prove eerth eternal as to prove it non-eternal. Both conclusions cannot be true by the law of contradiction , and both cannot be false by Excluded Middle. Therafore because of the possession of smell doubt arises as to whether earth is eternal or non-etornsl'. He ates Kamarila (Sl. Vart. anumand 88) in support - also the Nyayavarttika
    'and therefore, of course, is not to be clansed as a samhdigdhahetva-blăsa.-Pradastaplda's words sre na ca tayos tulyabalavattvam asts, anyatarasydnumeyoddesasydgamabddhstatedd, ayam tu viruddhabhoda swa. See Keith ILA p. 141 But what Kenth calls 'the contrary pure and ample' must be understood to be, not the virwddhahetodbhasa, but the virodh ankmeyoddeía. ${ }^{16}$. a pratifilbhata In the logic of Fradastaplada's time the pratsplabibhasa tcok the place cf what was later trested as a botodbhdes, viz.. the bddhita

[^178]:    ${ }^{1}$ anvatardoiddhe Thas term is used elsewhere as the name for one variety of the esiddha-hetvabhasa. But it cannot be taken in this sense here Sridhars (NK p 844 1. 25) says, spparcatly in explanation of this, natkatarapakeqdhyavasdyam karoti. anyatardesddha must be taken scoordingly in an unusual non-technical sense, as above rendered (cp. Kerth, ILA p. I19 footnote. Bhiaarvajús is perhapa echoing Prafastapide's use of anyatardsiddhe in thu connection.)
    ${ }^{2}$ See sbove p. 191 for the interpretation of this ontra
    ${ }^{\text {The }}$ panctuation m the text is wrong. It should be : nannyarthateat. sabde oisequdardandt samhaydnutpattir sty wite, etc.
    'irävanatva is Pradestaplda's substitute for the arotragrahapo yo 'rthay sabdah of VS II, 1. gl.

[^179]:    ${ }^{1}$ Sridhara NK p 245 ll $12-18$ elvendsten this passage an follows : ${ }^{*}$ After explaining sound in II. in 22 as the object of the organ of hearing the sitrakãa says there is a doubt whether sound is substance, quality or action. . The opponent here says 'when you say that this doubt anses with regerd to sound which is the object of the organ of hearing, you mean that it is just the fact of being the object of hearing that is the ground of this doubt and the fact of being the object of hearing is the oifequa, the peculiar property of sound But from the experience of this pecular property doubt cannot anse For doubt has as ats condition the remembrance of both conflicting properties And remembrance does not arise from experience of a peculasr property, an asädhdrana dharma, because it is never found together with any pecuhar property whatever' In reply to this objection of the opponent, the sütrakära has given this rejoinder which Pradestapads expresses in the words nāyam dravydidinäm anyatamasya vifegah, etc"
    ${ }^{2}$ As Bridhars expresses it ( $N K$ p 246 1 1) "the possession of a vifepa as such (orsepatiena ripena) is neither more nor less than (eva) a character common (eämānya) to substances qualities and actions and so in this aspect (tena rippena) it is rightly considered to be a casuse of doubt But in its aspect ss axädhärana dharma it 18 not a cause of doubt, becsuse it does not call to mind different alternatives". And again 1 " 7 "What does it mean? It means that distinctive characters, orseqa's, are neen slike in subatances, qualities and actions. Now a distinctive character-andibility-18 seen in sound Therefore, from its being a distinctive charscter, a doubt arises-a doubt embracing substance, quality and action But if its asddhürana aspect also were a canse of doubt, then there would be the undesirable consequence of doubt arising from the distinctive characters of the six categories themselves, since each of these has its asädhärana dharma. and the result would be that doubt would stop nowhere"

[^180]:    Fiddegon (Vasiegika System, p 884) ssys that the argument of this pasasge in Prasastapads's Bhafya has been misunderstood by Stcherbataky, but Stcherbatsky's remarks (quoted by Fsddegon, p 883) seem to me to give a correct sccount of the passage, except in his suggestion that the argument here discussed by Prassstapäda. fabdo gwnah ardvanatoatt, might better be expressed sabda tarebhyo bhudyate srāvanatvat for the latter 18 quite a different argument, and one which Prasastapasde does not consider at all,-lt belongs to a later phase of formaligm when the controversy as to the kevaldinvayin and kevalavyatirckin had arisen But, as Stcherbstaky rightly points ont, "Pradastapāda ne montionne nt le kevaldnoatinn me la kevalavyatireksn" The distmetion was nnknown to the logic of his time. Stcherbstaky's inference that he regarded them as fallacions 18 therefore ont of place. [Kerth's statement (ILA p 142) that "Prsiastspads appears to admit the truth of the argument 'sonnd is a quality because it is audible', or 'sound differs from other things because it is audible' ", is a mistake.]

    Fsddegon translates this passage ri the Bhäya at pp 308-7 of his Vardestka $\mathcal{B}_{\text {ystem }}$ but I think he missea the mesning of it, in part

[^181]:    ${ }^{2}$ abhyupagata. The meaning is that your position is contradicted by the very authority which-for the purpose of your argument-you are nocepting. See note 5 Vidyäbhüsans's rendering of the rabric in the Nyäapravasa which apparently corresponds to this is 'a thesis incompatible with pablic opinion' See Fragments from Diǹndaga, Appendix I Bugiara p. 60 translates the correaponding hesd from the Hetudvarafagtra "contrary to the public understanding" the example being "women and money are sbominable thugg" ${ }^{\prime \prime}$, e a mere paradox.
    $\ddagger$ Drongge's list from the Hetudvarafastra as given by Suguara pp e0-61 very closely agrees.
    *Vidy ghtusaņ HIL. pp. 290-291=MSIL pp. 90-92 Uddyotakara NV pp. 116-117 criticases examples given in the Nyayapravesia, and appesris to approve of Prasastaplida's exsmple of class (iu), as contrasted with the Bauddha example
    ${ }^{\text {s anumänapartccheda, verses 52-75. }}$
    "ghanath ambaram. Sridhars says that the mesns of knowledge by which akLig is known eatablishes it to be eternal and without parta. Therefore the Proposition that physical spece or other is without interstices contraducte the very inferance which establishes the existence of the Subject rtself, 1 e of 'ether' NK p. 286 1. 22.
     praesfa this heeding is translatod 's theas mompatible with publuc opinon', the example given being 'man's hamd is pure because it is the limb of an innnimate betng'.

[^182]:    But as neither Bauddha nor (strictly spesking) Vardegika accepta authority or 'credible testimony' as an independent source of knowledge. there would seem to be no place for this class of fallacions proposition in etther system But in practice both Bauddha snd Vaifegika eccept the suthority of soripture, so that the difficulty should not be allowed to have too much weight -Sridhara however seems to feel a difficulty, and meeta it by characterising this type as degtintagrähakapramanaosrodha, contradictwon of the source of knowledge from which the reasoner has derived the facts to which he appeals (this characterisation is however too wide, for it would cover the first type also, contradiction of perception). According to his snalysis the reasoner appeals to scripture-"the scripture asys there is no harm in drinking milk What harm then in drinking wine?"-The answer is that the very same scripture which allows the Brahman to drink milk forbids him to drink wine If you appesal to scripture in the mstter of milk-drinkng, you must not contradict it (for it 18 abhyupagata, sccepted by you) in the matter of wine-drinking. (NK pp. 236 last line--287).

    Treated thus, this example becomes a case of self-contradiction, like the fourth and fifth types which are opposed by Sridhara to the first two types, in which the proposition contradicte, not merely your own tenets or words (which may be false), but a source of valid cognition In the first two types the contradiction proves the falsity of the Proposition: in the last two it 1 s merely a proof of mconsistency. See next note But Bridhara does not class the third type with the last two, as he ought to do on his own anslyess of 14 which suggests that he thinse that Prakastaptas's third class really ought to be trasted as a case of pramdnavirodha, like the first two As a Nasydyika, Brithare would of course treat it so: but as a commentator on Prasastapide he feels it difficult to do \#o. See next footnote slso.
    ${ }^{1}$ Gridhars suggests the objection that the last two headings might be reduced to the first two, but rephes that a fastra (eg. that of the Bauddhas) may be basied on merely fallacions proofs (pramdpabhadea), in which case contridiction of the bistra wou.d not be pramdnadirodha, i.e. could not be olessed under either of the first two heads. And the same apphes to contredicting one's own etstement - for one'e own statement may

[^183]:    be apramanamala, in which case the contradiction of it would not smount to pramanavirodhe. That is, he regards both these heads as cases of selfcontradiction merely
    *Vidyäbhâanna's account has here been corrected from Sugiura, P , ${ }^{61}$, 'The next four fallacies of the Thesis are not found in Dinna's" (i e . Duninga's) "work but only in Sarikara's" ( 1 e in the Nyäyapraveía, which Chinese authority sttribates to Samkara Svamin) "This 18 one of the very few additions made by later philosopbers to Dinns's syatem It will be remembered that Dinns anid. 'The terms used in the Thesis must be aocepted by all', . Upon this principle of Dinns's teaching Samkera developed the following -
    (vi) If a disputant wishes to prove that God is almighty, and if his opponent questions the very existence of God, then the Thesis 18 not a fit subjeet of proof until at lesst God's existence 18 admitted by the opponent. Buch a Thesis is called a Thesis with an unaccepted subject.
    (vu) If the predicate of the Thesis is in question, the Thesis is sand to be one with in unaccepted predicate
    (vu) And if both subject and, predicate are queationed, then the Thesis is one with both parts unaccepted.'

    These three fallacies are therefore three cases of the fallacy of many questions
    ${ }^{1}$ Sl Vart anumana, 56-57 The latter conplet 1 s quoted by Bridhara in the present context, NK. p. 2381 10vaspartityapericchede ndvakasah parasua tu molle tasya hy anutpanne paroena preayo hrtah.
    "Where the opposite is definitely known thare is no room for a subsequent or second proof, since its object is sublated by the previons proof before the promises of the latter proof come unto being".
    ${ }^{1}$ i.e. perception, inference, testimony, analogy, presumption, nobenstence. Soe p. 805 below.

[^184]:    ${ }^{1}$ The resding of the text is atha badhitavirayato sats tratripyam avinäbhäah but the variant yatha for atha 18 noted The variant gives the clue to the true rending, which I think mast be athäbadhitarsayatee sats, etc I have rendered in accordance with this conjectural restoration of the text.
    ${ }^{2}$ NK p 836 Il 18 -16 Of p 20517 -rdam anenäonäbhatam its jaßnam yasya ndstı tam prats dharmins dharmasyanvayavyaturekavatopi lingatvam na vidyate. It seems clear that for sridhars the 'three characterrstics of the middle' conld not slone, guarantee avmabhdva or inseparability of connection.

    But how can it be said that, judged merely by the canon of the tratripya, there is 'inseparable connection' between 'being a product' and 'being not-warm' in the srgument 'fire is not-warm, because it is a product'? -The snswer apparently is that the middle 'beingo a product' is found present in sapakja's, $1 e$ ecol things, such as water and is found sbsent in vupakea's, i.e, warm thinge, such as atomic fire-particles (of course it will be strange to maintain that, whereas fire-stoms are warm, fre-composites are cold But then the thesis itealf is strange, and the person who maintains it will be driven to strange devices) And thus argument falfils

[^185]:    ${ }^{1}$ Tranglated above I masert it here in order to supply the connection of thought
    ${ }^{2}$ There is an unfortunste repetition of the phrsseology used in saming the varseties of the 'asiddha hetodbhasa'.

[^186]:    ${ }^{1}$ Praśastapēda's ananugatantdardanäbhäsa and avyävfttanidarśanābhäsa, as interpreted by Sridhara, cunsist in fallure to state the oyapt: The corresponding head in the Nyäyapraveśa consists in a fallure of vyäpts. Dharmakirti provides a place for both falure to state the oyapts, and falure in the vyäpta itself, under two separate rabrics-ananvaya and apradarbitãnvaya: and this distinction between form sind matter 18 also made by Kumarila, whose hat otherwise corresponds with Prasastapada's Dharmskirts further incremses the $N y \overline{a y a p r a v e d a}$ list of ten (five and five) nsdardanabheses to eighteen (nine and nine) by adding three classes where the major, the middle, and both are doubtful See Nydyabindu pp 166.7 and Vidyäbhüqap! $H I L$ pp. 314-5

    The udăharanđbhdsa perhsps doee not figure m sny Nasyayika work except the tenth century Nyayasara of Bhæsarvajis-a work which deviateo. from the sccepted Natyäyag teachungs in other respects slso. It gives what ${ }^{15}$ practically identical with Frasastapada's list of twelve (six and sux) - but adds that eight (four and four) others are recognised, in which the msjor. middle, both, and aubstrate ere doubtful.

[^187]:    ${ }^{3}$ The passage is quoted in full bv Vacaspati Misrs in NVT p. 188. It will be found in Fragments from Dinndga, pp 29-38.
    ${ }^{2}$ Prasastapada makes no reference to this acheme, nor to any other scheme of valid and invaind 'moods' It might scem that he would have referred to this piece of formsliam if it had heen known to him and this gives some support to the view which makes Prasastapads earlier than Diñnêga

    But on the other hand, Prasastapaide does note the two valid forms of syllogism-and it may be argued that this implies the kund of formal ncheme set out by Dinnàgs

    The first clause of the trasiupya-anumeye sattoam-1s ignored in the scheme, that 18 , the relation of M to S , pakgadharmata, is ignored, so that what was later called the asuddha hetvdbhäsa, i.e. the middle which 18 fallacions becanse it does not reside in S, finds no plece in the saheme. Moreover what appesra to be the closing line of thin fragment cated by Vacaspatis seems to state the princuple on which it is ignored-vis, that true and fallacious ressons in general are sitike 'pakpadharma', ie. reside in $\mathbf{8}$.

[^188]:    ${ }^{4}$ The convenient Sanskrit formulae for the varions types of syllogismand psralogiam are those need by Uddyotakara - except that i have substituted the more familiar 'sapakịa' for Uddyotakara's 'tafjattya', 1.e. sddhyajatiya,

[^189]:    ${ }^{2}$ or, as Uddyotakara would put the objection to this argument, the negative evidence 18 conflicting-pardharmyam vyabhicarati, 1 e non-M 18 $\mathbf{P}$ as well as non- $\mathbf{P}$ For Udayotakara holds that in thes particular case (1.e where the hetu is an asdahaiana dharma, so that no positive evidence is avsilable) an argument which satisfies the third canon can be vald without satisfying the second, provided the negative evidence all points in one direction, i.e provided that all the non-M's are non P. Under this condition the asdidharana dharma can be a valud reason (belonging to the type which he calls avita or oyatirekin), and which the later schools recogmese as kevalatyatirekin. In his phraseology the hetu noed not always be a trilakganahetu, i.e it need not alwaye satinfy the three canons of syllogiam for the kevalavyatireksn is vald althongh it is only dotlakyana or doipadayukta, 1.e satisfies only two canons, viz, the first and the third

[^190]:    ${ }^{1}$ This is Uddyotakara's proviso Dunnaga makes no proviso and so treats all argoments which astiafy only the third canon as mvalid. See lest note, and page 941 below.

[^191]:    ${ }^{1}$ Sl. Vart., anumana, 107-111

[^192]:    ${ }^{1}{ }^{1} \mathrm{e}$, we can infer from M to P , but not from P to M If S is M , then it is P: bnt if S is P , it is not necessarily M .

[^193]:    ${ }^{1}{ }^{1} \mathrm{E}, \mathrm{M}$ is $\mathrm{P}, \mathrm{S}_{\text {is }} \mathrm{P}, \quad \mathrm{S}$ is M . There is no onntradiction becanae $P$ is not as a matter of fact greater in extension than $M$, in the case supposed -But then $\mathbf{P}$ becomes the resi 'oyapya'. That is to say the true form of this argument is $P$ is $\mathrm{M}, \mathrm{S}$ is $\mathrm{P}, \mathrm{S}_{\text {is }} \mathrm{M}$. As we should put it, it is formally invalid in the Second Figure
    ${ }^{2} N K$ p 248 1. 9 The second line is quoted here in the form ddhikyd ' $p$ I oiruddhateat, etc.
    ${ }^{4} N K$ p 248 ll. 4-9 It ${ }^{18}$ perhaps surprising that Indan Logie never developed the notion of pyapyavyäpakatoa into the quasi-mathematical analysis of the relation of terms in extension which constifutes westerp

[^194]:    "formsl" logic Indsan formalsm in fact seems to break off sbruptly at the point it which western fermulation begins,-perhape by a fortunate instinct

    The Note on the Indian Syllogism in Mind xxxin $p$ gas attempts to appreciate the tratrapya formulation of syllogistic types by way of cornpsrison with western formalism I do not beheve that any really unportant mference is the thing which it 18 represented to be either by the Indisn sitempt to reduce it to an affar of examples, or by the western attempt to treat it as an appheation of the Dictum de Omni et Nullo Bnt-if formal logic 18 admitted to have a certain methodological value-I think that it is as good a mental discipline to turn the wheel of the reasons as to plough the sends of Barbara Celarent. The atady of either logic is almost a necessary introduction to the philosophical literstare of either civilisation.

[^195]:    'The rejection of the sixteen sädhyarhadesavitis as 'assddha' does not conflict with the Aristotelisn recognition of inference from 8 minor premser un which S is undistributed to a particular conclusion For the 'some B' of the conclusion $t 8$ the Indian logician's sddhya, and of the inferance 2 s to be valid the whole of this 'some $\mathbf{B}$ ' must have been referred to in the premise

    In other words, the M , in a proposition connecting M with some s is still sädhyavyäpaka, reasdent in the whole of that (1 e a particular part of B) with which its connection is asserted, if the proposition is a true one The subject of particular propositions is in this sense as much 'distributed' ss the subject of universal propositions Indian logic knows nothing of sur distinction of statements as particular and universal-a distinction which, as used in our formsl logic, is certainly withcut logical justification

[^196]:    ${ }^{1} N V$ p 167 II 8-6 ta te pakęavyapakdh sodasa esăm pañca hetavah, sefa hetvabhasah anvayavyatsrektnau dvau vipakpdvrtti tftiyanevamau; ekāntavadinonvayınäv coa dadamaskādadau, vyatiraki pancadada its
    "These sre the sixteen types in which $M$ resides in the whole of $A$. Five of them are vald reasons, the rest fallacies; the vald ressons are two positive-negative, in which $M$ is not found in X non-P, namely, the third and ninth in the sbove list, for the person who maintang that there in only one class of thinga, vis., non-eternal thinga, the tenth and eleventh are purely ponitive, the fifteenth is purely negutive".
    (The positive-negative reasons are described as vipakedoptts to dratinguish them from the fallacionu positive-negstive reasons, which are ather etpahifarkadesacriti or otpakqueydpaka)

[^197]:    ${ }^{1}$ Bestdes the passage at $N V$ p 167 (uted in the last footnote) sce p 181 L .18 which deals with a schenie (apparently attribufed to Dibnaga) of seven typee of ressons-s saptikā "Saptıkūsambhave zaipratinedhäd ekadorpadaparyudāeeng trilaknano hatur tit tad apy ayuktam, doipndalakaanayor hetutodt . . donlakqanayuktayor hetutvad uti-anabhtripagatanitya pakpasya kftakatvad sty ayam dvābhyäm lahsanābhyam yulyate, prayatnönantariyakatedd sts cänayor hetubhävo na syăt " "The view which recognises seven types and by rejecting six of them as breaking one of two clauses of the trairipya reaches the conoeption of the 'resson with three

[^198]:    characters', is wrong becanse two middles which have only two characters sre true ressons, viz, the middle 'being a product' is endowed with (only) two charscters for the person who does not admit the existence of any eternal subject; and so is the muddle 'being an effect of vohtion' . and so these two nuddles would not be valid reasons

    The passage at NV p. 69 merely repeats this Passages at p 48 and sgain at p 51 suggest that the trividham anumanam of NS I. i 5 may mean anvayin, vyatireksn, and anvayavyatirekin This looks as if Uddyotakars humself accepts all these three as valid. But again he fails to gave an example of the first class which is really kevalanvayin, sind agan asserts its validity ouly conditionally-yathä sarvantyatvavadinäm anstyah sabdah kftahatodd ity asya hi vipakqo nasti.

[^199]:    ${ }^{1}$ The dufheulty 18 exactly that whech Mill found in all byllogiams, as formulated by wectern logic It was avoided in the Indian formulation, so far as that arguea from sapakyas to pahsa, 1 e no far as it is an affar of exsmpies Bot the Indran formula goes bankrupt when there are no examples, the only 'evidence' for the conclusion being the pakera itself The trath ia that argament from examples-or, what amounts to that, from a generalimation from examples so far from being the type of all inference, is a comparstively rare and unimportant way of reasoning : and there ${ }^{2 s}$ nothing objectionsble in finding the evidence for the conclusion in the 'pakfa' itself This was recognised in the doctrine of antaroyäptı See $N y d y a ̈ v a t a r a$, I. 20


    #### Abstract

    ${ }^{2}$ For vita and avita see NV p. 1261 8. and Kerth ILA p. 90. The two words are usually translated 'direct' and 'indrect' and the Jatter rendering corresponds with tha fact that Uddyotakara slways expresses the negative argument (vyatireksn, which for him slways means kevalavyatsrakn or avita) in the marrect form of an argument from the undearsble consequences (prasanga) of the opposite thesis, e.g. na nirãtmakam sdaín jivac chariram, aprāpidimattivaprasangat. 'the living organısm is not without a moul, berause if it were it wonld follow that it should be without vitald functions But the precise meaning of vita m this connection would seem tor


[^200]:    be that the hetu or middle term 'goee sway from' the pakpa or minor (otovd hena prakärepa itah . . . pakpavyāpakatve satı, sapakeavyaptya 'vyāptyd oa NVT pp. 182-8) The avita hetu is exnsequently a hets formed by an asadhdrona dharma, $1 . e$ by a quality whech does not 'go sway from' the pakea into sapakepas, but is found in the pakp̧a only.

[^201]:    e matter of fact found with non-P as well as with P (in the case of K , earth-snbstance, itself-for thnugh earth-atoms sre eternal, earth-compositas are not, so that the argument is badhita, 1 e. $P$ is not found in the whole of the subject). The fist is that it is not the (mere) positive concomitanre and negaitive concomitance that make a positive and a negative reason respectively vald, but the invariabulity of the concomitance in erther case "*

    At first sight it looks as if the statement gandhavattivam ca nutyinityavyabhictirs were meant as an explanstion of the phrsse vadharmyan na ryablicarati But this is dufficult, for Uddyotaksers is precluded by his own princtples from ssying that the argument is savyabliscära in the sense that $M$, possession of smell, is found with other nor-eternal things: becsuse M is an asddhäratadharma, ie only foand in S (earth-substance being alone odorous in Indisn physics), 30 that a counter-ingtance XM non. P-a dipakga in which M is present-is not forthcoming All that can be done is to adduce s connter-mstance of the form X non-M P-s sapaha in which M is sbsent Therefore, if the clause were intended to explain vardharmyam na vyabhcarats it should heve run gandhābhāvo nstyānutyavyabhicäri.

    Taking the text as it stands, the clanse must be regarded as a parenthesis-' 'Apart from other objections this particular argument would snyhow be urvalid, smoe it is badikta."
    ${ }^{1} B$ itself cannot be sdduced ss evidence of connection between $M$ and $\mathbf{P}$ without begging the question-for we do not yet know that 8 in $P$. And If there are other cases in which $P$ is found-XP's or sapakias-they will not be evidonce for connection between $M$ and $P$, because on hypothest $M^{\prime}$ will be absent in such cases.
    ${ }^{\text {I }}$ If none is forthcomung the rubric will be avidyamdnaripakna, and the argnment will be invalid There are four possibilities in the case of sn asdelidrapadharma which is used as is middle term (ignoring cases where M is not sdihyavydpaka, i.e. where $\mathbf{8}$ is as a mattar of fact not M, 1 e. where the argument is condemned ab tnsto as 'assddha') They are --
    (a) B and M counciding with each other in extension slso coincide with a limited $P$. The rubric then is avidyensinasapaksa

[^202]:    ${ }^{1} N$ VT p. 198 1. 11.
    "Which he states in the form "only the absence of vitel functions is excluded from the organism-not the absence of soul'.

    See Note on the Indran Syllogram in Mind, n.s. Vol. XXXI No. 188, p. 409 footnote, for further remarks on this argument.
    ${ }^{4}$ The opponent ought to produce a counter-mstance in the form X M non-P, i.e e thing other than the organism (8) which is ponsessed of vital

[^203]:    functions ( $\mathbf{M}$ ), but ${ }^{18}$ not possessed of soul (non-F) But it is umposibibe to do so -This' would be a counter-mistance to Vicaspati's major promise, all that 18 withoot soul 18 without nital functions 80 that Uddyotakars does in reality meet the charge of illicit major by saying that the opponent cannot (without begging the question) object to the converted major premise. Why then does he not himself use the convorted major, as Viccaspati does? Because he 18 well a ware that, as the opponent cannot produce as case of $X \mathrm{M}$ non. P , so he humself agan cannot produce s case of X M P. No 'evidence' is avalable, for euther party, without patitio, in the sphere of what poasesse8 M

[^204]:    ${ }^{1}$ Kerth ILA pp. 180-181 "To arrive at , s ponitive conclusion from s negstive is in itself an unusual procedure " Thas is true when the negative does not function as 'the cutting edge of a poestive'. Keith, thinks the 'purely positive' 18 less objectionable than the 'parely negative' typebut a knife without an edge is quite as bad as an edge without a kmife Indeed the madequacy of the paradergmatic formulation of inference comes out more clearly in the case of the 'purely posituve' than in the case of the 'purely negative' type.
    "There is an obvious analogy between the Indian distunction of middle terms or syllogisms as 'ponitive' and 'negative', and the 'agreement' and 'dufference' of modern Inductive logic For the Indisn distinction taras on the nature of the evidence svarlable, 1 e it belongs to the Indian syllogism m its 'mductrve' aspect But any attempt to press the anslogy further might be misieading The Indian syllogism is a syllogism of superficial observation apphied by thinkers whose intereats were predominantly metaphyical to subjects which for the most part do not fall within the province of superficial observation Very much the same thing may, be sard of the western syllogism of course But the "indnctive methods" attempt at lesst to formalate the exacter observations of experimental science although the attempt may be (ss Bosanquet maintains it to be) on altogether wrong lines, being stall confined within the 'linear' view of inference. See his Implication and Linear Inferonce pp $81-82$
    ${ }^{\circ}$ Upasamhdra 18 a synonym of upanaya (see NS I 1 38), and meank the application of the example to the case under consideration. In the anupaamitharn type there can be no appliation becanse there sre no exsmples Keith (ILA p. 145) renders 'the reason which does not subseme'. The name anupasamharin sppesrs to be late, bnt the type is aotdyamanasapakqaespak\&a, ${ }^{10}$ No. 16 of Uddyotakare's list. There are no negative examplos becasuse the major term 18 unlumited in extension, and no positive examples because the minor term 18 unlimited in extension. -The type may be indifferantly regarded as a fourth raniety enther of the avidyamdnagapakpa types (Nos. 10-12), or of the avidyamanaotpaksa types (Nos 18-15). or of the asadhdrays types (see footnote 2 on page 24, supra)

[^205]:    ${ }^{1} N V$ p 127 ad fn.

[^206]:    ${ }^{1}$ That 1s, there ${ }^{18}$ failure of pakfadharmatä in this argument-an western schoolmea would say, there would be an illicit process of the minor, sunce the anumeya (that abont which we are going to draw the inference of 'being transitory') in all atoms, not one class of atoms only

    Of course thers will slso be a farlure of pyapts in the argument, i.e. the major premise cannot truly be stated as aniveran proposition. since only some, and not sill, odorous things are transitory (earth-composites are transitory, but earth-atoms are eternal)

    But it ${ }^{18}$ very notewarthy that Uddyotakare in this critucram of the trasripya hardly rasses the question whether it uncludes a statement of vyapts in the sense 'all $M$ is $P$ ' $H$ e uses the word oyapth, but in the sense 'all SP is $\mathrm{M}-1 . \mathrm{e}$ in the sense of paksadharinata $\mathrm{He}^{\text {writes an if }}$ salmost unconscions that pyapts in the later sense of 'all M ${ }^{18}$ P' (Prataste. pads's pudhe or formuls for the nedartanc or 'major premse') formed any part of Dininiga's logical theory. From this sulence it might be inferred elther (a) that Uddyotakara did not thunk that it was the business of the trasrapye to formulate the requirement of a oydpts, and was aware that Diningiga did not intend his formula to do this; or else it might be inferred;

[^207]:    (b) that be relramed from rasing the question whether the requarement of oyapts was or ought to be formulated in the trairipya because he does not wish here to snticipate the discussion of cyapts, which forms the climax of lis criticism of Buddhist logic

    Uddyotakara bumself rejects the notion of oyäpts unrverssl connection between qualities in the abstract, anintelligible. See below Chapter IV, section $\mathbf{\delta}$.
    ${ }^{1}$ Uddyotakara begms wrth a tathäpl-'even so'-which imphes further critionsm But his criticism starts with the admission that the first clsuse thus understood, meets the difflculty first rased - for it does formulate the requirament that all SP must be M-the requirement of pakpadharmata. But then it makes the second clause superfluous.

[^208]:    ${ }^{1}$ Vicaspati gives the case of the lotus is blue' This sdints of three aradharanas, expressuble in Enghsh by accentuating (i) the subject'The lotus is blue', ie nothing else is blue (in) the predicate the lotus is blue, 1 e not any other colour (iil) the copuls the lotus is blue, 10 it is not true that the lotus is never blue
    ${ }^{3}$ The expression is clumsy because sadbhdva or sambhava (existence of $M$ in SP, concomstance of $M$ with SP) has been made the predicateoudefana or dharma, is Uddyotakara and Vacaspsti here respectively asll itof the proposition It 18 the ' 18 ' that has the 'only' attached to it, in the present resding of the proposition 'SP is M'-'SP $18-0$ nly (never fails to be) M '. Thes amounta to saying that SP must be $\mathrm{M}=$ all SP is M Uddyotakara's point is that it does not give us any universal proposition abont M (As the western schoolman would any, it does not tell us that all M 10 ( P)

[^209]:    ${ }^{1}$ Puroottarapade badhite bhavatah I have follrwed Dr. Jha'a interpretstion here. Vicaspati Mírs however explains the phrase to mean that the first and the third clauses of the travripya are sublated by this interpretation of the second cleuse,-the first, becsuse it is contradicted hy the second; and the third, beosuse it only says over agam what the second is thus made to asy (parnaruktyena).
    ${ }^{2}$ Dhatmakirti however defended just this position, under the namie of samuociyamandvadhäana or 'aggregetive reatriction', as 15 stated by Vicaspati Múra. See Note B for Vicaspoti's criticism of this doctrine There is no indiontion that Uddyotalara was acquanted with the view, at beld by Dharmakirts. Ho is meroly giving an example of what he regarde as abvious self-contradiction. (Bee also below, p. 258 n 1, p. 259 n. 2)

[^210]:    ${ }^{2}$ The usual form of this middle term is prayatndnantariyakatodd (which of course makes no difference). The argument is sabdo 'nstyak, prayatndnantariyakatpad-'sound is transitory, because an affect of volition', and is one of the two velid typee of syllogism given by Dinnage in his list of nine valhd and unvild types of syllogism in the Pramanasomuccaya, which gives the nine reasons exactly as given in the Hetucakradamaru. See Fragments from Ditndga
    ${ }^{2}$ Yas tayjatiyasyaskadebavpttsh prayatnandntariyakatedads tena sar hetur sts praptam Jhā suggests the true reading .. . te, na sa hetur . . ,which is confirmed by the Benares 1990 edition of NVT, ad loo.

    This text (p. 192 1. 9) given what is clearly the right reading otad ooa aphorayati YA sti. te, tava dariano.
    This makea it plan that the true reading of the NV must be that mplied in Dr Jhe's rendering, vis, . . . te, na sa hetur its praptam (instead of tena sa hetwr, ete, in which the Chankhambs and the Visianagram oditions sgree, wrongly). The older texts of NVT reads otad eva sphorayats ITI TK, on which the editor notes rdam mudritavdrtikapuetake ndeti.

[^211]:    ${ }^{1}$ It 'would be understood' from the previous clanse, tattulya eva sadbhavah

    The previous clause havigg been suterpreted to mean that 'all existence of $\mathrm{M}_{\mathrm{is}}$ in XP', it is superfincus to sdd that ' M never existe in X non- P ' See aleo next note.
    ${ }^{\text {² }}$ Vscaspan says (NVT p. 130 1 5) prathamam kalpam dipayats YADI TXVAD ti. Tattulya eva sadbliãoa ity anenc gamyata sty arthah.

[^212]:    Dr. Jhä has overlorked this interprotatinn of Vicaspati's, and takes the passage as mesning that the word asats is superflnous in ihe phrase ndetitasvé 'satt But Väcsepati's interpretation is clearly correct
    ${ }^{1}$ This accurately represents the Buddhist formulstion of the trairspya with the help of eva, es given by Dharmakirts in the Nyduabindu aninioye sattram coa, sapakfa soa sattvam, asapakso räsattvam soa (NB p. 104 1. 8)-

[^213]:    ${ }^{1}$ The sentence tranalated in Note A above, p 254. Bnt, as noted there, there is no indicstion that Uddyotakars is referring to a view such as Dharmakirti's,-slthough Vacaspati seems to suggest that he was - In Tact Dddyotakars speaks ss if the possibility of a defence of 'aggregative reatriction' had not even occurred to his mind. snd the passage 18 therefore perhaps an indication of his chronological priority to Dharmakirts [Kerth I L.A. p 28 states that s work Vadavidhs to which Uddyotaksara refers-cf. NV pp 121, 159-"can with certainty be identified with the Vadanyaya of Dharmakirtı." But this identification, for which Vidyabhūpana 18 reaponsible, is very doubtful and that Vidyabbhásapa hmaelf became doubtful about it later is indicated by a note to p 124 of his HIL-"rt $1 s$ reported that Vasubandhu too wrote a work named Vädavidhs which is no longer extant'". Vicaspati Miern's comment on the NV pasasges whech refer to Vodavidhi lesves the impression that 'Subandha' 1 e. Vasubandhu, is the opponent againat whom Uddyotakars is arruing This is Gangingith The's view-See his Transl vol. I. pp 441 and 464, footnotes See Dinindgs Fragmonts od 96-27 and Turci in S R A S, Ju y 1929, pp 45'-488
    ${ }^{2}$ See Note $A$ sbove, p. 252.

[^214]:    ${ }^{1}$ That ${ }^{18}$, the sentence certamly does not mean the did generate Nars, and he generated only Nārāysns with Nars. In the same way, in the trasrūpya, you cannot combine your samuccifyamanävadhärap̣a (in the sense of excluding concomitance-with-M from everything other than SI and-XP anyayogavyavacchedena) with a separste snd different function of eog in the first clause (that of excluding non-concomitance-with-M from 8P,-ayogavyavacchedena) That 1s, the application of the doctrine of samucciyamänavadhärana will not ensble yon to get out of your formula the mesnings which you require, $\mathbf{V i s}$, (i) SP cannot but be $\mathrm{M}=\mathbf{A l l} \mathrm{SP}_{\text {is }} \mathrm{M}$, and (n) only SP-and-XP are M
    ${ }^{2}$ For these words of the Vartika see Note B, above, p 254,-It is clear that Vacaspatı is here reading into Uddyotakars a reference to the samucciyamändeadhärana doctrine I do not think there in any mdication that Uddyotakara had Dharmakīrti's arguments in view Seo note 1 p 258.
    'Omitted here because, turning as it does on technicalitiss of Mimshisaka exegetics, I sm uncertan sis to its exsct meaning. The Bauddle; sppears to argue that the mam statoment (oidhi) 18 that "the middle term resides only in the sapakea", and that the first clause "the middle term slways reaides in the pakfa', is to be read as an explanstion (anweadda) of

[^215]:    this Thus there is no difficulty in making a unity of the two claunes The Natyayika replios that there will be a bronk in the sentence-unity (edkyabheda), because genume anuvdia muat not add anything to the main statement, -anadyamanam na visestum bakyate.
    ${ }^{2}$ tasmdd anyāpoharthatvena padāndic virodho vaktavyah -The word padänam may be constructed either with the preceding word (in which case the sense is 'the meaning of coords consista in exclusion of what is other'); or with the following word (in which case the sense is the mutual contradiction of the clatses. '). I have indicated the ambuguity by the clause in brackets in the tranalation

    Stcherbstaky (in le Musion nis vol. v, 1904) hss connected the formulation of the trairupya by means of avadhäranas with the apohavada The connection is explicitly stated in this passage, which therefore confirms Stcherbatsky's view But his mference that the use of the avadhdrapae onginsted with the Buddhists, as a natural corollary of the apohaväda, and 18 therofore borrowed from them by Prajastapāds carries no weight for the use of avadhārapas was mevitsble, apart from the apoha theory.

    Nor 28 it quite cless from this passage that it is the Bauddiag himself who suggeets that the clauses of the trairispya are to be road in the light of the apoha theory The present sentence may be read as coming from the mouth of the Bauddha- therefore if you are going to show that the clanses are mutaally contradictory, you whll have to find another pronf, and your proof must bear m mind our view that 'meaning' is nothing but saying what a thing is not'. But it can as well be read as from Vkcaspsti humeelf 'therefore (seenng that you have pat up a defence against Uddyotakarn's line of criticism) we shall use your own theory of apoha to prove that on your own principles the clausea of the trairipya are mutusily contradictory'. This latter resding better suints the connecting phrsese which (ollows, Tathd hi For tatha hi always clinches a statement just made,either by an example or by an explanation of mesning. The difficulty of connecing the two sentences otherwise is indicsted by the sentence which I have inserted in brackets in the translation.

[^216]:    'agnin tho ambignuty in pada, noted above The equivocal use of the word here seems deliberita, as intended to mark the connection between the discussion of the mesming of the clausos-pada-of the tratrüpya, and the Bauddha theory that the meaning of words-pada-hes in apoha
    ${ }^{\text {PThas }}$ Th the meaning in the light of the apolia theory. According to that theory 8 is $P$ shonld mean 'not-non- 8 is not-not not-non-P' But Vâcaspati does not concern himself with the permutation of 8
    ${ }^{\prime}$ na cänumeyatattulyapaldarthayolh parcesparaparihäravatoh namuccaya
     bhato tt cet

    I think it is possible to understand this only hv taking $t_{1}$ oet an referring back to the whole sentence from na ca-The *ense 18 thst the Buddhist restates his doctrine of samucciyamdnövadhdrana in the light of the apohavāda "We do not mean that SP snd XP are two different things which form an aggregate by addrion There is no need of adding them for both really mesn the samie thang SP means what in not vapaksa and XP means what 18 not vipaksa".
    'What the Buddhist is really siming at is clear What is not SP, and what is not XP, are both identical in the mportant mense that both are

[^217]:     mandoadharagna has not the authority of Dinngga, and is in fact meonsistent with certann of his critiolims of the Va,desikge (Sie Dinnaga Fraamenta p 16) It 28 Dharmakirti's own doctrne Samucciyamãnävadhãraña. bhadhãnain Kitrtẹh svätantryeña (NVT p. 129 lest line).

[^218]:    ${ }^{2}$ The earlier logicians were bsunted by the ambiguity of the term sddhya or anumeya Dinnaga seems to have been the first to make. serious effort to lay this equivocal ghost the eight lines in which be does so are fortunstely cited by Vācespatı in NVT p 120, see Dinnäga, Fragment F) Prasastapads does not desl with this difficulty Dinnaga was followed

[^219]:    and criticused by Oddoyatakara, who dracussea this question in NV pp. 52 I 11-54 1. 2-Then comes Kuntarila's discussion of the same topic, in 8lokagdrtska, anumbinaparicoheda, versea $83-53$. He refors to Uddyots.
    inn'o viev

[^220]:    ${ }^{1}$ In footnote 2 to the first page of the Note on the Indian Syllogism ( $\mathrm{Kinh}_{\mathrm{ta}}$, XXXIII, n. s no $182-1924-\mathrm{p} .398$ ) it was stated that "Indian logre has no generic name for the tern". The statement needs qualification $m$ vew of the use of ekadeda-m o sebse very close to that of our 'term'-un the present pasasge of the Slokavártika And Diñāgs in one passago (Fragment N) uses amda in the sense in which Kumairils here uses ekadeta Bat it is to be noted that only the $M$ and $P$ are called ekadesa What we should call the third or minor term, the $B$, ss contrasted with the ekadota's, $M$ and P , as bemg ekadstavat-the possessor of the terms Therefore, it we are to render okadeda by "term", we shall have to say that the Indian ayllogism only has two 'torms' . for S, the subject, is not a term, but a possessor of the terms.

[^221]:    ${ }^{1}$ Parthasĩrath explains lingilingaikadefavattayä thbhayatmä, 1 e it is both probans and probandwn becsuse if has the two aspects-(i) of M , and (i1) of being a thing which possesses $M$ In the former aspect it proves $P$. In the latier aspect it is that of which $P$ is to be proved - 1 it is rather difficult to flad a formuls which will serve to characterise the gubjoct in this latter aspect. You cannot precisely call it sddhyadharmsn, 'thit which han the property to be proved', becauss this phrase is almost self contradictory - If we know that 8 has $P$, then $P$ is no longer sidhya, to be proved. Later logic uses the formula nathisigdhasidhyavat, io avord this difficulty; but this formula 18 unsatisfactory too.-It is no doubt becsuge of this difficulty thet Parthagirathy uses 'lingir' here.
    ${ }^{2}$ trapya okadedanya.

[^222]:    'This latter will be the mode of formulation which Vätsyāpana had in mind when he said that fire 18 inferred by smoke The fire here ${ }_{15}$ treated prthah, -as separate from the hill if however we sas that what 18 unferred 18 'fiery hill', we should be treating the hill and the fire as 'non-separate' : for by turning fire into en adjectival form wo are asserting samänadhikaranya

[^223]:    'The mplication is that there are other forms of predicate in which the relasion is not necassarily identity and (presumably) the judgment that 'there is fire on the hill' would be an example of this -I am not clear on this matter I sppend the following notes which I hsppen to have preserved as given to me by my teacher in Njäya, the lato landit Jivan iths Misra (1) dandavän purusa itı säbdabudhe abhedasambandhena dandavattđ eva vifesanatvum dandavān purusa itı pratyaknädau tu samyogenaspa dandasya
     tadubhayarambandhas tädatmyam (=abhedas). atra nilapadam nilavats laḳaham abhedasambandiona vilaprakärakaghajaviseq̧yakakábdabodho bhavatt
    '1 his suggeats that a judgnient expressed in words ( $=8$ dabdabodha) (annot bit atate a relation of tādidmiza ir abheda, i.e the logical form of proposition 18 necessarily subject . copula (of adentity) . predicate as in the formula of Western schools logic -But whet Kumbrila seems to say here is that this form is optional. And this wonld seem to mean that s proposition can lasve the predicate 'prthah', ie not rednced to identıty (abhinna) with the subject.

[^224]:    ${ }^{1}$ They can be taken collectively without predicsting one of the other-"hull-and-fire' Parthasarsth1 points out that "tayor vyastayoli samastayor od anyonyävıs̊ıstarīpena nēnumeyatvam "

[^225]:    ${ }^{1}$ i.e if the dharina is taken to be the anumeya.
    ${ }^{1}$ e if the dhermen were the anumoya Parthasagrathi nays sabdin stitpapratyindyām But it is umpossible to formulate this theoretical posesbility -in which the dharmsn, sound, is also the anumeya -as an actual inference

[^226]:    ${ }^{1}$ a if the anumeya were dharmin plus dharma Pairthans̄ratha says babdänutyatvayoh sarbhđoapratuñàyãm
     asth'-'there 18 fire of or belonging to the lull'-or to esy 'there 18 relation nf fire and hall' - But $3 t 18$ crdinary unsge to say parvate 'guir asta, 1 e to use the ceventh or locaive case-mflection here - What is the mesning of the unsistence in all these pasasges (the fruguent of Dinimäga, the Nyäyanärtika, and the Slohavartiha) on the fact that we never nay the fire of the hill, though we do apeak of fire on the hill?-The Indan grammarians hold that thongh thare are zerem case-nflections (obbhahti), only str essential relations of noun to verb (kjraka) are to be expressed in a sentence and these six find expression in five of the case-mflections. The six härakas are object or karma (expressed by the second wibhahts = eccusative case), agent (expressea by the instrumental or third case inflection where the verb is in the psssivi

[^227]:     ndntariyakatays 'ragamyate--'but the relation is underkiood as meepurable' There is parallelian with the language of Dmisgn's dofontion of anumana as näntarìyakärthadarkanam-fragment $G$ It would seem thai Kumărila 1s urging here the objection againgt avinäbliäca which is urgeil br Vddyo takara alan see bels w p 280 ff
     ca vikalpān. Dì̀nāgosamarthtam̀ a kalpam upanyasya dīsayatı-NVT p 120118 "He refors to and crithises the altornatives uriticised by Thnnega, and ather alternatisea, und the alternative accepted hy Dannaga"
    ${ }^{3}$ The Bhäaya ( p 42) has suggented that the rat m pircarat is tire patipratyatia ie-oat us the sense of "ake', qo that puirravat meank yathi" pïroam atha $\overline{\text { ou }}$ pürvavad it yatra yathäpirvam pratyaksabhūtayor anya toradar\&anenänyataras else pliroavat is the name applied where, of two things whith have been (previonaly) perceived, we infer the one not now present to sense from reemg the other-'ss before', as we unfer smohe by mesna of fire" Tddyotakara first takes the 'as before' to apply to the object onferred-' 'sa the object was experienced before in perception, so unst that same objert is now apprebended through inference" But, he rays, others connect the 'ss before' with the thing through which the inference is made, interpreting Vätsyāyana to mean that 'by means of gust that vert smoke which was previously experienced a man spprehends fire'-tenatra dhūmenägnteh pratspadyate

[^228]:    ${ }^{4} \mathrm{Dr}$ Thă musses the connection of thonght bersuse he ignores the exa here And the point of the dascusaion which now follows as obscured unless the connection bere is realised The pecnliarity of Uddyotakars's view of

[^229]:    In the next sentence סddyotakara, more suo, amplifies in commen-tary-form the sphoristic brevity of the first statement-na, dhimosyätaddharmatvat. This is an excellent example of the numerons passage in which - Dddyotakara conveys the impression of commenting on a citstion In Dr Jhá's translation the second sentence reads like mere repetition of the first and the same impression of tautology is given in other passages where Dddyotakars sooktam viopnoti 'comments on his own statement' To readers of the translation these tantologies sometimes seem mexplicable, and confuse the train of thought
    'Uddyotakara takes agniman defah firat in the rense of unspecfied fire-possessing place, place in general so far as fire-posseasing The absence of a definite article in sanakrit makes such misnnderstandings always possible. and it is necessary to force one's opponent to asy exactly what he means by talong his statement firat in the impossible sense - But for the same reason there 18 ambiguity in Uddyotakara's answer dhaimasyataddharmatoatt, which might either mean (as I have rendered it) that the amoke is not a property of fire-possessung place in general, or else that smoke is not so In the latter case the meaning of the retort 18 no longer obvions . for the opponent might say that smoke as anch is a property of fire-possessing place as such. o statement which would be an arindbhava or unvereal proposition Oddyotakara's critoism of such unsersal propositions is given below he rejects them. But as his refotation of the avind̈bhapa has not yet been given it is sasier here to take dhamasyataddharmatedt in the sense 'the smake is not a property of fire-possessing place as such'.
    ${ }^{2}$ This is Dhanga's own new, and Uddyotakara now proceeds to reject it. But I think that what has just preceded is slao directed sgainst Diǹn巨ga, and that Uddyotakara's point against Duinnäge, both here and in his critucism of the trairlipya (anumeye 'tha tattulye, etc) is that Dinnaga usees the term anumeya equivocally For the pirposes of his oyapts or major premise he takes 'fire' or 'fire-ponsessing place' in the unspecified sense

[^230]:    ${ }^{1}$ This rendering is s conjecture, atthäpatti, derived from the $1 m$ possibiluty of getting sense out of the passage in any other way that I can discover. It duffers widely from Dr. Jhas's rendering "if he asserts the conclusion in the form 'thas place contains fire', he makes an empty, mesni , less assertion, specislly becanse mere smoke (nnperceived) cannot bring ab, the cognition of fire, and the Bauddha phylosopher can never percerve ine mmoke (which, like everything else, is imperceptible), -for these reasons any particular place cannot be regarded as the object of inference " The auggestion that the Bauddha philosopher is meapacitated from seeing smoke comet from Vâcaspatı otherwise Vācaspatı makes no comment on thas sentence The Sanskrat is -na ca dhumamätram agnıpratspādakam dhūmanätre vāyach padyatı ato defavideso nänumeyah I think the argument is that, if Binnägs arguer (as he does) from a connection between smoke as such and fire as such in his 'major premise', he has no right to think of the smohe of the minor premise as thas particular amoke,-snd consequently no right to draw a conclusion about fire in this particular place Put as an objection aganst Aristotelasn syllogism-
    $M$ in general is $\mathbf{P}$ in general
    This 18 M in the perticular
    Therefore this 18 P in the particular-1t amounts to a charge of quaternso terminorum (or rather a quinto terminorum). You cannot argue from $s$ specisl $M$ in the minor, and a genersl $M$ in the major (This is recognised in certain cases by our schools logic in its rubric of fallacy of eccident') -This difficulty seems to have weighed so heavily in Uddyotakara's mind that he was led to deny the fanction of the unversal proposition sltogether. Hance the attack on avinäbhava ( $=$ the unverssi proposition) which now follows
    ${ }^{2}$ See Kerth ILA pp 104-105 Keith connects the pasagge at NV p. 56 whth the present pessage. His atatement with regard to the former passage that "Uddyotalcara carefully refutes a doctrine which attributes the name

[^231]:    of syllogism to the demonstration of something as meparsbly connected wath something elac", refers to Uddyotakars's criticism of the definition of anumäna (instrument of inferentisl knowledge) as näntariyakūrthadarianam tadvidah (seemg something which is mseparably connected with nomethmg else, when the person who sees it has knowledge of the inseparable connection) (This definition 18 Dinnā̆ga's fragment G) But Uddyoiakars confines hirnself to enticising the form of statement of this defintion-the word artha is superfluous, the compound is an unjustifisble karmadhdraya, and yet cannot have any other sense, the qualificstion taderdah is superfinous So that the passage throws no hight on Uddyotakars's own position. (Keith is mistaken in his statement that "Uddyotskars objects that, as on the Buddhist view evarything is indissolubly related to everything else, the knowledge in question of a thing as andsesolably connected is no more than knowledge sans phrase, and not inference." See Fragments from Diñnaga, p 22 and n. 1)
    ${ }^{1}$ The argument is baffing, because he ignoras any kind of cansstion except material causation (samaväyikāranaṫ) Vacaspats Miśa say

[^232]:    ${ }^{1}$ We must not understand Uddyotakara to be maintaining the rather desperate position that smoke can exist without fire. Keith takes this view of the passage ILA p. 105 "Uddyotaksara admite that there are exceptions to the rule of indrasoluble union even in the case of amoke and fire, since not only does fire occur without smoke, as is generslly admitted, but also smoke without fire, which contradicts the fundamental assumption of the stock syllogism of the schools" It slso contradicts the poatulaten of onr experience, and would certsinly come under the ban of Udayans's prinesple: vyäghätãoadhir ā́ankd-doubt finds s limit in contradiction of experience end, more particularly, it contradicts Uddyotakars's own doctrine of the lingapardmaria Bee further footnote 3.
    ${ }^{2}$ NVT p. 181 1. $18-n a$ hs Bauddhasuddhants dravyam ndma ksthoid asts yatra rápasparfau samavetau, kshtu eksedmagryadhinatay® nuyatashhacaryau tathe oahnsdhêmdo aps bhaveqyata sty arthah.
    ${ }^{2}$ But does not this amount to what was characterssed above ss 'the desperste position that smoke can exist without fires' I do not think that it

[^233]:    does $H_{1 s}$ words are anagnur dhìmo tifto 'dhämad cägner sty ubhayam oyabhtcän tasmän na sähncaryam Saxhacarya has been so emptred of content by the Bauditha that the only shred of meaning left 18 'togetherness in spece or time'. Now, as a fact, there is no such togetherness smoke and fire are often experienced separated in epace and time as when the smoke continues after the fame has vanished
    'This 'yatra dhfimae, taträgnsh', 18 Prásastapada's oidhs or formala for the mdariana or udaharana, the third member of the syllogism Boe PBh p. 205 1. 10 And Dddyotakars is referming to Prasastapads's view in this sentence. Vicaspatı explains by saying, tasyäps sãhacaryadséqatvät,"this, ton, 18 a form of the 'concornitance' doctrine."
    ${ }^{2}$ Elsewhere, when he 28 analyang a concrete argument, we find an insistence on the individuality of the probans. for example he asys that we can infer impending rain (effect)-not indeed from clouds sa such-but m the form "These clouds will bring ram,-becsuse they are ning, being, as they are, accompanied by deep rumbling. having many line of cranes

[^234]:    flying through them, flashing with Inghtning,- like other rain clouds parceived
     the argument from cause to effect-which is mvald in the abstract, but on Uddyotakars's view of the probans as concrete we can just as ucll argue from cause to effect as we can frotn effect to cause Canse and effect, seen within the individusl whole of which they are easential aspecta, are completely reciprocal
    'Uddyotakara's vieu of mference is essentially a protest agamst an sbatract formulation of the connection of $M$ snd $\mathrm{P}^{\prime}$ resaling in a correspoudmgly abstract conception of $\mathrm{S} \quad \mathrm{H}_{18}$ point is that in the first place (1) there is no meaning in the assertion of a universal concomatance of characters (dharma) in the sbstract It is impossible to assert such connection in any intelligible sense,-pikalpänupatteh, because in any sense which you may try fo assign to it it is mesningleas $M$ and $P$, the dharma's, sumply fall spart if you sbetract them from S , their dharmin. And, in the second place, (2) the subject or dharmin, 8 , must be the subject to which those dharmas, M and B , eapentislly belong. In the inference of "fire from smoke" (to adopt the ordmary but insocurate phraseology which Uddyotakers 18 criticising here) the hill is not the essintial of of dharms. What the essentsal subject of an inference is in fact a difficult queation in aach case; and Uddyotaksra mas be wrong in his analysis of this particular set of facts when he takes 'smoke' as the dharmin But it is difficult to deny the primciple on which his criticism is based. The principle is that you must see $M$ and $P$ essentially connected in and through a eystem 8 , before your anference can reach demonstrative certainty If you make $M$ and $P^{\prime}$ abstrach universsis, then 8 becomes an abstract particular with which $P$ can never bo connected, and $P$ loses all connection with $M$ at the same time

[^235]:    'Cf p 261 supra The duatinction exactly corresponds to Vataybyana's distinction between dharmavidig̣to dharmi and dharmivikiffo dharmah

    It is dufficult (and precarious) to translate an Indas con'roversy mto our thought-forms. But this question does seem parsitel to our question whether the fourth figure is a juatifiable form of ayllogism. From the knowleilge that amoke is accompanied by fire and the perception of fire on this hill must I conclade in the form 'This hill is flery' (BARBARA); or may I opinonally conclude in the form 'Some fiery thing is tha hill' (BRAMANTIP)?
    (The barbsorous form of the latter conclusion is of courso shen to Indisn thuking, which-rightly se it seems to me,-ignores the 'particular' propoation.)

[^236]:    ${ }^{1}$ I take Knmārila as accepting this view
    ${ }^{3}$ It is necessary to read a negative into thas line, 86b, as Dr. Ths does (without comment) in his rewdering Read-dharmo na for the textualdharmopa.

[^237]:    is The sentance cannot mean 'on account of tranatoriness being a prodact ${ }^{\prime}$

[^238]:    ${ }^{2} \mathrm{Cf}$ Uddyotakara's pbrase (NV p 681.19 ) kathath punar ayam agner dhimaviesanay bhavafı' yadd gurabhato bhavati 'Fire' is a qualification of 'smoke' (in the conclusion as stated by Uddyotakara, viz, 'this amoke is fiery') in the sense that it is stated as an adjectrivel concopt predicated of smoke.

[^239]:    ${ }^{1}$ agner dedafotsptative Dr. Jha has overlooked the negstive prefix m the componind, or smended it $\uparrow$ Kumaxils now takes as his illustration of inference snother stock example-"this hill is frery on account of the posisession of smoke".

[^240]:    ${ }^{2}$ Thev are not sta, as a corruption in the text auggests , nor seven as Dr. Jhā makes them The word satsu in Pärthasārathi's comment ad loc.eteş satsu prathamadotiiyayoh siddhasädhyatoam, uttaresm pafieann pramãñantaraerrodhah-1s clearly a mistaken reading, perbaps due to the substitution of pafsu for satsu. The context atealf might seam to macate the number seven : for it states that the first and second intarpretstions take as the thing to be proved something slready known, while the lattor fipe involve contradiction But later on Parthasşrathe exphotly calls the last the eighth - The one which I have numbered (u) really contains two possibulities, one of whirh $\rightarrow$ the one numbered (vin).

[^241]:    ${ }^{1}$ Anistotle recognases the Second and Third figares in the Prior Analytics but not the Fourth, as such Ross states a reason (W D Ross, Aristotie, 1983, p 35) "If his fundamentum diviaionss of the figures had been the position of the middle term he wonld have had to recognise as - fourth possibility the case in which it is predicate of the major premise-

[^242]:    ${ }^{1}$ nanu dhimavifeqyative hetoh paksatkedefatd The natural meaning of the sentence would be the hetu is an sspect, ie a part in inteneion of the

[^243]:    pahsa'. This nould however be a fair description of the hetu on any view and so it could hardly be an objection against the Naryapika viex and the answer in fact asserts that $M$ in genersl is an aspect of the $M$-in particular which constitates the paksa or pribanium on the Naiydyika view -The meaning of hetob pakparkadefata must then be the hett would form in extension a part of the pakna" or, ss Dr JhE translates, "the middle term would become part of the minor term". If M 1s, in extension, part of the Mp's, the M's sbout which $P$ is to be proved, it will not help us to prove $P$
    ${ }^{1}$ The eriticism appears to be bssed in a misunderstending of Uddyotakara's teaching

[^244]:    ${ }^{1}$ Reprint from the Pandit (Benares 1903) p. 56-Pratyakaam ekaih CErodkdh, Kanddasaugatau punch Anumdnam ca, tac oatha Samkhyd Sabdam ca te api, Nyäyaikadesino 'py evam, upamdnam ca kerana. Arthäpattuä sahastāni catvary aha Prabhikarah, Abhidoaqafthenny dani Bhaftä Vedäntınas tathe Sambhavastıhyayuktäni täns Paurānikd jaguh.

    The school of $N y{ }^{2} \neq a$ which accepted only three proofs are named in the comment ad loc., 'Bhifaniya', which no doubt mesns followers of the-well-known comment Bhįgana on the Nyäyasära of Bhdsaroajna The Nyägaīira, among other unusual festores, taught three pramanas mstead of four. See Vidysbhdsans HIL p 858, Keith ILA p 30.

[^245]:    ${ }^{2} \mathrm{Cf}$ the nee of otdhs sbove PBh P 205 Sridhars glosser samänaoudhtodt here by samdnapravpttiprakäratyät "because the form or character of the process 18 the same"; and he explains this by saying "yathá vidptsgrahanabalendnumanam pravartate, tathä sabdadayo 'pi"- 'just as inference functoons through the force of the apprehenmon of inseparable connection, so also do testimony, etc."

[^246]:    ${ }^{1}$ Sridhara has a long polemical pasasge on this, $N K$ pp $214-817$. It is tranalated by Faddegon pp. 465-469. See slao NK 217-220, translated by Faddegon pp. 470-474.

    Kumärila (Sl. Vart., Sabda, 15-87) gives the Sämhhya argaments aganst the Bauddha and Vastesika view, and admits that these argumenta are unvald, though he aubsequantly rejects the view that Verbal knowledge is unference, from the standpont of him own theory.

[^247]:    ${ }^{1}$ HIL p 288
    "Vudyabbhisana's words here are in fact a translation of the objection whoh Uddyotakara rases NV p. 6311 13-16, and which Vīcaspati attributee to Diñnăgs, NVT p 18816
    ${ }^{4} N_{V T}$ p 188 I. 80.

[^248]:    ${ }^{1}$ SDS , chapter on Jasminiya-dardana (p 196 in Cowell snd Gough's translation). See Jhã, Sadho Lal lectures on Nyaya, page 37.
    ${ }^{3}$ Jhā, Sadho Lal lectures, pp. 87-88.

[^249]:    ${ }^{1}$ This suggeats the formula of the fourth member of the syllogism the upanaya or Application And it is noteworthy thet VEtsyăyans, in the passsge on NS I $\} .39$ in which he characterises the members (avayava) of

[^250]:    the syllogiam, says expheitly that the spplication 18 analogy-upamanam spanayah, tathety upasamharāt the applicstion 18 analogy because it apphes (what has been said before in the example) by the une of the word 'tatha' "во'. Cf NS II 1. 48.
    ${ }^{1}$ Jha, translation, I. 100-197, footnote.
    ${ }^{2}$ NS I. 16 See also NS II. $144-48$ (the rather obscure passage in which upamãna is exsmmed) translated pp 318.319 infra.
    ${ }^{2} \mathrm{Bee}$ infra p 318 for the meaming of prasiddha-sidharmya
    Thius in NS I 134 we get what seams practically an identical formula given as the definition of the 'Reason' or hetu in a syllogism ,udäharanasđdharmyat sādhyasädhanam hetuh,-"the Reason 18 the proviug of what is to bo proved from likenens to an example".

[^251]:    ${ }^{1}$ Bibl. Ind. edn p 10 I. 16.

[^252]:    ${ }^{1}$ The text has aprasiddhasya gavayasya, but there is a variant aprasuddhdoayavasya It is necespary to emend to aprasiddhagavayasya and that this is the right reading is confirmed by the commentary whin in line 81 has aprantdhagavayasya, and glosses it by ajnatagavayasya. See Faddegon p. 475 note
    ${ }^{2}$ dptena $=$ by a fit, 1 e credible person But later commentators slways explan it in this connection, ts one uho has had dpts, ie sakfad arthasya praptich.

[^253]:    ${ }^{1} \mathrm{NK}$ pp 220-222 In critrotsing the view of the "discrples of Aabara Svelmin", 1 e the view sbove referred to in conneotion with the definition of upamäna given by Sabara, he quotes Kömarils, Slokanärtskn. upamãna, 35 Faddegon translates this passage of NK at pp 475-47\% For the Mimdihsaka account of upamäna, see Jha's Prabhakara School of Purva Mimāmsã pp 68-69-referred to by Faddegon loc cit
    ${ }^{2} N V$ p 60. l 16 ff , with NVT p 135 ll 3-19. For Dińniga festimony is of course not a separate pramanc What he says amounts to this, that upamãa is reducible either to perception or inference
    ${ }^{2} N^{2} V T$ p. 1851.14 It is part of a floka from Dunnage
    ${ }^{4} N V$ p 61 1. 8 aparıjäăya sitträrtham NVT p 185 |' 3 tad tidram
     sädifyavstinfafilieam sopamänam stı bhrānto Bhadanto Dinndga äkptpatı (sădy fyajulna is the knowledge derived from testımony, sadriyaoifıgtajnäna is the knowledge derived from perception -the former = yath $\bar{\alpha}$ gauh tatha
     (1. 8-6)

[^254]:    ${ }^{1} N K$ p. 222$] 9$ ff. and 11. 25-87. The pasages in the NK in. Which arthapatty 18 discussed extand up to $p$ 225, and are translated by Fraddegon pp 478-488.

[^255]:    ${ }^{\text {'Jhy }}$, PSPM pp 70-71 See also Slokavārtiha, rection 'arth $\overline{\mathrm{a}}$ pattr'.
    ${ }^{2}$ Bubl Ind edn. p 1011 17-20
    ${ }^{3}$ The section known as pramänacatustoaryavasthäpanā, NS II ${ }^{n}$ 1-12 Arthäpatts ${ }^{28}$ spoken of in sifitas 1-6

    It 18 worth noting that arthapatti is one of the 32 tantrayulti's or methodo'ogical notions used in a sästre of which Sárrata, Caraks and Kanṭlya give hists with defintions and exsinples The definition of arthapatti given by Kautilya (with which Suaruta's definition agrees) is "ifad cunktam arthdd apadyate": and the example from the sistra is that, when we are told that a person skilled in the ways of the world should approanh ${ }^{s}$ kung by way of good advice which plessen, the mpheation (arthād äpannam 6havats) is that he should not give good advice that does not please. This sorreaponds to Vateyayans's sccomnt, not to Sabara's

[^256]:    ${ }^{1}$ NBh on NS II 11 1, p 100111 This looks like s paraphrase of the tantraynkts cited in the preceding footnote That Vatsyunana was familar with these lists of tantrayukti's is clear from NBh p. 1619 on NS 1. 14 As the sloha quoted by him in NBh p 7, 1 b on NS I 1. 1 ocenrs in the Kautititia Artha sästra it is even posmble that he knew thelist as Kaufulya gives it Cf slso NS V 121 (arthäpatisama).
    *An opponent objects that it does not alwsys rain when there are clouds, so that the conclumion arrived at by implication is uncertan (anst$k$ antska) -The answer given is that ho misanderstaids the result given by 'mplication',-the umpleation of 'when there wre no clouds it does not rain is 'when it does rain there are clouds'
    ${ }^{2}$ NBh p 101 ; 16 on NS TI. ii 4: asatı kārane kāryam notpadyata stı oükyāt pratyanikabhuto 'rthoh sats kärape käryam utpadyata sty arthod dpadyate abhāoasyahs vakyąd bhdoah pratyanika tit

[^257]:    ${ }^{1}$ Indian Logie never devaloped the sort of doctrines which we clags as 'formal', and its omisemon to concern itself with the 'opposition of propistsoons', in our sense, is a case in point

[^258]:    ${ }^{1}$ Faddegon auggesta, what seems very probsble, that arthdpatts originally "was a notion due to the exigencies of exegesis Where a literal explanation of the text was not possible, one had to go back (apadyate) to the mesning or intention of the spesker (artha) Arthäpatti thus signiffod 'resding between the lines' Later on, arthapattz got a wider meaning, only the drutdrthapatts was a remnant of the old use of the term". Vaifesibes Systom p. 478 footuote.

[^259]:    ${ }^{2}$ The above 18 the substance of what Sridhare asys on diftdrthapatth, NK p. 228 ll . $8-16$ One or two sentences reman unintelligible to me-i have omitted them. Faddegon's transiation of the pareage at pp 479-480 is confused.

    The argument (in the last sentence of the above) is in the affirmative (anvayun) form. The Narydyika tradition makes arthapatti a keoalavyatirest anumdna, e.g. Tarkabhded pp 80-81 the form beag "Devadatts eats by night $;$ because he is fat without estung by dey; those who do not eat by night aro not fat-wnthout-eating-by-day; like so-and-so who ests neither by day nor night and is thin, not bo Devadatta, etc."

[^260]:    'The translation of sambhava by 'probsbility' in this connection is mere error The exsmples given are always cases of quantitatice inclusion of part in whole, and place the meaning of the term beyond doubt. Jhis on NS II. In 1 transistes 'deduction'; but this is too pride a serm. Kerth ILA p. 57 gives 'equivalence or melusion'. I have not met the term in the sense of 'equivalence'.

[^261]:    ${ }^{2}$ NBh p $100 \mathrm{ll} 12-14$ and $p \quad 101$ II. $7-8$ on NS II. 11 1-8 The term sambhava occurs in both these suitras. The reference to arthapatti, sambhaod, etc, in these stitras is a proof that logical doctrines other than those of the Nyatya were already in existence
    ${ }^{3}$ The molnsive quantity is accurately called the avinäbhävin, as being that which cannot exist without the included quantity The smaller of course can exist withont the larger A hundred can exist withoat a thousand, but a thoussnd cannot exist without a hundred In 'All M is I', M ${ }_{18}$ the avinäbhévin, l.e that which cannot exist without $P$ But $P$ can exist without M.

    P on the other hand is the stne $\div \boldsymbol{u}$ d non of $\mathrm{M}-a$ hundred is the' sine cud non of a thousand The sine qua non is that without which aomething cannot exist The avinabhäin is that which cannot exuat without another thing this other thing being tis ame ,uid now

[^262]:    ${ }^{1}$ See Note on the Indian Syllogiem pp $411-412$ For tendencies to a quantitstive formulation in Indisn logic see pp 280-292
    ${ }^{3}$ NE II 11 7-18
    -Sabarabhdsya p. 10120 -For later Mimdihaaka differences of opinion on this topic see Jhs, PSPM p. 72, snd Slokavdrtika, section on abhdva

[^263]:    -Thus objection supplies the motive for the arection of abhaiea into a separsto seventh category by the later Vavdesika and Nydya schoold, soordinate with the sIX positive categories of Praiastapada and the earlier echool.

[^264]:    ${ }^{1}$ In his comment on this Vatsyāyans clearly ennncisten a twofold division of abhāva into sintecedent sad subsequent non-existence but he anskes no mention of the other varieties recognised by the later sohool "Abhävadoattath khalu bhavatı, präk cotpattor avidyamānatd, utpannasya cottmano hēnäd anıdyamānatã".

    The fourfold classificstion appears to be a relatively late doctrine, perhsps dsing from Kumgrils -

    Ksifo dadhydit yan nasts prägabhatoh sa wcyate ndstitl payaso dodhns pradhvamsdbhdva qyate
    gavi yo 'Svadyabhävas tu so 'nyonyäbhäva wcyate
    isroso 'vayave nsmnd orddhskäthsnya-varytedh Jadasfingdisrlipena so "tyant dbhãoa ucyate.
    "The non-existence of curds in the milk is antecedent non-existence;

[^265]:    the non-existence of milk in curds is subsequent non-existence or non-existence after destruction, the negation of horse in the cow is mutual or reciprocal negation, absence on the slope of the head of hardness and excrescence 15 absolute non-existence-non-existence of such things as the horns of a hare " (8lokevartska, abhava, \&-4)

    Stall later, the three varieties 'sntecedent', 'subsequent' and 'sbsolute' were classed together under the general head of samsargabhaiva, the common element in these three being apparently the temporal reference in 'not yet', 'no longer' and 'never' (for atyantabhave 18 explained as traıkdukăbhava, non-exnstence in past, present and futare) 'Reciprocal non-existence' is a
     reference. Bee TB pp. 146-148.

[^266]:    ${ }^{1}$ Jhà, Translatson, Vol. II p 316 NV p 179 II. 7-10, and p 282 11. 16-19 On these technicalities see the next chapter on Sophistical Refutations.
    ${ }^{2} \mathrm{NBh}^{2}$ p. 100 ll 15-17, and p 101 ll .8 .9.
    "abhävo varodhi This 18 comparable with Irasastap $\begin{aligned} & \text { Ias } \\ & \text { acconnt }\end{aligned}$ of arthapatts as osrodhy anumdram I suspect that Prasastapads hes this passage of the Nyäyabhadya un view, sud is delibarately amending V8tsya. yans's teeching. He means to say that what Vatsyasans calls abhioc is in feos arthapatts.

[^267]:    ${ }^{1}$ This difference confirms the anggeation made in the preceding footnote. If the inference through opposition (virodhy anumanam), to a counteracting canse, is to be classed as 'presumption' (arthapatti), the inference through non-existence ( $a b h d v a$ ) has to be differentisted from it. The differentia is that the former infors a positive entity, the latter a negation
    ${ }^{3} N K$ pp. 286-280 The first part desls with abhaiva ss s pramenta, the eccond part with ablidja as a category That is, he deals with two

[^268]:    problems : (a) How do we know the non-existent? and (b) In what sense is non-existence or negation an sapect of resility?

    Both parte wre translated by Faddegon pp 488-498
    ${ }^{1}$ Cf the formulation of inferenec through non-perception (anupalabdhi) by Dharmakirts in the Nydyabsedu p 110-yat aad upalabdhilakpapapräptam tad upalabhyata evely ukte 'nupalabhyamānam tddyiam asad See Note on the Indian Syllogram in Mind XXXIII NS 192 (Oct, 1924), pp 809-400, footnote Sridhara (NK. p 228 II 1-3) eavs "vogudnupalambho fîejabbhāvach na vyabhecarath, ayogyanupalambhas tu ovabhicarats. saty apt theye tasya sambhaed in . Evaith saty abhdoo lingam eve *yEd, avinabhävagrahapardpekpatpatt "

    Bridhars's yogya is Dharmakirti's upalabdhulakqanapripta.
    This is the later Naryayika view Hitherto he has been arguing eganat the Mimdmaakas.

[^269]:    ${ }^{2}$ The Mmatheakas, agan. The passage wheh follows (NK p. 227 from 1. $2=$ Faddegon pp .486 and 487 ) 18 dufficalt, and Faddegon's otherwise sdequste transistion of this section is in part confused here.
    ${ }^{2} \mathrm{Cf}$ the statement of Sabars cited sbove, p. 898

[^270]:    ${ }^{1}$ Aceepting Faddegon's emendation (p 486 footnote 3) na cadvidua-
     ranam) NK $P 227110$.
    ${ }^{3}$ The instruments of spprehension are of two kinds first, those which are instrumental to knowledge without themselves being known-as the organ of vision is instrumental to perception without our making it an object of apprehension secondly, those which are instrumental to further knowledge through being themselves known-like the middle term of an inforence (Thıs classification of pramänas 18 given by Vacaspestı Míra, and is evidence of the vague character of the Indian conception of pramana It 18 clear from this that pramäna cannot be rendered 'proof')

[^271]:    apprehension, bat that the past non-apprehension still subsiats and that it is by this, which slone is fitted to determine a non-existence belonging to past time, that the thing's sbsence on the previous occasion 18 determined 'The suggestion betrays remarkable knowledge snd msight I Non-spprehension is 'sntecedent sbsence' (pragabhäia) of epprehension, and as such has its termunstion in apprehension, and 18 one and indivisible, not to be duatunguahed by temporal differences into 'past non-apprehension' and 'present non-apprehension The exceeding subtiety of the distinction mrolved in asying that the present non-apprehonsion comes to a stop while the past non-apprehension subsista is of a land only to be apprecisted by persons who (like the opponent) have wita as sharp as the point of a blade of kufagrass (kufagriyabuddhi)!

    Thin pasagge (NK p. 227 ll. 14-95) was not worth embodying in the above aummary of Bridhars's argament, but is given as asample of tenthcantury polemica.

[^272]:    ${ }^{1} T$ The paychology is wrong; but the distinction between 'simultaneous' and 'successive' associstion is noteworthy.
    ${ }^{3}$ The normal man fails to see what is before his eyes in cases of sleight of hand. The suggestible patient cannot see what is before his eyes when he is told thet it is not there. Undetected physical conditions and psychological mhibutions may be prement to invalidete the negative judgment and the inference by which we justify our belief in it.
    "And in mernory. The Indian achoola refuse the name of pramane to memory. on the groond that the original apprehension was the pramesa.

[^273]:    ${ }^{1}$ See NS V 1. 81, where this is explicitly stated infra, pp 868- 365.
    The word 29 derived from tit ha, two partacles Cf . the word stshdec meaning 'legend' the word is simply the tit ha $\mathbf{a} \varepsilon a$, 'and it came to pass', with which traditional tales are introduced.
    ${ }^{4}$ NBh. p. 100 1. 8 tit hoour sty ansrdertapravaktpkan pravda plramparyam atikyam.

[^274]:    ${ }^{1}$ Of Plato, Resp, 889 B and $\mathbf{C}$, where digcusgion is contrasted with refatation and contradiction.

[^275]:    ${ }^{2}$ Vatsyigana clearly suggests an etymological explanation of the term fati in the word , dyate But although pith is derived from jan, there 18 mothing to reoommend the suggestion that this particulsh sense bf fata meatis 'something genersted or prodnced' from a logical reason

    Popenbly, the word $\boldsymbol{f}$ ats, general nsture, comes to have the mesang At a maraly dialectical argument becanse, snch arguments arise from appeal tq, mpre generalities, which "give forth directions too much at large" to sonstifute a determmste remson pidepahetwh capable bo lesíng to e detarrinitif, concluangs
    ${ }^{2}$ NS I. in. 18 taderkalpds jatengerahasthánabahutvam.

[^276]:    ${ }^{1}$ Gee Jhi, Translatipn, Vol. यv P 279, foomote. He ststes thst the Partuddhs discousees the question whether the supject of the fifth book iq defintion or examination, and that Udayana decides that it is definition He also cites the ressons given by Vicaspati for the postponementi- of the

[^277]:    ${ }^{2}$ There is nothing to shuw that the parallelism between the systams is due to historical contact. There is generai likeness between the Sophustict Elenchs and the fifth book of the Nyayaeilica. But this mort of thing is not evidence of connection.
    ${ }^{4}$ Of. H. W. B. Joseph, Introduction to Logre, (2nd edn., Oxford, 1916) pp. 586-687. See also page \$68 infra.

[^278]:    ${ }^{1}$ To be diatingurbed from the two types of fallacious middio term (hetoabhasa) which bear the asme names, and are described in NS I. ni. 7-8.
    ${ }^{3}$ For the Banskrit names of each type see corresponding numbers in the hat quven above.

[^279]:    ${ }^{2}$ VItayayans on NS II. 1162 sayg that jutt cannot be spprehended apart from the individusl (vyakts) and the 'form' (dkyti); though both he and the siltrakdra (NS V 1. 14) accept the doctrine that the unversal ghere called sdmainya) ill sn object of perception (andryyaka). and on NS II. fi. 65 he asys-following the aintra-that the akfts or determinate collocstion of parts is the sign of the oniverstl (jatulsiga), and adds that dirced padend gdm anuminvanti, "people unfer a cow by mesns of its head and foot' : which in not quite easy to reconcile with the present alitra. Vitaydyana on NS III, in 65-66 echoes the language of the Vaifapikasiltra (as pointed ont sbove, page 7 note) in describing juth as sumanyavifefc and characterising it as pratyayänuprtionumitte.

[^280]:    ${ }^{\text {I }}$ I do not see how this is to be reconculed with Vateynyana's own statement as asted in the preceding note. I take it that he hore slipe into spoint of viow which he did not really hold,-under the ummediate necessity of finding a meaning for the aftra.

[^281]:    ${ }^{1}$ The dialecticisn's assertion here 18 , not that the particular dratinta used by the defendant is defective, but that any drftanta is as such defective,-kdrañinapadesiat, "becsuse it does not deciare a cause", as the silta puts it. or, as Vatsybyans pnts it, "becsuse a remson is not declared, and without a reason there 18 no entablishment (hetum antarena orddhir nasti)" That is why Vasteybyana assugns to the second member of the syllogism the specific function of declarng probativeneas (addhanatargacana). Eising the language of the present passage he might have aald that its function is kā̀rapäpadeda or hetvapadéa, i,e to declare that there 18 a hetu, a reat reason or probans, manfest in the drotints
    -he present passage, in conjunction with the use of apadefa in the lists of tantrayskts's in the sense of 'pointing out a canse'; sppears to throw light on the use of the words apadeda and anapadeda in the Vaideqike Satra, in the senses of hetw and hetodbhdsa.

[^282]:    ${ }^{1}$ For which see page 197 supra.
    20ertainly a referance to the doctrine as tanght in the Faisegina school.

[^283]:    ${ }^{1}$ Vitayiyans doee not commant on this part of the saltra. This's tranalation seems to masunderstand it.
    ${ }^{2}$ As shown under No. I, sadharmyasame. Sound resembles univeraals (whrch are eternal) in being Dercentable. So that sound presents the com-

[^284]:    binstion of percoptabilty with dependence-on-volition. If perceptibility ware comfined, to eternal things, there would be a genuine antinomy (oiruddhdoynbhicarin, satpratipakfa) (or, as Prafastapada pute it, the combunstion of propertiou wonld be, as smeh, pecular to sound (asdidharana), and there would ge the anadhyapasita fallecy). Bnt of course percoptibility is not avyabhicarin with reference to efernality.

[^285]:    That is to asy the argument would come under Uddyotakarn's rubrio of aevdyamanasapak $\ddagger a v s p a k p a$, an argament in whoh neither positive nor negative evidence is available, snd which is therefore invalid It was afterwards known as the anupasasthedrn fallacy.
    ${ }^{2}$ The true reading is supphed by the Banares 1990 edition-sataf $\infty$ nityänstyabhäodd, etc. The Vizianagram test has tatad ca, ote.

[^286]:    ${ }^{2}$ The Bauddha would not wish to deny this; though the Mmashsaka would. It looks as if the dislectical opponent here were a Mimansaka, it the text is nght. But perhaps the Batddhe would wish to deny is merely beckuse the Naiydyika mafntain it.

[^287]:    ${ }^{2}$ Both Uddyotakara snd Vicaspati Miśra felt mome dufficalty in distingusshing this from the prakarapasame jati, No. 16. The difference (which both of them indicste) is amply that in No. 19 the emphasis is land on the potentsalsty of an antinomy, whereas in No. 15 the aotual antinomy is asserted as the basis of the rejounder. The point in No. 19 is the arbstrarsness of choosing one ont of two possibilities. Nothing is sald of the cogency of aither; poasibulity.

[^288]:    ${ }^{1}$ It has in fact been used by an opponent in the section on the ampor manence of aound, NS II. 11. $19-21$, and V. 180 is identical with III. n. 91.

[^289]:    ${ }^{1} \mathrm{Or}$ a cognition of doubt. In the case of knowledge of our own states the distinction between cognition in the form 'ghato 'yam asts', and cognition in the form 'ghatam aham jānämi' can hardlv arise so that it does not matter how we render samsayajuänam.
    ${ }^{3}$ Pratyakşanumänagamasmftyñânequ Smrtı mught mean memory here, as Dr Jbs renders at-Thas is clearly intended for a commen sense and not a philosophical list of the sources of knowledge. Otherwise upamdna would be meluded Smrti is not, for the Indisn phlosopher, a separate source of knowledge, if empth mesns memory though it is so for ordungy thinking.-If smfts mesns scriptural suthorty, it was not necessary to mention it egam, for it is as mere synonym of dgami (Possibly the readiag is wrong, snd we ought to read-opamanarmiti.-Or else agamasmitti, 'teestimony and sorrptare' together as a phrase, =tabda.-The Bhafandya Nasyayikas of later times dud not admit upamanc. Perhaps this paseago reflecte an earlier tendency to 1 gnore 1 t .)

[^290]:    ${ }^{1}$ A phrase from Prabhakara quoted by Dr. Thet in his Prabhakara Gehool of Pirva Mimdmed. Dr. Thi however points out that the Mimdinsaka cllows that atates of mind are objects of mference, though not of perception. We do not percerve them, but we may infer therr exiatence, so that they can become objecte of inferential knowledge.

[^291]:    ${ }^{1}$ eg. Bhafyla on II. 11. 1-2, III. $u_{+} 81$
    ${ }^{1}$ Bee Bhaspa on I. 1 4, and pages 101-108 supra.
    ${ }^{*}$ Fragment B. See above, footnote 4, page 102.

[^292]:    ${ }^{2}$ Reeding with the Benares 1820 edn. sidharmyded asiddheh pratiqedhestddhih pratifedhyasdiharmyāc oa.

    The Vis., text real pratisedhyassddhig. It notes the omission of oa es an MS variant.

[^293]:    ${ }^{1}$ The Nyayasatravitit reads this satra (V. 1. 41) Pratwedhaorpratipedhe pratizedhado savad dozidh.
    The Viesanagram edn. slso reads this. But the 1020 edition reads the siltra differently in connection with the Bhäpya, though in connection with the Vftts it gives it in the above form. As connected with the Bhefya the slltra is given as -

    Pratşedhe vipratspedho pratipodhadosavad dopach.
    This must be a mere error, for on p. 509 1. 19, when the setra is cited In the Bhafya, it is read in the other form.
    "Bo the Bhdya.

[^294]:    ${ }^{1}$ I do not mean that it is sdentical with, or even closely resembles, the Aristoteluan conception of what demonstration means.

[^295]:    ${ }^{1}$ Professional men debated as well as philosophers. Caraks in bis work on Medicine has section on debste in which he points ont under what curcumstances it 18 advisable to enter the lists, and what expedients are to be employed. No doubt Vasubandhu's lost Vadavidh, Vadakausalya, and Vadamdrga corresponded in contents wrth this section of the Caraka Sahhted

    > Whe soven heads ander which the 89 nigrahasthanas are here grouped are Vacsopati Mirs's arrangement

    The Eanglant names sre -

    1. pratifulhdms 13
    2. pratspudntara
    3. pratrjutusrodha
    4. pratisfideahnydsa
    5. hetvantars
    6. arthantara
    7. nirarthaka
    8. avspatidertha
    9. eparthaka
    10. apriptakila
    11. सy inta
    12. adhile

    13 (a) punarukta
    (b) punarpacana
    14. ananubhd\&aña
    15. afalana
    16. apratibha

    17 Dikzepa
    18 matanujhä
    19. paryanuyojyopekqapa
    20. пыгапแуотуส̈ทиуоga
    91. apastddhdnta
    29. hetvabhdea

