INDIAN LOGIC IN THE EARLY SCHOOLS.

INDIAN LOGIC IN THE EARLY SCHOOLS

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

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Καινών γε τδυτο. λαμπάδια έχουτες διαδώσουσιν άλλήλοις δμιλλώμενοι. 'άξιον θεάσασθα....Και ξυνεσόμεθά τε πολλδις και διαλεξόμεθα. άλλα μένετε.

-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 epistemology), and does not, unless incidentally, deal with the physics and metaphysics of the Nyāya and Vaišeşika 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 Vācaspati Mistra'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 Nyāyabhāya (Benares 1996): the Bibliothces Indica edition of the Nyāyavārtika (Calcutta 1907): the Vizianagram Sanskrit Series edition of the Nyāyavārtikatātparyaţikā (Benares 1898): the Bibliothces Indica edition of Sabara's Bhāya on the Mimāmšā (Calcutta 1889): and the Vizianagram Sanskrit Series edition of Prašastapāda's Bhāşya on the Vaišeşika, and Srīdhara's Nyāyakandalt (Benares 1895). References to Kumārila's Slokavārtika and Pārthasārathi Miśra's Nyāyaratnākara are to the section and verse, the edition used being the Chowkhamba Sanskrit Series edition (Benares, 1808-1809). Some of these are pioneer 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 Nyāya 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. Priyantän guravab.

The conditions of the possibility of this study have been principally provided by three writers on $Ny\bar{a}ya$: Dr. Gangänätha Jhä, Professor Keith, and the late Satis Candra Vidyäbhösapa. Without Dr. Jhä's translation of the three basic works of the ancient $Ny\bar{a}ya$, 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. Vidyäbhüşana provided the indispensable detailed annals of the school, and an unvaluable pioneer account of *Bauddha* logic.

I regret that I have altogether ignored Jaina logic. It may be that its earlier 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 pattence and courtesy in dealing with the difficulties of printing the book; and to my wife for assistance in compiling the Index.

ABBREVIATIONS USED IN CITING CERTAIN WORKS

J Bomb R A S.	•	Journal of the Bombay Branch of the Royal Asiatic Society
J. B. A. S.		Journal of the Royal Asiatic Society
J. B. A. S. B		Journal of the Royal Asiatic Society of Bengal.
Jhā, PSPM	·	The Präbkäkara School of Pürea Mimāmsā, by Gangānātha Jhā
Jhā, transl	·	Translation of the Nyäya Sütra, Nyäyabhäşya, and Nyäyavärtika, by Gangänätha Jhä
Keth, ILA		Indian Logic and Atomism, by A B Keith
MS		Mimämsä Sütra of Jammini
NBh		Nyāyabhāşya of Vātsyāyana
NK		Nyayakandali of Sridhara Misra
NRA		Nyāyaratnākara of Pārthasārath: Miśra.
NS		Nyāya Sūtra of Gautama
NV		Nyäyavärtika of Uddyotakara
NVT	•••	Nyäyavärtikatätparyatäkä (briefly the Tätparya, of Väcaspati Miára
NVTP	·	Nyäyavärtikatätparyaparisuddhi of Udayana (briefly, the Parisuddhi).
PBh		The Bhāşya of Praśastapāda on the Vaiśesika system.
Sl Värt	•	Slokavärtska of Kumärsla Bhatta on the tarkapāda of the Mimärisä.
SDS		Sarvadarsanasamgraha of Mādhava
TB		Tarkabhāşā of Keśava Miśra
V8		Vaiseșika Sütra of Kaņāda.
Vidyābhūsaņa, HIL		History of Indian Logic, by S. C. Vidyäbhüşana
Do. MSIL		Indian Logic Mediaeval School, by S. C. Vidyä- bhüşana.

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HISTORICAL INTRODUCTION

TT 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 last thirty or forty years 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 Hindu Philosophical Systems (Calcutta, 1859) identifies Uddvotakara, whose date is now fixed about 600-650 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 Kusumänjali. Peterson in 1889 was still able to suggest that the Buddha himself was the author of the Nyayabindu, which is in fact the work of Dharmakīrti, a near contemporary of Uddvotakara, 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 sutras

Of the six Brahmanical systems of philosophy five make their first appearance in literature in the form of sutras, that is, collections of brief texts or aphorisms each one of which stands for more than it savs, 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 Therefore, as has been pointed out', there are them. two chronological problems, which must be kept distinct, in connection with the sūtras. 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 sutras 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 sutras as finally compiled. It is quite possible that a sutra which we conclude to have been redacted at a rela-

2

^{&#}x27;H. Ui Vailesika Philosophy according to the Dafapadärthafästra. pp. 11-12

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'. This is undoubtedly the case with the terms nuāva and tārkika, which were later applied specifically to the Nyāya school, but in the earlier literature refer either to the Mimämsä or else have a general meaning. In the case of the term Sainkhua (which had a very long history) it has been suggested² that the name was originally given to any speculative doctrine which professed to achieve salvation by way of knowledge (*jñāna-mārga*), as opposed to the doctrine of salvation by works, ----of which yoga may have been a quite general appellation

"Franklin Edgerton, Sämkling and Yoga in the Epic, Am. Journal of Philology, 1924.

The Similary Karisi appears from Chances sources to be the work of an earther contemporary of Varabantiku-"unbuyersam, that is its any Iferen-Krapa An account of perception referred to at NY p. 65 114 (fortridirptic tri) a called Vergeographic fielderme by Vacasgara Mifers at NY P. 103, 1.10, and he is pertapen esting Varagarys in the works perconform failed individual millisterap approaching the individual structure of the terms are Varabayer of the structure of the structure of the terms are the structure of the structure of the structure of the individual structure of the structure of the structure of the individual structure of the structure of the structure of the terms are the structure of the structure of the structure of the individual structure of the structure of the structure of the work-the septimetre-, and we have avereal references to and cutations from hus. Bee Kath Schnideg System pp. 64-84, Wood SYBP p. T.

For 'Vindhyavāsin' see Slokaedriska, anumāna, 143. The reference m not clear, but might be to Sönkkya Kārkā 5-6. But the equation Vindhyavāsin- livara Krapa is not establahbed.

¹Pandris say that Yogáh (piural) was used as an early designation of the Fuisefake action. I am underlied to Mr Kayerssiskandra Chaptedhiyra, lecturer m Sanakri un the Allalabad Unrwersiy, for drawing my stiestion to Fogéh and the Nyighabhaya and which Yaisyinan attributes to the Togéh (M. Bh. p. 38.1.6, on NS I. 1. 39). Bos has note on A Facular Meanus of Yoga, (publuked ance this was written) in FARS, Oct. 1927, pp. 864-833.

If then indications of the late redaction of a sutra are not inconsistent with the early systematisation of the doctrine taught in the sutra, 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 Sūtras¹ confines himself to the question of the period at which the sūtras were redacted, and relies principally on the passages in certain of the sūtras and earliest commentators which are directed against Buddhist doctrines. Stcherbatsky² 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 vijñānavāda school of Buddhist philosophy, and that, as this doctrine was developed by Asanga and Vasubandhu, the sutras 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 nihilistic

4

^{&#}x27;Journal of the American Oriental Society xxxi, 1911.

Epstemology and Logic as taught by the Later Buddhut, Si beerborg, 1905. This is in Russan; but s communication from Scherbesky summaring his arguments is embodied in Jacob's article above referred to -Scherbeitsky's work has now been translated in German. Urbited by Scherbeitsky in which has definited by Scherbeitsky and the scherbeitsky an

or *stinyavāda* doctrine; and Stcherbatsky has recently¹ admitted the correctness of *Jacobi's* conclusions, though still interpreting the *Nyayasütra* as arguing against idealism of an early type².

The terminus a quo for the redaction of the Nuāvasūtra and, the Vedāntasūtra, and for the early Mīmāmsaka commentator-the 'vrttikāra'-whose polemic against the Buddhist doctrine is cited in Sabara's Bhāsya on the Mīmāmsā Sūtra, can therefore be pushed back to the period (sometimes identified with the time of Nagarjuna) when the Sunyavada philosophy developed. Two of the sutras.--the Mīmāmsa and the Vaisesika-, do not polemise against Buddhism, so that their date cannot be determined by this criterion The Sāmkhvasūtra is admittedly a modern compilation, and plainly polemises against the developed vijnānavāda. The Yogasūtra liv 14-21) is said by Haughton Woods' to attack the idealism of the viinanavada : and it is plain that the Bhāsua has the viinānavāda in view. Woods relies on this, and on Vacaspati's explicit reference to a rijnanavadin vainasika. But he admits that the sutra 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 Nyāyasūtra and the Vedāntasūtra are polemising against the vijnānavāda : and Jacobi's arguments against this view are cogent'.

¹In his Addendum to Chapter I of his Epistemology and Logic of the Later Buddhiets, contributed to the German transistion of that work (Brienniunstheorie und Logik nach der Lehre der späteren Buddhieten · übersetet von Otto Strauss : Mänchen-Neublerg, 1924, pp. 239-266).

"For his present views see below, pp. 29-81.

"James Haughton Woods Yoga Systems of Patafijali, pp. xvii-xvia. He says: "the fact remains that the Stirs is stateding some idealst". The fact, I thunk, is that the Yogawifer as there stacking the idealistic moment which, as I have argued below, was an element in the förspordde, from the first.

⁴Jacobi hunself however holds that the Yogastira passage is more saaily interpreted if a reference to esificinaedds is supposed. But the

Vidvābhūsana¹ has pointed out striking parallels in phraseology between Nägärjuna's Madhuamikasūtra and the Nyāya-sūtra, which (as he supposes) show that the Nuāua-sūtra was redacted after the time of that writer. If this is so, the Nuāyasūtra in its present form falls in the period between Nagarjuna and Vasubandhu²

Relations between the different sutras.

It is sometimes held that the sūtras (other than the Yoga and Sāmkhya) 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 Vaišesika, at any rate, was redacted at a comparatively early period.

Nyāya and Vaišesika

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". Again the doctrine which it teaches owes nothing to the Nuāya, whereas the Nyāya sūtra reproduces the physiology and physics of the Vaiseșika-sūtra, in some cases repeating actual phrases from the latter in a way which proves indebted-

'Vidyšbhūsans, History of Indian Logic, pp 46-47: Nyāyasūtra of Gotama p. x. Parallelisms with one or two lines in the Lankkāvatāra which he points out are, as I argue below, of no value as evidence. *Keith, Indian Logic and Atomurm, pp. 22-35. *The same consideration might be thought to prove an early date for

the Mimäshad Sutra. But absence of reference to the Bauddha schools here could be explained by the fact that the Mimdined Sutra is not a system of philosophy, but of exceptions. MS I 1 5 refers by name to Badaršyana, the reputed author of the Vedanta Sutra : though this in itself proves nothing.

supposition does not seem necessary, and other arguments which he adduces for a relatively late date (450 a.D.) for the relaction of the Yogostira are perhaps not conclusive. His argument is however cogent against the late tradition which identifies the author of the Yogostira with the author of the Mahābhāsya.

ness'. Had the Vaiśesika-sūtra been redacted later than the period of the systematisation of the Nyāva. it might have been expected to show some trace of Nyāya influence in its logic. But-though Vaišesika logic is a more developed doctrine in the sutra than is sometimes supposed—it shows no trace of Nyāya

which he

und adhyāya of NS, which summarises Vaidesika physics and physiology in the course of an argument to prove that the soul is other than the body, the senses, and the mind '-VS IV 1 8 is identical with NS III 1 39 (anckadravyasamaväyäd rüpavisesäc ca rūpopalabdhih—a docirme typically Vaisesika).—Ui's other parallels are — NS II 1 54=VS VII, 11 20

NS 111. 1. 28=VS IV. n 8 NS III 1 35 = VSIV 1 6-18 NS III. 1 68=VS П і. 4-5. NS III. 1 71=VS VIII. n. 5. NS III. n. 68=VS VII) 98 NB I. 1 10=VS III n. 4.

In view of such parallelisms it is fair to say that the 'syncretism ' of the Nyāya-Vaisesika begins with the Nyāya sūtra itself Vātsyāyana regarded the two sutras as complementary

VS VII 11 20 says sämayskah šabdād arthapratyayah NS II. 1 54 says na, sāmayskatvāc chabdārtha-sampratyayasya The parallelism here is, as U1 rightly claims, " not doubtful "

The rather curious phrase bidiyastedd in NS III. 1 71 must be repeated from VS VIII n 5 (The sutra in the Vizianagram edn is III. 1 69 NS III : 63 (ie 61.62 in the Viz edn) very nearly sums up the Vasterika doctrine of the special objects of the senses NS I 1, 10 is a simplified version of the doctrine that the soul is inferrible from psychical qualities, omitting the philosophically dubious first part of VS III. 11 4 with this omission the two stars become identical. NS III. 1 28 repeats the teaching of VS IV 11. $_{2,3}$ that the body is composed, not of many elements, teaching of VS IV 11, 2-3 that the body is composed, not or many elements, but of one, vu earth. NS till 1 38 is obscure but is interpreted by VŠtayš yans as stating the doctrine that perception is limited to things which have magnitude and 'manifest form',—the doctrine taught by VS IV. 1. 6-18. NS III. 11 63 (=69 in Viz edn) teaches that 'mind' is atomic for the reason given in III ii 60 (=59) i.e. that we cannot have more than one apprehension at a time while VS VII, 1. 23 save that 'mind' is atomic because it is not all-pervading (vibhu) like other and the soul

A striking likeness to the Vassesska which Ui does not note is in NS V 1 14, which teaches the characteristic Vaisesika dectrine that the universal (sdmdnya) is eternal and perceptible by sense (aindriga-Latea) -On the other hand NS II u 65-66 shows no trace of the Fasteanks doctrine of the universal and of Vassesika terminology, though Vatsyawana in his comment ad loc plainly echoes the terminology of the Vaidesika Sütra (e.g., anekatra pratyayānuvritimmittam).

The indication here is that NS II.11.65-66 is teaching a pre-Vauleeika doctrine of the universal, while NS V 1 14 is teaching a met-Vaulanka doctrane

influence. It seems certain that the Vaisesika, both. as a system and as a sūtra, is earlier than the Nyāya,

Nyāya and Mīmāmsā

Keith points out that the Nuāyasūtra shows acquaintance with Mimāmsaka 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 Mimämsaka 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 reduction of the Nuāna and Vaišesika sūtra; and it seems probable that the terminology of exegesis which we find in the Mimāmsā sutra-together with these doctrines-are older than any of the philosophical schools. But no indication as to the date of redaction of the Mimāmsā sūtra can be drawn from the Nuāva and Vaišesika polemic. There is nothing however to prevent us from assigning an early date to the Mimämsä sütras, 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 Mahabhārata : and not much weight can be attached to the argument from silence here'.

Nyāya and Vedānta

The relation between the $Ny\bar{a}ya-s\bar{u}tra$ and the $Ved\bar{a}nta-s\bar{u}tra$ may become clearer when a careful comparison shall have been made between the polemical passages in the two $s\bar{u}tras^2$. Keith states

Bee Keith, Karma-Mimämsä, pp. 5-7.

^{*}Vedente-surs, first and second padas of the second adhysys : Nydyd-surs, schydys III, and IV.

that Gautama is familiar with the terminology of the Vedānta-sūtra', and he finds in the Vaisēşika-sūtra references to the teachings, and reminiscences of the phraseology, of the Vedānta-sūtra de On the other hand the Vedānta-sūtra has a definite polemic against views found in the Vaiseşikasūtra': and Jacobi has shown that its polemic against the Bauddha corresponds to the polemic in the Nyāya-sūtra', neither being directed against the later vijānavāda doctrine; while the Vaisėşika-sūtra contains no such polemic. The indications seem to be that the Vaiseşika-sūtra is earlier than the Vedānta-sūtra, as it is earlier than the Nyāya-sūtra: while the two latter sūtras may have assumed their present form at about the same period.

Origins of the Nyāya

When did the $Ny\bar{a}ya$ doctrine begin to exist in a form recognisably continuous with the doctrine as we have it in the $Ny\bar{a}ya$ -sitra *i* In other words, what is its systematisation-period, as distinguished from its redaction-date *i* In order to clear the ground for this enquiry it is first necessary to ask what is specially $Naiy\bar{a}yika$ in the $Ny\bar{a}ya$ doctrine. For its physics and physiology and psychology are not specifically its own, being from the first indistinguishable from those of its sister-*sastra*, the Vaisepika. What

¹Keith, *ILA*, p. 25. The only parallel he gives is NS III. 11. 14-16-Ved. S. II. 1 24. But this is only the 'stock arample' of cords avanag from milk, and does not amount to evidence. The Bhagasadgiti 18.5, 15.16, speaks of a brahma-shirs and ceddita-kri.

¹op. oct. p. 24. "Kankda declares that the soul is not proved by scripture slone, that the body is not compounded of three or five elements, and his use of sedgd "gunonaco", and pretigadisme individual sell' is remniscent of the Brohme Sätra "-The iteraminology and the doctrines mentioned may well be earlier than the Fedding Sätra."

[&]quot;Ved. S 9. 9 17 is a sneer at the Vaidentka, not at the Nydya.

[&]quot;See footnote 1 p. 98 snfra.

characterises it specifically appears to be primarily its development of the ' $ny\bar{a}ya$ ' 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 Vaisesika, 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 vounger sāstra to supplant, as it did, the elder : of which it may perhaps fairly be called a revised The importance of the Nuāva therefore is version in its doctrine of the pramānas, or sources of proof, and in its formulation of the nuāva, or method of demonstration, from which it took its name. It is therefore correct to regard the Nuāva as, above all else, a school of logic.

The question then amounts to this. When does logic, as taught in the Nydya-sitra, first make its appearance? There is a reference in the Mahābhārata which is quite definite :—

pañcāvayavayuktasya vākyasya guņadosarit¹.

"Knowing the virtues and defects of the five-membered syllogism." It is not possible to doubt that we have here a reference to the specific Nyāya doctrine

Quoted by Vidyābhūsaņa in his Nyāya Sūtra of Golama, p xvi. The reference in Mahābhārata, sabhāparea, adhyāya 5 (ii v. 5) The same pasasge has a reference to the Romans, which suggests a late date

[&]quot;Vulyability can be several other passages from the Mahibbarot which refer to a kerkdafter, arkevidys, heuddafter, derikkeit sygkeikäg, sto. But in none of these can we be quite sure that the reference is to our Nyäpe proferation of these can we be provide the store of the store of the proferation of the store of degrees first and empiric and Kullika Bhays orphane and an a reference

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 Mahābhārata may be as late as 200 A.D.

In the medical works of Suśruta and Caraka, and in the Arthadástra attributed to Katuljya, there are lists of tantrayukti, that is to say methodological technical terms used in the particular tantra or šástra : and one of these,—the tantrayukti of anumata, i.e., the principle of tacit acceptance, 'what is not denied is admitted—is quoted and used by Vätsyäyana'. The names of some of the tantrayukti figure in the terminology of the Nyäya'': but the accounts given in the lists themselves do not tally with the meanings which the Nyäya assigns to the terms, and the lists are clearly independent of the Nyäya. There is no trace of system underlying these collections of more or less technical terms, and nothing of logic in them. —There is however a section in Caraka's work devoted

¹NBh p 16 l 9 paramatam apratieiddham anumatam iti hi tantrayuktih Vidyābhūşana, HIL pp 24-26

³eg prayojana, sambiaya, nurgaya, paddriha, upamāna, arikāpatis, prasanga, ekānia and anekānia, heivanika, apadela, uddela, nudarlans, viparyaya.

to Christika and other scopits (Mann II. 11). To other pisces be incusts on the use of torks-on-tomburg with reds and dhermafatra-as ensembla (XII. 100), enjons the study of ävelkejki žénsevskyl on a kng (VII 43), and asyy that hattskis attristika straft should be somog the members of a persed (XII 111). None of these passages need refer to the logic of the Nygis sitter \star thiough Visuly and assess to refer to Momenyrit VII 45 when he claums that the dynamic strategy of the strategy of t

Each het goves definition with examples Sustrats's examples are taken from medicate, Kaujuy's from his own Advre. The lasts do not agree in the meanings stated to the technolities and lower. The black approdate. Knuthys may seem safe also sty appended. and he illustrates it by a quotaton ending it. Kaujuya. Soo Sutvin, ulteratorates do, Caraka, eddateAma, 19, Kaujuya erkhafstren 18th adhikarden of let adhydge (Mysore och. p. 424).

to strictly logical conceptions, the teaching of which perhaps represents a popular version of the Ngúya, divested of all subtleties and adapted to the understanding of the layman¹. But here again the date of Caraka's work in its present form is so uncertain that the passage does not help towards fixing the systematisation-period of the Nyúya. The same may be said of a supposed reference to the Nyúya in the Müindapoňika, where King Milinda (Menander of Bactria, c. 150 s.C.) is said to have been versed in Sánkhya, Yoga', Niti, and Vaiseşika. Niti, in the context, may mean Nyúya; 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 $Ny\bar{a}ya$ as a system, though the word $\eta_{a}y_{a}$ occurs either in the general sense of a decision

"See note 1 to page 3, above. Yogo cannot mean Vaiferiks here, seeing taki Yaterika as separativy mentioned.—"There eccents to hen oreason to take stits in any other than the usual sense of mit-fortr. Sörkhop and year here may have the wifer significance which Edgermon would then refer to the doctrane of asivitano by knowledge, the doctrane philosophy. That as, of the philosophical systems are sense here then, it forts to constrain the rure shore suggested as to the priority of the Yaterika to the other (developed) systems. If the suther of the isolation of the indeveloped here the sense there in the sense trees of its longest method in the work.

[&]quot;Vilythblesen's enggesten that it embeddes "the principal decision of Articles possible properties of Mediatum Granden procession of the Mediatum Granden procession of the Articles and Granden procession of the Articles and Comparison of Articles and Articles and

or conclusion, or in the special sense of Mimāmsā principles1. The Buddhist Pali Canon gives the impression of belonging to a pre-logical phase of thought : and this is true even of the Kathāvatthu, in which we find some terms which are familiar as technicalities of the Nyāya system, e.g. pratijnā, upanava, nigraha, nigamana, upamā. It cannot be said that these are not used as technical terms, for their application is systematic²: 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 being 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 1-16); a five-phased argument pro.

Weth, ILA, pp. 16-11 Gaux Kuth m ILA pp. 16-11 Gaux Kuth m ILA pp. 18-14 speaks of these as terms " which later m Gaux Kuth m ILA pp. 18-14 speaks the star process which as the general asset", but m his Schultz Philosophy pp. 36-14 is written m this connection " we may suppose a contemporary lopic, but nothing of t is add." . Varybikupas, HILD public 294-240, gives a sample of the Eatheenthis method of disputation in connection with which these terms are used—The Ratificatifits has been translated under the title Point of Controvery (Pal) Text Society, 1015, edited in the same series of publications, 1864-70, and a node on the 'logic by Aung as contributed to the profess.

a five-phased argument contra, three modes of the proargument, and three modes of the contra argument'.

There is method here-too much of it⁴-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 Bhadrabahu," and probably in the tenmembered method which Vatsvävana attributes to certain methodologists (naiyāyika). The Kathāvatthu, 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 logic was preceded by attempts to schematise discussion, attempts which were inevitable in view of the habit of organised public discussion which prevailed in early India, but which could not succeed until the nerve of argument had been separated from the irrelevances in which the early methodology obscured it, and plainly exposed in a formulation of the syllogism'. When that was first done a genuine logical analysis began to exist. But there must have been a period of tentative groping after logical

and fifth phases, just as the upprogram and measures are fourth and fifth members of the syllogum. The vertue of its method, the Kabdeetthu is maniferably tedious "The she almost by fact Boddhust tradition for the Kabdeetthu "The she almost by fact Boddhust tradition for the Kabdeetthu "The she almost by fact Boddhust tradition for the Kabdeetthu "It is of course a true observation of Locke that God (4 ret nake make them rational. Children and savage reason as well as lognatar don make them rational. Children and savage reason as well as lognatar don Arstells and Akaspide almost how how reasoning a fone; thereby schedung, not indeed how to reason, but how to argue. The syllogum a not the universal from drawts the transition from a pre-logial to a logical method of argument, on tait breakently to a stage in which references in not loweried. Each can talk irrelevantly to a stage in which irrelevance is not tolerated Early argument is incredibly irrelevant and tautologous.

^{&#}x27;It is worth while to point out that the number of the phases in a nigraha corresponds to the number of members in the Nayayika syllogism, and that the upanag-phase and nigramon-phase in the nigraha are fourth and fifth phases, just as the upanays and negamans are fourth and fifth

method before it was achieved. This period is marked by a work like the Kathāvatthu, 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 Kathāvatthu is representative : though some of the terms which afterwards became vehicles of genuinely logical conceptions were already being used systematically² 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 Nagarjuna (whose Madhyamika Kārikā is a really powerful piece of dialectic) thought and discussion had been completely logicised : and he uses terms' which are definitely technical terms of logic proper. His date is still somewhat indefinite. Hi places him about 113-213 A.D., on a computation of dates given by Kumārajiva and his Chinese disciples⁴. Keith however, with Jacobi. assions him to a date about 200 A.D., on the ground that

e.g. the use of addhyasama in MK IV 8-9. I am not sure whether the term is used here as the Nyāya stara uses it. The Kärikäs are difficult to interpret and demand intensive study. But that it is a genuinely logical conception is certain.

⁴U1, VP, p 43, Kumärajiva went to China in 401 AD and was the earliest transitor into Chinase of the works of Nägärjona, Äryadeva, and others. He was the chief translator of the works of the Sänyarödd (Ui, VP, p 3r. 3, and p. 43 n. 1).

^{&#}x27;It might be suggested that a vernacular sectarian hierature like the Buddhist Pák Ganon was in fact provincial and representative of a lower stratum of contemporary culture.

⁵Other terms in the Kathfactiths which are significant are: iddraps guiltachia (discussion based on segurant from the marke or properties of the thing): seconsdothans (clearing up the statement, which considers 'the science of the subject in relation to its products (-HLD, 2839), studies kagent/gendens, and upendes/gendens (sumple comparison) and analogical comparison?) Bec KV I i 190 and 137, HLL 337 and 383

"' Arvadeva, who was apparently a younger contemporary, uses . . . the words rasi and varaka, showing therefore a knowledge of Greek astrology which can hardly be supposed to have reached India in this form hefore 200 A. n ''1

This much may perhaps be taken as proved. that logic proper did not exist in India before 200 B.C." and that it had come into existence by 200 A.D. somewhere between these dates the Vaisesika and the Nyāya were systematised; the Vaišesika being the earlier of the two. Ui³ argues that the Vaisesika cannot have been systematised before 300 B.C. or after A.D. :--- not before 18 300 в.с.. because the Kautiliya Arthaśāstra includes only the Sāmkhya, Yoga, and Lokāyata under philosophy' (ānvīksikī)': and not after 18 A.D., because Vaisesika doctrines were imported into Jainism in the sixth schism, of which the date is said to be 18 A.D." The reasons given have been criticised on the ground that the Kautiliva is no authority for so early a period, and that the Jaina chronology and tradition is uncertain. And the mention of the Vaisesika system in the Mahāribhāsasāstra which is traditionally connected

'In this Ui follows Oldenberg and Jacobi. Keith objects that the In this of indow ordenberg and Jacob, Actin cojects that the Resulting a probably a work of several contures atter Charst.—Even so, it clearly embodies much older matter, and thus definitum of orwiterkin is a case in point. Yoga here might mean Vasiento. See p. 3 n. 1, above. The Jamas say that Rohaguits, the chust exhamatic, is in fact the

founder of the Vasfesika system.

^{&#}x27;Keith, BP, p. 229.

[&]quot;The differences of opinion as to the chronology of the P51: Buddhist Canon are such that it is almost useless to base any argument upon it. The date 900 B c is on the assumption that the form of the Kath Spatthu isrepresentative of Asokan culture.

representative of Asokan culture. VVP. 88-98 His argument (pp. 18-38) connecting the origins of the Varieșties with cerlor speculations-they can hardly be called philo-sophiae-is arguesture. Some of these 'lost philosophies' (so to speak) were probably fathered by Brahmanne tradition on the Lokäysts or Căreške school and some of them are possibly to be found in the strange assoriment of doctrines reviewed in the first Shnika of the fourth odhydys of the Nydyssistra. See Gopinatha Kaviraj's introduction to Jha's translation of the Nyāya, 8-12.

with Kaniska's Council in the first century A.D., and in Aśvaghosa's Sütrālamkāra, would be more helpful if the dates of these works were more definite. The same may be said of the mention of the Vaišesika in Milindapañha'. Nevertheless the indications. the 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 systematized 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 Nyāya school, somewhere between the beginning of the Christian ers and the end of the second century after Christ

But there is another strain in the Nyāya besides the Vaiseșika. The elaborate organon of logic and dialectic which it contains ends, as Aristotle's corganon ends, with a book on sophistici elenchi (jäti, and nigrahasthāna). The school had to deal with an ingenious dialectic of sceptism which had its origin in early speculations¹, but achieved its most conspicuous form in the sunyatāda or inhilist doctrine of Buddhism: a doctrine which found its most perfect expression in the Madhyamika Sutra of Nagărjuna, although he need not be thought to have been its first

[&]quot;There is no trace of logical conceptions, as the Nydya understands logic, in the Mulindepender. We may infer from it that at the time when the bulk of this work was written logic did not yout exist in India.

[&]quot;Soe Ui, 7P, pp. 23-38 and his footnote 2 to p. 29. One of the early apconistors, Stafaya Velaythi-points says: "If you ask me whether there is another world-well, if thought there were, therold asy so. But Jon's way so And Jon's think it is thus or thus. And I don't think it is otherwise. And J don't dony it." (itself by Ui, Joc. ark, from SBB world), if, p. 71.

systematiser'. And, besides this, there was the early methodology of debate of the pre-logical period. with its stereotyped formulae of discussion-tenmembered 'nyāyas' and the like-which preceded the pañcāvayavavākua, the five-membered syllogism of the Nuāva. The genuinely logical formulation of demonstration given in the Nyaya supplanted these cumbrous forms: but not without being influenced by them. There were historical, rather than logical, reasons for the fact that the Naiyāyika syllogism had five members: and the Nyāya certainly owes many of its technical terms to the early methodologists. But none the less the logic of the Nuāya is a new creation. With the pañcāvavavavākua India began to araue logically for the first time. The Nyāya can therefore justly claim to be an epoch-making work ; or at least an enoch-marking work

SECTION 2. THE NYÄYABHÄSYA OF VÄTSYÄYANA

The earliest extant commentary on the Nyāya-stitra is the Bhāgya of Vātvāyana, who is sometimes called Pakşilavāmin. As it does not reply to criticisms which we know that Vasubandhu brought against the Nyāya-stūtra, and as it is itself cited and criticised

[&]quot;Reth, BP, p. 200 "We need not, of course, take serously the conception of Negripunas as the creation of the Samyerski philosophy". Therefore references to the Samyerski an the Nylgarditra are not necessarily refertion MM intercontrastic terms of the Samyerski and the Samyerski and the Samyerski and Sa

by Vasubandhu's disciple Dinnaga, 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 Nyāya because it gives alternative explanations which prove that the sense of the sutras had already in some cases become obscure. And it speaks of the sutrakāra as a rsi (NBh 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'. has found general acceptance. It is based on the fact that there are embodied in the Bhāsva certain sūtralike ' sentences ', on which the Bhāsya comments, but yet which do not appear to have for the author of the Bhūsva the status of sūtras, and are in general not classed as sūtras by the later commentators (though in particular cases there is difference of opinion). The view put forward by Windisch is that these 'sentences' are citations made by the Bhāşya from an earlier commentary on the sutras which would imply a considerable interval of time between the sūtras and the Bhāsya. But three considerations may be urged in this connection :

(1) There are in Uddyotakara's Vartika and Prasastapāda's Bhāṣya a large number of passages which convey precisely the same impression as these 'sentences' in the Nyāya-bhāṣya: that is to say, these works also contain statements of sittra-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

E. Windisch über das Nyāyabhāsya, Leipzig, 1888.

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 'Bhaguas' is recognised by Indian tradition—''Süträrtho varnyate yatra padaih sütränusätibhih, scapadani ca varnyante, bhäyam bhäyavido ridu.''

(2) The *Bhāşya* never refers to an older commentator, and does not mark these 'sentences' as quotations with an *iti*. The *iti*,—where '*iti*' is used follows 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 Bhāşya himself draws attention to the relation between one of these 'sentences' and a sütra which follows in the immediate context. The 'sentence' is the first of three embodied in the Bhāşya on NS. II. i. 11, and runs:— URLABDHIMETOR UFLABDHIVIŞANGEN AGENTARSA PÜR-VÄPARASAHABHÄYÄNIYAMÄD YATHÄRTHADARŚANAW VI-BHĀGAVAGANAM. 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 Vātsvāvana savs, the solution (samādhi) of the difficulty put by the objector' (NS. II. i. 8-11). But it is not given at once by the sūtrakāra. who retorts, in sutra 12, that the Bauddha's own proof will be exposed to just this dilemma; in sūtra 13, that if all proofs are invalid, the Bauddha's proof is invalid; and in sūtra 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 !---Then comes suita 15: TRAIKALYAPRATISEDHAS CA SABDAD ATODYASIDDHIVAT TATSIDDHEH-""and there is no denving the three time-relations, since this is established: as the musical instrument is established from its sound". Vātsyāyana explains this rather ambiguous sūtra as giving precisely the same solution of the difficulty as that given in the 'sentence' cited above and embodied in his comment on sūtra 11.-Why then are the 'sentence' and the sūtra given in different places? Vātsvāyana himself raises the difficulty : and the mere fact of his

Vicespeir Mirz stirlbutes the duslectue to the Mächysmike at NVT p. 251 l. 1 and p. 249 l. 8. In the latter passage he gives an exposition of the Mächysmike position, which is cided by Poussain in a note to p. 87 of his edition of the Mächysmike Kärkk Poussain says. "l'atistude des philosophes Bouddhayses est expliquée socs précances "."

[&]quot;The objector us a Médişamide, and he us arguing that the very notion of proof novelwas self-contradiction. He puts forward a distance based on the three possible time-relations between premises (means of apprehension explatibilities) and premergi (apprehended object-applicabilities) perception is supported to caust before the precessi, these perception cannot argue the support and another the second based of the second second second being that which as being perceived if sumulaneously, then we ought not to get ancessive apprehensions of the colour, second, taste, det of the objectings these are supported to co-exist at one and the same time in the objectdice. These should not be a subjective order of presentiations different from the different - preliquide/different from the different preliquide/different approximation of the support of the support of the should not be a subjective order of presentiations different from the different - preliquide/different from the different preliquide/different approximation of the support of the different of the support different - preliquide/different for the different of the differ

doing so has been taken to indicate that in his view the two statements stand on the same level'. He does not however seem to have treated the 'sentence' as a sutra³. On the other hand it seems that he does not offer it merely as a part of the Bhāsva. that is, as part of his own comment. Nor does

Note is vol 11 p 46 of 714's insulator Dr. This says that Wishyrana some is nomply that the 'ensitient's and the define "itsaid on the same israj being the usr's of the some error". But had Vishyrana che ming' hongit of the 'ensited's and hong its event of Gentame is would be in the source of the set of the source in the note. The mass he general question of these 'ensitiese' in the note. The performe consideration of its the 'interaction. It the Introduction (outriviation) Pandit Gopinštha Kaviršia) Windisch's view is accepted (p 13).

What Vätayäyana says is . "Why is this said again? For the purpose of connection with what has been said before that is, in order that the statement made before to the effect that ' there is no fixed rule that processes of apprehension must precede, follow, or be simultaneous with, the appre-hended object', might be understood to arise from the present statement''. measure concev, might be understood to arse from the present statement". The first classes may make the phrase tasket and the phrase tasket and the phrase tasket and the phrase tasket and the properties of the properties of MV p 194 is equally dubiculy "The fact is that the respect and the denial in view the fact that there as no first rule, and so he here rejects the denial in view the fact that there as no first rule, and so here rejects the denial in the maximum statement." of the three time-relations-a denial grounded on the supposition that there is a fixed rule (anyoned of theme grounded on the support of the super-is a fixed rule (anyoned of the logues ray in systems protocollar) religi-ceffs) . . He gives an illustration of one mode (of the three possible time-relations) in the words 'as a musical instrument from the sound'. time-relations) in the words as a massel instrument from the sound Because this so included as an ullistration, the inlustrations of the other two modes are to be applied from what has been said before.—Why was that not statch here.—Because what has been said before is being explanad. The meaning had to be cleared up some way or other,—whether it be cleared up here or there makes no difference."

It is difficult to get at the meaning of this passage V&caspati Misra says." He puts an objection to the reading of this (stirs 16), in the words "why is this said ?. If he has on his own responsibility already stated the force of this stire, there is an end to a stirreptic altogether (ie there is no use in having stiras at all, if we are going to anticipate the stira's mean-ing before the stira is stated). He replies that what was then said was not said by him as something over and above the stirar (atteirard), but was just the meaning of the stitra itself and that his stitrapiths is meant to show that this is the case." The Värliks raises the question-why did he depart from the subra-order and give his comment in the previous passage. That is, why was not that comment given here, under stitra 15? The Bhaeya answers this

See also p. 49, footnote 1.

"Dr. Jhs notes that the 'sentence' appears as a stirrs in the stirra-pothe attached to one of his MSS, and that the commentary Bharys-condra appears to regard it as a stitra. But Vacaspati Misra's Nydyaslicinibandha does not give it as a suitrs, nor does Uddyotakara treat it as such.

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 *stitra* stood on the same level!

It seems to me that what Vātsvāvana savs 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 ' sūtra' 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 Vätsyävana's time there existed any standard sütrapātha and commentary The two things go together · for it would be impossible to construct a sūtrapātha 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 Vätsvävana'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 insissima verba of the rsi. These he would exclude from his sūtrapātha. but include in his Bhāsya : 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 sūtras themselves. Such appear to be some of the 'sentences' embodied in the Bhāsya. And it is in this sense that some of the ' sentences ' and the sutras "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 Vätsyäyana 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 vet Vätsvävana'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 sutras stand for teaching which arose in opposition to the Madhyamika doctrine, and perhaps (though this is far from certain) in opposition to Nāgārjuna himself. If we suppose this teaching to have arisen even as late as 200. A D. there would be nothing to prevent Vätsvävana 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 Dinnaga, 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 FRASASTAPADABHASYA AND THE FRAMANA-SAMUCCAYA OF DINNAGA

There is a period of upwards of three centuries between Vätsyävana and the next Naiyäyika 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 Vaišesika commentators, of the comparatively simple logical conceptions embodied in the Vaisesika Sūtra. 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 Trairūpya 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 Nuõua school, there ceased to be any real reason for retaining the first and fourth members of the five-membered nuñua or method of demonstration · for. as Vätsvavana 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 abstract

characters or universals (ariabhāca—the lair ryāpti), with the order of the terms fixed according to a formula (widh) 'whatever is M is P, and whatever is not P is not M', it still retained the mention of examples (which are in fact an essential element in its formulation of the trairapya or canon of syllogism), and it retained the old name 'examplification' (nidaršana= uādhārāna) for the third member of the syllogism; although thus had in fact become a genuine 'major premise'.

Dinnāga's Pramānasamuccava and Prasastapāda's Bhāsua on the Vausesika 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 Vācaspati Miśra and others are not sufficient in themselves to settle the question of Dunnaga's relation to Vaišesika logic. Jacobi' took the view that Buddhist logic derives from Vaiścsika. Stcherbatsky³ on the other hand argued that Prasastapada borrowed his logic from Dinnaga, and that he made rather disingenuous efforts to conceal his obligations. It is however clear that Dinnaga, in his attack on the Nuāva had a predecessor in Vasubandhu, whose criticisms of Naivāvika 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 Prasastapada had predecessors in commenting on the Vaišesika system ; though of this no definite evidence is forthcoming. The question is further complicated by the fact that a work attributed to Dinnaga by Tibetan tradition under the title Nyäyapravesa. the teaching of which shows a similarity to the logic of Prasastanāda almost amounting to identity, is assigned

⁴Indusche Logik. Göttingen, Nachrichten, phil-hist., pp. 458-489. ³in is Musion, vol v. 1904.

by Chinese tradition to another writer,-Samkara Svämin, said to be a disciple of Dinnäga.

There is very close similarity between the logic of Prafastapäda and that of Diināga. Diināga'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 Diināga and Prafastapāda are almost contemporaneous', and that Väteyäyana preceded" both. That Dināga' is later than Väteyäyana is definitely proved—if any proof were needed —by the fact that the former writer ridcules the appeal to the methodological principle (*tantragulti*) of tacit acceptance (*anumata*) as employed by Väteyäyana in his commentary on NS I. i. 4. That Prafastapāda is later than Väteyäyana becomes almost certain from a comparison of their logical doctrines', 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 Dinnāga, it is difficult to point to a passage in which he refers to the logic of Praśastapāda.

¹ Suali, Introdusione allo studio della filosophia Indiana (Pavia, 1913), p. 424. Cited by Faddegon, Vaišeșika Philosophy (Amsterdam 1918) p. 16.

¹⁰ Small, p. 31. otsek by Padlagon, p. 605 Bodas argued that Predatspäds was earlier than Vistavyana, on the ground that the lister oftee 176 J. 4. and that thus sötze us ister than Predatspäds But this is archtery. Padlagon's searmption that 93 H. 10. 20, which Predatspäds ottes, was interplated from Nyley-blage p. 94.10. secondly which you are cortain that Vistavyana was earlier than Predatspäds.

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"e.g. Prafastapāda's exposition of the notion of sāmānyato drata inference seems clearly to belong to a later phase of logical thought than Všavyšpanā"s. The same is true of his formulation of syllogian. It is easy to understand that he would tend to avoid reference in this connection : for nearly all the criticisms which he directs against Dinnaga would be applicable to Prasastapada : and therefore he could not refer to the latter, in connection with logical topics, without attacking the sister-sästra. But no one occasion', at any rate, where it was possible to show that Prasastapada was right and the Buddhist logic wrong, he makes an undoubted reference.

His references to Prasastapada's physical and metaphysical doctrines are detailed and indubitable³. Indeed there are passages which must be read as commenting rather on Prasastapada than on the Nuaua'.

NV pp. 819-890 and PBh pp 11, 311 (samanus)

NV p 820 and PBk pp. 14, 824 (samazdua).

NV p. 468 PBh p 48 (systs)

NV p. 417 and PBh pp 108-107 (rupādīnām pākajotpattik)

"For instance, NV pp 318-322 on NS II in 61 is a defence of Praéastapäda's doctrine of sāmānya As examples of detailed correspondence compare -

NV p. 319 1. 3 spanigage sarvatra variata iti sarvagatety ucyate.

PBh p. 811 J. 13 spansayasarvagatam

NV p. 319 1 5 kva punar gotvam vartate? yatra gotvanimitto 'nuvrttapratyayo vartate

PBh p. 811 | 16 anusyttipratyayakāranam.

PBA p. 310 1. 16 yathā pastrācarmākaribalēgu nilapratyayab. PBA. p. 311 20 yathā paraparasvistējegu carmavastrākambalādigu ekasmān niladravyābhuambandhān nilam nilam sts pratvayānuprttih etc.

[&]quot;A passage in which Uddvotakara seems to contrast Prasastapada's 'A parage in which Uddynakara seema to contrast Prakatapaka's teammant of the tops of protrictly block with the band its intendition of the proper example of Proposition contradicted by Perception, whereas 'fire a not bad' a s proper example and again that a statement, on the part of a dotting Authority: whereas the statement's of the handl dirak spurit's a proper example. Now the two examples which he ways are very and dotting Authority: whereas the statement's Dahman should dirak spurit a proper example. Now the two examples which he ways are very are years. those given in the Nyäyapravesa (see Vidyabhäyana, HIL p 290-291), and the two examples which he says are right, are those given by Praéastapäda PBh p. 284). NV p 117, on NS I 1 88

That later commentators attributed high antiquity to Praśastapāda¹ is shown by the fact that Vācaspati Miśra cites his words (*PBh* p. 308 l. 5) as páramarsavacana (*NVT* p. 458 l. 8)⁵. *Praśastapādabhāşya* was known to Dharmapāla (599—570 A.D.), and Paramārtha (499—569 A.D.)³. And there are said to be even earlier references to Praśastapāda in Buddhist writers, notably in Vasubandhu.

Stcherbataky has recently' admitted that the views which he put forward fifteen years ago-views which were strongly grounded in the evidence then available—must be revised in the light of further knowledge. He now makes three points :

 idealistic tendencies showed themselves again and again in various contexts in the course of Buddhist philosophy;

(2) the sūtras of the Nyāya which seem to refer to the idealism of the vijñānavāda can be differently interpreted:

(3) we have positive proof of the existence of a systematic Nyāya and Vaišeşika long before Vasubandhu's time.

NV	P	322	1	9	kaiham tarhı gotvam goşu vartate äsrayösrayıbhä rena, kah yunar ösrayösrayıbhärah? samaväyah.
PBh	P	824,	1	19	tatra vritimad sotzam,—vritiķ iamavsys ilija- pratžgyghėtutved ity uktam. syutasiddhänäm ädhäryddhärabhütönöm yah sam- bandha ihapratygyahetub, sa samavöyab.

(VS VII 2) 26 shedam sti yatah käryakäranayob, sa samazduah. Uddyotakars's phraseology however seems to echo Frafastapäda rather than the säira --For a later objection see Kumärila Si Värt., anumäna, 100, cited below p. 205).

below p 905). Vindhyeévan Praskda Dvivedin (Dube) in his preface to the Viz Sk. Series edin of PBA adduces other evidence to this effect

I owe this reference to the list of identified quotations given by Gangadhara Sāstrī Tailanga in his edition of the NVT. He gives one other citation from PBh., viz, NVT p. 81 l. 27=PBh p 250 l. 15 (definition of subto).

*U1, VP, pp. 74-79 and p. 18.

"Erkenningtheorie und Logik nach der Lehre der enäteren Buddinsten: überweizt von Otto Strauss München-Neubiberg, 1924. pp 209-266.

He still holds that Vātsvāvana in the introduction to Nyāya-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 sutra : but he now believes the reference to be to an older " The idealism, and not to that of Vasubandhu. Vijñānavāda is as old as the Sūnyavāda, 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 Viinanavada being understood to refer to the foundation of it on a logical basis by Vasubandhu.

In connection with his third point—"that the Nyáya-Vaissika system is considerably older than the later (epistemological) *vijfānavāda*", Stcherbatsky states that Vasubandhu himself deals with Vaissika views on the existence of the soul, and that he cites the definition of saniyoga, not in the words of the Vaissika sätra (III.ii.22), but in the phraseology of Prassatspäda (PBh. p. 183 1.18 aprāptayoh praptih saniyogah). He is not prepared to suggest that both Prašsatspäda and Vasubandhu derive from an older source. He further cites Ui's statement (Vaišesika Philo-

Even if bhdedn were the correct reading this appears to be, inguistically, a very improbable interpretation of ohd-dn budshir divings. I do not believe that there is any reference to an idealist here,—in spite of Väcaspati Mitra.

¹³DB p. 323 i. G-Yad dem bleen buddhr dretge buddhretsey sentis mangels, mithaj buddhape ethin - is a for your (ihn Naughuka) relances on thought, and your (consequent) statement that the objects of thought exist, which is answer is that these thoughts are illusory. "S Boherbaids' however mureads blacks for bleeds in the first classe, and transities Hows after de da flocks data so Objects and shown owniking byte war Porner Imag (buddhi) est, on (ust dur snigagemahallen das) Image (buddhi) est, on (ust dur snigagemahallen das) Image (buddhi) est, on (ust dur snigagemahallen das)

sophy, p. 73) that Vasubandhu in the Buddhagotrastatra refutes a Vasissika doctrine of sound as comprising three moments, a doctrine which is not found in the Vasissikastira but only in the Bhätya. "Prassatpadia is evidentily its originator".¹

From these facts he draws the conclusion that Praśastapāda was ether a predecessor or a contemporary of Vasubandlu. The problem of the relation between Vaiseșika and Buddhist logic, therefore, has now assumed ior him an entirely different form. It is no longer a question whether Prakastapāda borrowed his logic from Dināga, or vice versa. The suggestion now made is that Vasubandhu made use of Prašastapāda's logic, and that therefore Dināga's logic is derived through Vasubandhu from Prašastapāda. This however assumes that there was no development in the Vaišeșika school between the Satra and Prašastapāda,—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, basing his argument on the biography of Vasubandhu by Paramärtha, came to the conclusion that he lived 420-560 A.D. This was generally accepted until Noel Péri^a advanced strong reasons for carrying the date back a century and a half earlier. Vincent Smith^a and Keith^a accept Péri^a

^{&#}x27;Stohorbstsky, German Transl., p. 365 The reference is to PBh p 387. Having now come to regard Prasastapida as an original thinker, he incluses to the view that his logic also is not a borrowed thing

³On the Date of Vasubandhu, JRAOS 1905; and Bulletin de l'École-Française de l'Exirême-Orient, 1904, p 37.

^{*}Builetin de l'École Française de l'Estrême-Orient, 1911, pp. 339 ff. *Esrly Hustory of India, 3rd edn., pp. 328-384.

^{*}Buddhut Philosophy, pp. 155-6-

conclusions; but Stoherbatsky' 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 *Hinayānist* 'Vrddhācārya Vasubandhu' who is often cited in Vasubandhu's *Abhidharamakoša*. A later Vasubandhu,—commonly called 'the Bodhisattea Vasu'-, was a Mahāyānist anthor of a commentary on Aryadeva's Satašāstra: 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 pont.

SECTION 4. UDDYOTAKARA AND DHARMAKIRTI.

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

The Vasubandhu with whom we are concerned is the logician referred to by Uddyotakara, and the author of the *Tarkafattra* assigned to 'Vasubandha'. He was traditionally the teacher of Dininga

¹Buddiwit Eputemology and Logic, German transition, note 430, 989. See also Gerited Conception of Buddiwar, 1928. 9, 8, note 6, where Stahebatisty writes, ''That there were two Yasubachisa is not 'a standard and the state of the state Yasubachi, brother of Asarga, but that the suggestion is on the whole or the weak to mean that the suffer of the Abidsmackie's would be sufficient writence to asarga the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the Stake of the state state of the state

of him by name in his Vāsaradattā¹. Subandhu in turn is complimentarily referred to by Bana, who writes as a youthful poet in the later years of Harsa (604-648) at Thänesar, and is apparently' 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 Uddvotakara in the Vārtika (p. 113); ' this road leads to Srughna '. For, as Vidyabhūsana points out, Srughna was only forty miles distant from Thanesar, and must from its position have been an important stage for travellers to or from Thanesar'. It is not improbable therefore that Uddvotakara lived at Thanesar in the reign of Harsa.

Uddvotakara 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 Dinnaga and others". It has been held" that the Bauddha logician Dharmakirti was a contemporary of Uddyotakara and is referred to in the Nuāuavārtika as the author of a Vadaridhi and a Vadaridhanatika which Uddvotakara mentions by name'. But

¹⁷ Pitzedward ILuli wain p. 265 Sees note 3. "Gregescaring uncertaints I cited by Yolykholtsaya, H I L p. 183)— kowisiam ogolad darpo ninamy Fluoredativeya. "Nysyatrikin ucodylocidescarsardafam "Vidykholtsayas asys "I t was vary probably this route by which Hume-lineagy reached Bragman as 0560"." discussioned in the second second and 0560"." discussioned in the second second and the second sec

⁷NV p. 121 1. 9, p. 120 1. 6-7. See also p. 156 1. 17 with JhE's emendston · and p. 159 1. 8, where the "granthakars " and " bhāyakārs "

[&]quot;See the introductory stanza to NV, and NVT's comment thereon "Vidyäbhfişana, H I.L. p. 124 . Keith, I. L. A., p. 28. JRAS 1914 pp. 601-606 and 1102-8.

there are reasons for identifying the Vādavidhi with a work which Chinese tradition asserts to have been composed by Vasubandhu and of which Hiven-tsang-a contemporary of Uddvotakara-says that he saw a copy during his travels in India. No other reference by Uddvotakara to Dharmakīrti and his works has been adduced : and there are positive indications that, although Vācaspati Miśra frequently extends the application of Uddvotakara's arguments against Dinnaga so as to make them bear upon Dharmakīrti's statements. Uddvotakara himself was either unaware of or else ignored Dharmakirti's views. Vācaspati Miśra is careful to point out that Uddvotakara's criticism of Dinnaga's definition of perception would not be applicable to Dharmakirti's revised statement, though it is applicable to Dinnaga's'. If Uddvotakara 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 Uddvotakara². He is not mentioned by Huuentsang (629-645 A.D.), but is spoken of by I-tsing (671-695 A.D.) as having introduced reforms in logical theory. Vidyābhūşana finds a reference to the Nuāyapārtika in his Nuāyabindu, but this is doubtful?

may refer to the author of the vädavidks and the author of the vädavidhänatika See Fragments from Dinnäga, pp 28-28

press new programments from Distinging, pp. 288-28. p. 8, NYP p. 1001 117. "TO: commonless, PP Day 2713." Thruston any that when Distances that was converted to Baddhuam he was admitted into the prioritodo by Distance and the these architectures and f Uid admitted into the prioritodo by Distance Distances and the second second by Distance and the Distance of the prioritodo by Distance and the second by Distance Distances and the second by Distance and the Distance of the prioritodo by Distance and the second by Distance Distances and the second by Distance and the Distance of the Distance and Distance and Distance and the Distance of the Distance and Distance and Distance and the Distance of the Distance and Distance and Distance and the Distance of the Distance and Dista

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Dharmakīrti's Nuāvabındu is a brief work, and, although its recognised importance is shown by the commentaries written upon it,' 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 Uddvotakara and Väcaspati Miśra. Uddvotakara's Nyāvavārtika 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' 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 nyāvasthiti. or establishment of the ancient tradition of the Naiyāyika school as against the innovating logic of

¹⁷De Nyöyabınduşikä by Dharmottara, edited in the Bubl. Ind. edn., of the Nyöyabında, P Federson also a typpent edited in the Bubl Boddh., R. Petersburg, 1909. Federson, who diacovered and published the Nyöya brada m. 1889, did not know that Dharmahirit was its author. This was established by Fukaka m. JRAB 1964, vol. 2011, p. 86 ff and p. 21.8 f Cf Jacob m. J.R.AOS 1905 pp. 361.3 Vidyābhāşaşa identifies its Thetan ver sum, H. I. L. 9, 309.

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 celectic logicians, and the pure *Naiyāyika* tradition may perhaps be said oc and with Uddyotakara.

SECTION 5 KUMABILA AND VACASPATI MISRA

There is no logic in the Mimāmsā-sūtra; but a theory of knowledge and the beginnings of logic proper are to be found in the tarkapada of Sabara's Bhāsua thereon: that is in his comment on Mīmāmsāsūtra 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 'prttikāra.' This passage polemises against a doctrine which is not the developed idealism of the viinanavada. It seems to be much the same as that attacked in the Vedantasūtra and the Nyāva-sūtra, though perhaps the idealistic moment in the argument is more prominent than it is in the theory attacked by the Nuāva-sūtra. Keith concludes that the Vrttskāra² is probably not later than the fourth century A.D.1. The language used sometimes suggests acquaintance with the Nyāvasutra; and the logical conceptions are certainly considerably earlier than those of Prasastapada. and possibly rather earlier than those of Vätsvävana. Sabara does not seem to be separated from the Vrttikāra by any considerable interval ; and a date in the neighbourhood of 300 A.D. may be provisionally assigned to both writers

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¹Karma Mimithed, p 7. The passage in Sabara is dealt with sufra in the chapter on Perception

The beginnings of logical theory here laid down developed into two Mimāmsaka schools .: the Prābhākara, based on the Brhati commentary on Sabarabhāsya by Prabhākara, to whom a date about 600-650 A.D. has been assigned': and the Bhatta school, which derives its name and doctrine from Kumārila Bhatta, whose Slokavārtika or verse-commentary on the tarkapāda of Sabara's Bhāsya is one of the most famous and the most frequently cited of Indian philosophical works, Kumārila cites and criticises Bhartrhari.² the philosophical grammarian and author of the Vākyapadīya, 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 humself cuted and critised by Samkarācarva': 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

Theth. Karma Mindaka pp 0.30, and note 3 to p 9 0.444. School of Phene Mindaka pp 0.30, and note 3 to p 9 0.444. School of Phene Mindaka, Indian Throught, vol III, 1000 (Allahabad), which shall ireans. In believe) the able scores of knowledge of that school. The *Briefst iself follows on a Parkke* (not that of Kumskils) which Dr Jiz wards a schee in the School of the School of the School of the provise schee into Kumskils and repeat by Indiano which make the former a pupil of the latter. *PSPM* pp 10-17 But the question has been respond by X 5 Bikmaswing Nestry School of Kumskils. and the Brhattikā, and on Forgotten Kārikās of Kumārila, read before the Third Oriental Conference (Madras, 1924) and the Fourth Oriental Conference (Allahabad, 1926)

Further examination of the Brhaff on Adhydya I pada 1 would cortainly throw fresh light on the development of logical conceptions A MS of the Brhati is in possession of the Bengal Boyal Asiatic Society. It is not clear from Dr Jhä's account how much of the doctrine is to be found in the Behalt iteeli, and how much in the commentators on it. 'See Päthak's Kumärila and Bhortphari, in JBRAS vol xvni, 1899.

p 213 ff. The reference is Kumārila's Tantrazārtika I. 1. 8

"Pithak noise the distant by Binsternen in its Tuiltriparticle (nandisarma doi, b. 6) of a couple from fiberitar, the associant salled readbandskiepaperikare, verse 110 (Gaubh edn. p. 671). Sureivara an commenting on a passage in Salhara's Tattriprivabarya what has sparse to parsphrase the couplet from Kunkris. Pithak says that Sankara sho refers to Kunkris in the forstababayer, Anandisame edn. p. 837.

Kumārila, and this may be accepted as the nearest approximation at present possible. His logic owes much of its detail to Prasastapada and to Dinnaga. 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 (sāmānya) in inference, and his quantitative formulation of the relation of the major and middle terms in the syllogism as vyāpya (gamaka) and vuāpaka (gamua). In these respects he only carries further doctrines already contained in Prasastapada. and he probably had much to do with the introduction into later Naiyāyika logic of elements in Prasastapāda's logical doctrine which Uddvotakara rejected. His logical doctrine is very much that of the 'classical' Nuāva : and the frequency with which his Slokavārtika is cited by Vācaspati Miśra and Srīdhara¹ is an indication of the influence which that work had on later writers on Nuava.

Vācaspati Miśra gives us his own date in the closing verses to his Nyāyasūcīmbandha,...his 'edition' of the Nyāya sūtra, arranged into prakaraņas or topics:

nyāyasūcīnibandho 'sāv akāri sudhiyām mude srīvācaspatimisreņa vasvankavasuvatsare.

Vasvankavasu 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 Nydyavärtikatätparyapariśuddhi-a commentary on Väcespati's Nydyavärtikatätparyatika-, again gives us his own date as 984

^{&#}x27;Gaigādhars Sāstrī notes seven quotations from the Slokovārtika and two from the Tantresērtika in his edition of the NVT Faddegon (Vai. System, p 601) identifies in Sridhars's Nyšyskendalī twelve quotations from the Slokavārtika and three from the Tantrevärtika.

A.D.¹, and an interval must be supposed between the two commentaries. For this and other reasons³ the year 898 must refer to the Vikrama era, and must be understood as equivalent to 841 A.D.,-Vācaspati Miśra was a doctor of many philosophies. He gives us a list of his own works in the closing verses to his Bhāmatī or commentary on Samkara's Sārīrakabhāsya. The list there given is (1) Nyāyakanikā (2) Tattvasamīksā (3) Tattvabindu (4) a commentary on Nuāva (5) a commentary on Sāmkhua (6) a commentary on Yoga (7) a commentary on Vedanta. The four latter commentaries-nibandha-are no doubt the Nyāyavārtikātātparvatīkā: the Sāmkhvatattvakaumudī: the Tattvavaiśāradī, on the Yoga; and the Bhāmatī itself. The last mentioned is of course the latest-written of these seven works. The Nuāvakanīkā, a gloss on Mandana Miśra's Vidhiviveka (on the Mimāmsā), is mentioned in the Nuāvavārtikātātparvatīkā², as is also the Tativasamīksā4.

The Nyāvavārtikatātvarvatīkā itself is mentioned in the Sāmkhuattvakaumudī⁵ 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)

*Ketth, ILA, pp 29-30 Woods, YS, pp xI-xx11, *españcitam caitad asmābhir Nyāyakanikāyām NVT p 395 1. 16

"diminificam airs daršitam, prapaitos Tattosamiksāyām asmāblik kriah NVT p 87 l. 28. The doctrine here referred to as expounded at length in the Tattosasmiksā is the theory of urror in its five possible forms. This passage of the NVT is translated here, infra, chapter I section 5.

Stated by Gangadhara Sastr, in the brief but very valuable preface already referred to.

^{&#}x27;At the end of the Laksandvall -

tarkāmbarānkapramitesp atītesu fakāntatuh parsesūdavanai cakre subodhām Laksanāvalīm

This is cited by Gangadhara Sastri in his preface to NVT, together This is clear by designifiants. Statri in his preface to NTT, together with the couplet from the Nglaydischinkowida He argues conventingly that Udaysan's preliminary invocation proves that Vikasapati was much earlier than Udaysan, and concludes that Vikasapati S60 music refer to the Vikasapati ers, and so be read as 641 a. He does not mention the their their their their dynastrike memory of the Vikasapati in the S60 michylasification that the synthesis of the Vikasapati in the S60 michylasification weak, we written by Bhogs Rays 1018-1050)—groupment, it as worthless I in mais contanity be disregarded in these of has argument.

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 Sāmkhya: so that the list of his works which he gives follows the order in which they were written. He does not mention the Nuāvasūcīnibandha, probably because that was a mere appendix to his commentary on the $Ny \bar{a} y a$: 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 Bhāsua, 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 Tattvasamīksā would seem to have been a Vedantist work in which the nature of truth was dealt with, while the Tattvabindu treated of Kumārıla's teachings.

Six of these seven works are not only extant but available in modern editions'-a rare fate for an Indian philosopher. Vācaspati 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

¹⁷De Nyšigakogukā with the Vidherecko was mened as a reprint from The Fonder, Remare, 1007. (The Fonder, XXV-XXVIII, 1903-1900). Tatisasimitā, as lar is i Innov, ias and heaving bubbada WYT in Viz Sitk, Sense, 1988 The Sönkkipataitsakammudi, Benaren, 1989. The Tatisa-essidiradi, Bombay Etti Sense 1969 The Bhāmati, Bhib Ind., 1980. The Nyäpastiras, as included the Bog The Bhāmati, Bhib Ind., 1980. The Nyäpastiras, as included the Bog The Bhāmati, Bhib Ind., 1980. The Nyäpastiras, as included the Single and Woods (XZ, p. xxu) a) is our Vkearpain Misra. Buit Väykbidaşaq (ZIL, p. 460) sittinicis it io he much lässe writer of that mane who laved shout 1460 a. D. This would

dispose of the conclusion drawn from the colombon of this work that our VEcaspati Misra was a native of Mithil[#]

whom we know little beyond what Vācaspati tells us'. Udayana appears to generalise this into the statement that Vācaspati used the teaching of Trilocana to rejuvenate the *Naiyāyika* 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 Praśastapāda, as well as to the *Bauddha* and *Mimāinsaka* logicians whom the new school contuned to combat. But it was not 'modern'.

It would be difficult to point to any doctrine in the Tatparyatika 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.

^{&#}x27;See the note on Trilocaus, infra (fooinoie 1 p 106)

CHAPTER I

TRUTH

Value of truth-Valitity-metalaprimanya and partelaprimangapa-Negative padgemei-Condutions of possibility of error-five theores of error (translation of NVT, pp 54-57) -(i) Error as apprehension of the marely subjective dimalahydit. (ii) Error as apprehension of the non-existent, anstrhäpit (iii) Error as apprehension of whet mether are is not, anstreaonityakhydit. (iv) Error as non-apprehension akkydés. (v) Error as the apprehension of things otherwise than as they are arguethkilydis.

THE problems raised in this and the following chapter are epistemological What is our guarance 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 object 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 magination for the thimg-in-itself?

These are still the problems of modern epistemology, and the spirit and method in which the Indian philosopher 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 abused, no use can be made of it And it is perhaps in these problems of epistemology that the use of the comparative method is most enlightening. I therefore make a few observations here on some of these problems as they present themselves to modern thought, by way of introduction to the Indian discussions of them.

The so-called ' problem of knowledge ' of modern enistemology 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 Berkelsian 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 fairly be said that error is impossible for the realist, and truth for the idealist". As soon as the realist admits, even in a single case, the presentation of a false object to the mind, he is 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 reality in any case? Thus the modern realist finds himself forced back upon the paradox of the akhyāti-vāda, the Mimāmsaka 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 yathārthāh. He will also hold the Mimāmsaka view of validity. that cognitions are self-evidently true (svatah-pra-mānya) Similarly, the Mimāmsaka is at one with

^{&#}x27;G E Moore in MIND n s., vol x111, 1904 Reprinted in his Philosophical Studies, London, 1922

[&]quot;The terms objectivist and subjectivist would be preferable, if we could depart from the accepted opposition of realist and idealist. At any rate I mean by 'idealist' subjectivist.

[&]quot;There will of course be no distinction between truth and error for the idealust, so that error also is impossible for him

the modern realist in denving that thoughts are ' presentations' (anākāram inānam)'-there are no 'ideas' in Locke's sense. But it is no easy matter to explain as mere failure to apprehend³. And the error Naiyāyika (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 (anyathākhyāti-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' (ātmakhyāti-vāda); and this seems to debar us from admitting the self-evidential nature of even true cognitions (spatah-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 Naivāvika 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 dis-cussed by Vācaspati, he puts the realistic ' refutation of idealism ' in a way which any 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 "!

¹P. 96 infra

[&]quot;As Alexander candidly admits Space, Time and Derty, vol it, p. 199, "I cannot help admitting how much simpler it would be and how much labornous explanation it would save if only it were true that eeu muthicus and eensations were mental as is commonly supposed ".

P. 59 mfra-sväkärem bähyatayä 'lambants vibhremäh.

Value of Truth

SECTION 1. VALUE OF TRUTH

The Nyāya-stāra gives no definition of truth. In the three opening satras' it says that the attainment of the Summun Bonum results from knowledge of the real nature or truth (tattra) of the sixteen topics. (padartha)' of the system : that release (apaaraga) from the cycle of birth and rebirth results from the absence, following upon such knowledge of truth, of the series error—defect_activity—birth—pain', there being a successive disappearance of these when truth is known: and that perception, inference.

¹Known collectively as the truthrise colophon at p. 11 of NBh But according to Vacaspati Mira's duration of the distra m his Nyäyasikrise bandhe, the first two sitras form one prakarepa or section, while the thurd belongs to the second prakarepa (consisting of sitras 3-8 and dealing with the tomo of the definition of the pramarka)

⁴Enumerated in this stars as —instruments of knowledge; objects of knowledge, doubt, motive, example, established tenet, members of the syllogum, indirect reasoning (reduction as impossible), certitude; discussion; disputsion, cerasions of rebuke : o d defast in argument.

These are m no sense 'categorse', but rather a lust of the contents of the *Bistra*. The Naraghika of course does not supprese that a howwidge of the logarsh notions, which form fifteen out of these arteen 'categorse', constitutes the sould's saivation but he is courtined that ball folge will many damation. The knowledge that constitutes the single of the saivation as howidge of certain source of the sain the size of the saivation as the size of the saivation as a saivation that the saivation as howidge of certain says at standard heat of these arterias on the saivation as a saivation and the saivation as the saivation as a saivation as a saivation and the saivation as the saivation and the saivation as the saivation and the saivation and the saivation as the saivation and the saivation as the two saivation and the saivatis and the saivation ano

Vätzyäyana is aware that the sixteen topics involve a cross-division e g, the second 'category' includes all the rest. This is no objection in a list of contents

Those constitute semestra, the cycle of existence. NBb p. 6 l. 1^a ta une muthydynanddayo duhkhanid dharma asuchedensics pravarismanals samedra it. Only right knowledge can make a broak (succheds) in the viscous circle of being.

'analogy	" and	testin	nony,	are	the	means	of	knowi	ing
truth	(pramā	ņa) ^s .	The	int	rodu	ctory	por	tion	of

"This is not a rendering, but a symbol, for upamans, the meaning of which is interpreted below, p. 319 ff.

"For the varying enumeration of the instruments of knowledge in the different schools, see below p. 305 and footnote

' Testimony ' is fundamental in the Nudua, as in all the orthodox philosophies (It is true that the Fasterika school nominally rejected testimony as a separate instrument 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 testified, but only an inference from the credibility of the witness, there is no practical difference between the attitude of the Vaiseriks and that of the other schools to scriptural and canonical authority). Vätsyäyana explicitly says that the 'investigation', sneikyö, m virtue of which the sastra claims to be anviksiki vidud, is inference supported by perception and testimony The 'nyäva', or method of demonstration from which the system takes its name, is certainly not pure reasoning "What is this nyāya? It is the investigation of a thing by the instruments of know ledge-promanaur arthapariksanam nyäyah" (And testimony is one of the promised in the second provide the provided and the provided in the provided in the provided in the provided in the properties of a sequere of the demonstration, in the Proposition or protyrik, the prelimin arr statement of the conclusion. The mere statement of the production is a set of the production of the product fact part of the ground for accepting it, in a genuine nydys for, as Vätsyä yana elsewhere says, $\bar{a}gamah$ pratyfiz—the Proposition is authoritative testimony. The other members merely follow up and explicate this authority-generated knowledge And so the present passage goes on -) "Inference relying on perception and testimony is anviked, investigation that is, the anvikance of star-spyrelension of something that has already been 'kiesta', apprehended, by perception and testimony The Nydyadstra functions through this sort of 'anvika' or nurseitgation, and so constitutes 'dreikspik ridud', the science or art of investigation (But) inference which contradicts perception or testamony is fallacious demonstration (nydydbhdsa)". However impeccable an inference may appear, judged by the canons of unorthodox logic (e.g., by the trairfoug of the Buddhist logic), it is still bädhsta, null and youd, if it contradict authoritative testimony (NBh p 3 41 14-17)

Uddytakars as even more explicit, if possible, than Vikuyiyana. "The baselestication for fartra is exposition of this truth about a time which object with sense, they (asprchend truth) through perception when they rayly on experience of a middle term and on memory of connectum between the middle send he mayori they apprehend in thy informace "but when they rayly on goal and the term of the sense of the s

It mught seem that Indian philosophy of the orthodox schools, starting then from foregoine conclusions, must be a system of dogantame of dogantame of lattle miterest to these who do not accept the scriptural or exancing a subbrirty on which orthodox schools had the advantage of fasing. In Buddham, a system or production which presend free enquiry to the extreme limits of scripturam. These opponents outside the fold had to be mat with their own weapong, which were perception and inference. The fortunate result was that the transmels of perception and inference. The fortunate result was that the transmels of work leades.

Vātsvāvana's comment on the first sūtra embodies, however, three sūtra-like 'sentences' (vākvāni)1 which seem to raise the problems of the criterion of truth and of the nature of the object of knowledge in a specific form. In the commentators' observations on these ' sentences ', and on the second sūtra, 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 arises. Thus Vācaspati Miśra (on NS I. i. 2) enumerates five theories of error, and refutes four of them²

SECTION 2 VALIDITY, SVATAHPRÄMÄNYA AND PARATAHPRAMANYA

The first of the three vākuas is as follows .---

1. pramānato 'rthapratipattau pravrttisāmarthyād arthavad pramanam.

"Knowledge gets at the object : because the capacity of practical activity to achieve its object is condi-

[&]quot;The commentators are unsummous that these are not efferts through the scale of th 'The commentators are unanimous that these are not sfitras sästapäda (which is not a bhäşya in the ordinary sense) and from the Värtska secondary which is not a charge in the ordinary sense; and not have yersals of Uddyotakars, in which the write first grees an sphoratic statement and then proceeds to explain it. It scouns to me that this may have been a männerism of the earlier philosophical writers But see above, p. 23. "See below, p 50

tioned by the grasping of the object through the instruments of knowledge." The purport of this edkya plainly is to argue that knowledge (or the instruments of knowledge) 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 Naiyajuka doctrine of paratal prämänyam, i.e. the doctrine that the validity of knowledge is known 'frm something else' than from the knowledge itself. How do I know that I know? Because my knowledge works in practice'. The opposed doctrine of status taught by the Minänska school.—the doctrine of

¹⁶Rincily speaking, yrand is knowledge, and the instrumental nonprendpa signification to involvedge-permission concern, or, pramakaropan prendpam Samilarly ensumas, as the instrument of inference (summigrate aneral), is opposed to ensumit, instrumence as a resultant and epamina (spannigate aneral is upermit. But these distinctions, though drawn by Väsiyäyana humeli were not always rigidly observed by hum.

"That is, the validity of knowledge is known by a subsequent inference Terkebide 19 401. I forman it metameorprises/encourse optimite, primetyme passer saumäensa-the cognition, as such, as apprehended by inference. The question as to how the realisity of cognitions is grapped in guite distinct from the question how we are waves of our cognitions. Ministriask dances inner-receips perception of cognitions, which is the Naugiyuk wave stated in the first half of the sentence here cold from the Tarkebided I's and the other question, that of the way in which we appendend the elistic state wave and the outcome of the sentence here cold from the Tarkebided I's at other question, that of the way in which we appendend the celidity of cognitions, that we are now concerned with

The Simikipus held that both valuity and invalidity of cognitions are apprehended from the cognition itsel(sraid) the NargiAyaka held that both are apprehended from something other than the cognition (spratch) the Mindivasias bed that the valuity of a cognition is apprehended from itse cognition itself, while its unvalidity is apprehended from isseming of some islets; day, which misialises the cognition Truth needs no criterion but error dow). Hese BJS, chapter on the Jamming-darfean, p. 318-p. 106 an Occell School La Letters on Miphic (pp. 36-36-30) Microsoft and the sopies in the School La Letters on Miphic (pp. 36-36-30) of the passage in the Siloceristic which deals with that ions, viz. constanders results [1, s illuminimic (The tragilation was not contuned, and remains a more fragment. But the whole of the Siloceristic has been remained by Gardigathan TAB. Shlochekes Inter, School 1906. svatah prāmānyam or self-evidence : that the validity of knowledge 18 known ' from itself '.

The motive which led the Mimāmsaka school to adopt the doctrine of the self-evidential nature of cognition is plain from Sabara's commentary on Mimamsa Satra 1. i. 2. It was a device for throwing the onus probandi on those who doubted the validity of sornptural 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 is not set aside at any 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 ! ergo, the injunction leads to a cognition which is valid : since every cognition is valid unless and until it is disproved-and this can never be disproved. Kumārila (or a predecessor) developed this naïve position into a generalused 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 tho cause to which it is due "1. The principal objection urged by Kumārila against 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 " .--- so

⁴Thibaut's translation of verse 34. The some' referred to are the Sämkhyas, the 'others' are the Navyäyskas, see preceding note.

that in the end the theory of intrinsic validity-andinvalidity has to be abandoned. He then turns to another view',--- " Let, therefore, non-authoritativeness be considered as the natural character of cognitions. while their authoritativeness depends on something else." The supporter of this view 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 Mīmāmsaka does. The truth rather is that it is the addition of certain virtues or qualities' (quna)-extrinsic to cognition-which makes the cognitive process (in itself inherently inbilay (hilay 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 Mīmāmsaka then is that Vedic injunctions cannot be considered authoritative, for if they are not due to men² (possessing such good qualities as trustworthiness and so on), they cannot claim any authority; and, assuming they were due to men it

¹Thibaut's translation of verse 38 This is the *Bauddha* view, as appears from the couplets cited in *SDS* and referred to m 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 —

pramānatvēpramāņatve svalah sāmkhyāh samāšritāh, naugāyikās te paratah, saugatāš caramam svatah, prathamam paratah prāhuh prēmānyam. vedavēdsinah, pramāyatvam svalah prāhuh, parataš cāpramānatām.

"The Sämkhyas hold that both validity and invalidity are intrinsic the Nasyāgikas that both these are extrinsic the Baudákas say that the latter is intrinsic, while the former-validity-is extrinsic the followers of the Veda (ie the Minafrieakes) say that validity is intrinsic and invalidity extrinsic."

"The Mimänkaka vnew is that the Veds has no author, human or divine, but exists from eternity. It is this doctrate that provides the motive for the characterista Mimänkaka isence of the eternity of sound (#dda), which was a principal battleground of the early schoole. Mimänkaka tenets are often theological dogmas generalsed into philosophical theories

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would be impossible to show that those men possessed the required perfections (capacitating them to lay down the law on supersensuous matters). Vedic injunctions 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". 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 ''

"Thibaut's translation of verse 48.—tataś ca purusābhāvāt, sati ve śuddhyasambhavāt, nurmūlatvāt pramönatvam codanāyām na yujyate

'na hi svato ' satī šaktih kartum anyena šakyate. Verse 47.

"Thisbard's transition of versus 40-51. Both arguments earny weight, thought they do not proving int what Kumufia seems to have thought they proved vur that any individual cognition can olam sessed primary self-versione. What they do minima is that it is useless and in fact meaningles, to look for scripters of knowledge outside knowledge. or for s blogge, do to be represent of final section of the scripters of the blogge. As to be represent of significant, this is a precision difficulty to which the Minimateus view is as likeles as any other. For there is slavage of by saving that knowledge is self-ordent; for a self-ordence which only deposite the guarants of truth.

SECTION 3. NEGATIVE JUDGMENTS

The second and third 'sentences' or $v\bar{a}kyas$ in the $Ny\bar{a}ya-bh\bar{a}sya$ introductory to $Ny\bar{a}ya-s\bar{u}tra$ I. i. 1 are as follows:—

sataś ca sadbhāvo 'sataś cāsadbhāvah

and

saty upalabhyamāne tadanupalabdheh pradīpavat.

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). Vātsvāvana savs : satah prakāšakam 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 nāstīti)' ''.

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-existence¹. 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 *sitra* needed some explanation. Vätsyäyana, after the observation that the instrument of apprehension that reveals existent things also reveals the non-existent. 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 sastra will have taught what does not exist .--- eo 1080. Uddvotakara' savs 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 (pramāņavişaya, 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 is another aspect of the dialectical difficulty about the negative judgmenthow 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 party of reasoning, a cow would not be distinct from a pot.

SECTION 4 CONDITIONS OF POSSIBILITY OF ERROR

Vācaspati Mišra devotes a section² to the likeness between the existent and the non-existent (sadasatoh sārūpyam), in connection with the problem of

^{&#}x27;NV p. 10]. 5 ff

^{*}NVF p. 53 1 If, in his comment on the second stars the topic being the nature of error. He is dealing at this point with a false negative existential underment e.g. the assertion that the soul does not exist.

error. His general position is that false judgments always proceed on the basis 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'". For instance, when the jaundiced eve sees the white conch as vellow, what happens is that (a) we experience the vellow 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 vellow with the conch. Owing to our failure to anorehend 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', there arises a similarity with the residence of bitterness in the Neem tree, etc., and so we form the erroneous

P. 52, 1 15, na hi dtu rūpam rasādiņu hastinam vā mašakādiņv

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dropayants "The whole passage is difficult to interpret, and particularly the phrase asambandhägrahena pilacırabilvädisämänädhikaranyena särüpyät, and the corresponding phrase sambandhagrahasarapyat tiktanimbasamanadhi-karanyena. [The first instrumental case is the instrumental expressing the means which he second is with estatements in generating a sphere state of the second is a sphere state of the second state of the second state of the second state of the second state of the sphere state of text

judgment that this sugar is bitter. But the process is so quick that we are not aware of the succession of phases in it'. 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 Vartika meets this objection by pointing out (NV. p.25, 1 13) 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 Vartika 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 or.

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

¹atıfiqhratayā caisa kramo na laksvats NVT p 52 1, 24

annymizaji cinja ramo na integan svi 1 p oz. 201 *ecom deconfedenkovilikalizavležka ego kakhamed atřepigem dů. nipem p 13, last lno. The illanon of the alticarity has had a notable knicey of caparance-one Lakikedster 1. 10, 12 Vl 3 and 43. 1 to lorvevel, ni thu uve, by the Caudyabdiyakrikä sec Dasqu'a, Hutery of Inden Philorophy. 9485, and Paddegon, Yazishe System, p 65. In the Nyšpastirz, TIL 16. the illustration zu used in a different way, to support the contentron and companies cannob the similanouu-where they seem samilances, it je really a case of rapid succession, producing the illusion of simultaneity-like the whirling firebrand.

and the parallel list of orthodox doctrines, given by Vätsyävan in the *Blåzya* on the second *satra*': 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'. Accordingly Väcaspati proceeds to classify theories of error'.

¹⁴NBh p. 71. 14 to p. 8, 1.6 grees the last of hereause, e.g that there is no scait, that what is not the scall (for example, the body) is the scall; that what is really pantful is pleasure, that the elernal is non-sternal, that scirrity does not entail. 'Kerma' and the fruit of kerma, that transmigration does not mmply a being that is horn and lives (entire free r8) a sport (afters, mac.) or sciel which these and after death is , that transmigration of a continuum (semtéma) formed of body, organs, 'buddes', and 'eedamd', and does not pretain to a sciel (invirtimely) in the con

The parallel list of orthodox tenets is at $p \in \{1, 20\}$ ff. It is introduced by the remark that the true doctrine is already implied as the opposite of the bove heresies—*i*-attractionifiant in khali mithyöjifänasiparyusyna uyäkhyötäm.

Weapsti seems to admit that the first hereay, that of denying a socil, is the Boldbins maximyseless, might clasm cortain advantages, as a means of putting an end to desire and aversion (régidimertithetur neurilmysdorfenem)-fort is a bin 'self' (dena) that a man lores and works for, while he later and works against any who stand in the way of this 'self'. Usi, say Weapsti, the dortme is the prime source of the heresy (refp) that there is no 'karma' nor fruit of karma, as also of the belief that there is no such thing as transmignation

"The older school of Nyäge was perhaps a little uncertain in its doctrane of truth. It was rather the Mind-Sacka, with his doctrane of seata/primäpys, who successed best in formulating a self-consistent theory of truth. The Nyäge school school the doctrane of perstab/primätegia in opposition, mamby, to the Mind-Sacka mastence on the self-evidential horacited of screptural subtories. But the school dd not carry out the doctrane theorogably in application to all the premdges. It would in fact be doctrane theorogably in applications to all the premdges. It would no fact been later on, in treating of the Probativess (restab/primaty). It will be seen later on, in treating of the Probativess (restab/primaty). It will be subject to ambyen of the school of the school of the school of applications of approximative, monitome measuing proof ', but more table', remember of approbension . It is the ambguity which finds expression in the doctrane of perstab/primaty.

"There is paralleliam of thought between the fivefold division of theories of error expounded by Vácsapati Misra, and the discussion whether false optimon is possible in Plato's Theoreticus 187 D. f.

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 jidanam*)'. Vācaspati Mišra' adds that the question as to the nature of error is raised because philosophers hold different opinions about it (*parikṣakānām tipratipatteh tamśayah*).

(i) Theory that the object of erroneous judgment is merely subjective or ideal—ātmakhyāti.

"Some say that error is cognition consisting in a presentation and making externality its object"." That is, error consists in projecting urder the guise of an external thing what is really only an idea. This is the view of the idealistic school of Buddhism (vijñānavādin), and is known as the ātmakhyāti, or theory that the supposed external object is only the self (i.e. only our own 'ideas')

Vācaspāti 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

NV p. 26 | 4. kah punar ayam siparyayah? cp. PBh p 199, | 18

*NVT p 58 last line, ff See Keith ILA, p 48 ff, and Ganganātha Jhā's Sadho Lei Lectures, chapter III, p 51 ff.

Jak's Sakob Lei Lectures, chapter III, p 61 ff. "relations babagicsersquering frainant programmet. The thought as babygicapt problem in the second strain programmet. The strain of the babygicapt problem is a second strain the second strain as presentation under the gumes of externality. These 'n the mind' are matisten for thang "without the mind'. As regards the rendering presentation for relation in the second strain the second strain the second strain the second strain "without the mind". As regards the rendering presentation for relation to relation of the second strain the second strain the second strain Second strain the second strain the second strain the second strain the term differs in the thought itself assumes certain happen or forms. Second strain the second strain the second strain the second strain any shapes (mothers L ff. the pressage in Siderabharge transition) for the second that presentations or place over provide the strain strain the second strain str

belong to the non-ego (anahankārāspada), and does not declare it to be 'within the mind',-for if it did the experience would take the form 'I am oilvor' (anahamkārāspadam rajatam ādarsavati, na cān_ taram. aham iti tadā syāt),-seeing that the Bauddha idealist identifies the self with ideas (pratipattuh pratuavad arvatirekat). Perhaps the Bauddha will say that the apparent reference to a non-ego is illusory : knowledge is mistaken (bhrantam inanam), 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 cānahankārāspadam asya visayo iñānākāro 'pi). (Thus the experience itself, ' This is silver', conceals the fact that 'silver' is only an idea. But-) we can learn from the sublating cognition (bādhakaiñāna-' it is not after all silver ') that ' silver ' was only an idea (iñānākāratā punar asua bādhakaiñāna-To this Vācaspatı replies that if the pravedanīvā). Bau'dha would put aside his idealistic presuppositions (vaiinānikanaksapātam parityajya) he would see that what the sublating cognition denies is that ' silver ' is the form of the object before us (purovartidravyākāratamatram pratisedhati rajatasua) · and it does not suggest further that 'silver' is only an idea (jñānākāratām apu 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 (purovarttitva), 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 character¹ The answer to this is: whence comes this notion

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¹Basading, as conj, aryž atannayedhab for the textual asydtanni sedhab, asyžž, in this conjectural reading, will stand for yndrakkratážyži. The meaning simply is that though the also character of the object does not emerge when experience does not contraduct our judgments, it comes out leasty secondy in a fulse judgment subsequentity contradicted by experience.

of silver as existing 'within the mind', seeing that (by your own confession) it has not been previously so experienced'?

(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"". The passage in

'enterstorm supelabdhoccram kutztigam, he the Baudha idealist admits that in the primary experience ailver presents itself bähyatsad—as something 'without the mind'. There has then been no experience of ailver as may an idea. How then are we to infer, from the contradictory experience, an internality or ideality of 'ailver' such as we have never experienced?

In the commonecement of the argument V&compati has ead (r. 64 i. 6) that the desire of aircress tax setablished either from the experience that the desire annotated at the setablished strong first dependingbague, semandad at The text has annihished. Here, there is the setablished the desire of the desire

The question remain whether all informer really can be related to wylogum. The question which Vasaptia take -minere dow age it the notion that fails objects are 'only ideas '7---- is very perturant question. But it is a very convenient way of disponng of 'failse objects' to relagate them to the innot on the weak of the take objects' to relagate them of error, the implement or presumption (orthogeth) that 'sitter' (erroneously which hold is the full However, with the afterdised, we can comparison that there are no 'failse objects', we shall be able to dispense with any neces style for 'failse.

NYTT p. 64 1. 1-onys 'sadousayam thänsm, see Koth ILA p. 49 'the nihulut doctrane of the Madhyamskas, according to which all appredasion is of the non-existence 'a catakhyddi), and as interi non-existence 'A a matter of fact the Madhyamskar reduced to make so definite an assertion as that of the non-existence of all things. Its favourise formula se that of which Väcaspati Misra states this theory is as follows¹. "Let us then follow the lead of the sublating judgment (i.e. the judgment 'after all this s 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' (rajatajänåagocarasyäsattvam grhnäti). 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 (scatkäranädhinah simarthnätisayah), of such a nature that in virtue of it

Nggrupa's Mädgamukestra I 7 ns son näon ne sadaom darmo nevertale. He tras to kopp an equipue between forei alematives (attable)) on the same set of the same set of the same set of the same imakedurishestermunktan dingsame set of Possan in Meeks, n s. vol. n. p. 174 nose 50, Gough transities ... "The ultranks principle, then, principle and the same set of the same in the same set of the meaks of the same set of the same set of the same set of the reality. The segment of the medias transmission principle in that i defend of media by the S20, and renearies by Posum in on the first set of the same se

reality, from both (reality and unreality), and from natine (reality nor unreality). The explositor of the medus statesmus principle in that of alertic is perhaps a more likely explanation of the name MdMyamika than their devices the state states and the state of the SDS that the Boadda million is a state of the st

The purport seems to be that a unit failed of the control of the second by the failed of the the bottom out of the universe because error tears sounder what can only take on the guise of reality as a complex. But error exists Ergo, nothing is real

1NVT, p. 54, l. 16 ff.

knowledge can make the non-existent, as well as the existent, its object (yena santam iväsantam api gocarayati). Efficacy of the object is not required, since we can explain objectivity' from the bare efficacy of the cognition (na a visqussamarthyam upquiyate, päänasja sämarthyamäträd eva tadbhävasidäheh). 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 (aridgaira) or 'irexpressibility' (aritrocaratyateu) of cognition'''.

Vācaspati now³ proceeds to criticise the *asatkhyāti*. the theory that error has the non-existent for its object, from the standpoint of the Nyāya.

"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 existent (as at saddimanä grhyäti, i.e. grasps non-existent silver as ex-

This is the Vedditin theory endud and survecestive being technical terms in that system. For a parallel to these concepts, see Plato, Resp V 477 A.fl. devide corresponds to opinion', $\frac{2}{6}\frac{1}{6}\frac{1}{2}$; and its object of ound of the expression of the second seco

That there is knuhip between the Mådhysmuks school of Buddhum and the adenteetden or absolutist school of Vedenta has often been remarked. Yentämabluksu m the Sämkhyspressessabhäys (18th century) calls the latter pracokama-bauddha, Buddhuss in diagues'.

"NVT p. 54, 1. 22 atredam diocaniyam, etc.

^{&#}x27;tadbidea=euquată 'is being so', ie. its being an object, suduja.

isting); or is it meant that it is the existent that is grasped as another existent (sad epa sadantarātmanā arhnāti, i.e. existent nacre is grasped as silver), and that the object is called 'non-existent' because the existent thing (nacre) does not exist as something else¹ (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 cognition · 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 Naivāvikas who hold the anuathākhvāti view of error (i.e. that the object of error 18 the existent appearing as other than what it is), do not hold that one existent thing exists as another existent (sadantarātmanā sad abhuupagacchanti). Such an admission would destroy the whole theory that the existent is cognised ' otherwise ' than as it exists (anydthety eva na suat). The upholders of the anyathākhyāti view have themselves " what is apprehended otherwise (than as it said' :

^{&#}x27;satas' os sodantarātmanā 'sattedd asadvesayam uceste This slier natīve of course amounts to the Nasyāyika or enyathākhydi: theory, ke Vācaspati proceeds to point out.

²atha suktse eva rajatätmanä 'satiti tadäkäratayä täm älambamänash mithyäjhänam asadälambanam ucyale, p öö, first hue

mithydfataan ceeddamoonam scylet, P 00, mis into "yathahad myalhkhydisidana i Leandd yed anyathd praipddysta fan mirdlambanam jfdnam ceeddlambanam ce (ad. The citation is noted by the editor, Gangdalhars Skeir, m the last of unidentified quotations green in his prefece. The quotation looks his to statement of the seatkydit waw

is). is cognition without objective ground, cognition with non-existence for its object '. At this point' Vācaspati commences criticism of the Vedāntin view of anirvacanīvakhvāti, 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 Anirvacanīvakhuāti .

Vācaspati's cruticism of this theory is as follows :----

" Nor can it be said that no account can be given (anirvacanivatva) of the actually present substance in its character as 'silver', -seeing that at the time of the erroneous judgment it is designable (nirvacanīvatvāt) 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 (sadasadbhyām upākhyevatnāt). And as for the 'phenomenal existence' (prapañca) of the absolutist (advaitavādunām), 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',-such a view is impossible · because that to which no term is applicable (sarvopākhuarahitasua) can be like nothing whatever, and

'NVT p 55 1. 5-na ca rajatātmanā, etc.

but no doubt it must be read with the qualifications suggested in this passage, i.e. the object is non-existent only in the sense of not being what it is cognised as being

[&]quot;AVT D as a base or regationed, etc. "The is no longer a theory of erroneous judgments about pheno-mens as contrasted with correct knowledge about phenomena- but a theory that all knowledge of phenomena m, as such julmano. The Neufgrke's base of the state base of the state of the state of truth, if all knowledge as illu-son, there is no truth of which error can be the "semblance" is and so there can be no error.

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 *Vedāntin* 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 (*asamticna*), 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) Vacaspati gives an account of the criticisms brought against the Navyäyika's theory of anyathäkhydi,—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 Mimämsaka theory of akhyät; and it may therefore be supposed to be a criticism of the Naiyäyika from the Mimämsaka standpoint primarily

(iv) The Mimärisaka theory of akhyätı,—error as non-apprehension

A. Criticism of the Naiyāyika view.

"It may be (that the Vedantm's theory of the inexpressibility of the object of error is open to the objections urged by the Naijajika above. But the Naijājika view is no less objectionable, for the following reasons). That the object appears otherwise than as it is, contradicts our consciouaness (samaidaruddha)'. And error certainly cannot have for its objects things simply as existent (sadhhāramātranālambanataram) If simple existence (tamathra i.e. sadhāramātran) were the

 $^{^{\}rm CO}$ NE p 180 1.13 dam royatam is nähnages akkikkälambanam isi ha sahnadrusakam. Jaayah ha sahnadrusakam royatam praibkäl, na säkkälä That is to say takit anare sa ha gronnd or object of a cognition which has sitter for its best of the same takit of the same takit and the same takit and the same takit and the same takit of the s

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 (sarvasarvainatvāpatti). 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 (karanatvenalambanatvam). For the eve also, no less than the colour, is a cause of the cognition .- so that it would follow that the cognition (of colour) has the eve as its object1. 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 (tasmät pratibhäsamänam älambanam). And, this being so. vou would have to say that the presentation of silver has nacre for its object (rajatapratibhāsah śuktikālambanam iti)-a position which it will be difficult to maintain !

Besides, the competency or efficacy (sāmarthya) of the eye and other sense-organs is for the production of right cognition: how should false cognitions arise through them?? Syāmaka-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 (doşasahāya). But this will not do. For defects impede the competency of causes, but they do not impose the competency of producing a different effect. Kutajagran, when parched, will not produce a banyan: it will merely fail to produce a knaja. Besides, if the

[&]quot;ripidirentianent ripidarese calcuration op. karagom et concertation autoritation estimation and a second and

[&]quot;The sense-organs are pramānas, 1 e pramākarana, instruments of knowledge. How can they be instruments of error?

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

At this point¹ commences the account of the Mīmāmsaka theory of akhvāti, i.e. the theory that error is inadvertence, a negative thing consisting in a failure to note

Statement of the Mimāmsaka view. R

"Therefore all cognition must be held to be correct cognition (sarvam era viinānam 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)³ and the latter a memory. The ' this ' is apprehension of barely an actually present substance (purovarttidravuamātragrahana) : because, as the result of a defect (dosavasāt) or impediment to apprehension. there is a failure to apprehend the specific universal (sāmānuavišesa)" ' being nacre ', which is resident in it (tadaatasuktikātva).

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 (arhitagrahana = a secondary experience), presents itself simply as apprehension (grahanamätra, as opposed to grhitagrahana, = a primary experience); because the aspect of

NVT p 55 1 96

Dr. Ganganatha Jha notices the difficulty of rendering anubhava,-Dy. Gadginitha Dia noisee the difficulty of rendering envolves— show whole cores all expressions older than summary As it is contrasted to the second second second second second second second second second recall of a provision experience, "primary coparisons of may here as as rendering that direct' here does not mass immalay?." This translates direct appresence of the second second second second contasts universe. It is an expression of the second second second second sector dec) from the summary second second second second second second sector dec) from the summary second second second second second second sector dec) from the summary second secon

samanya-see Ui's Vastesska Philosophy, pp 85-87, 67, 70, 175, 180.

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referring to the previously apprehended (grhitatäria) 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, af 'silver'). And so, as a sesuit of not apprehending the difference (*bheddgrahana*) in respect of nature and 'of object between the memory of silver and the primary apprehension of the actually present thing, the two ogenitions,—' silver ' (remembered) and 'this ' (perceived), ---aithough separate cognitions, nevertheless, through resemblance to the case of cognition which has as its object silver in actual contact with sense, set going the judgment of identity' 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 perceived barely as such (scartpamättergia) without its qualities. Thus, as the result of failure to notice the absence of connection between this subject (the conch-which is really white) and this attribute (the yellowness-which really belongs to the bile), and because

^oCp. NK p. 180 l. 16 tadityamiapramosam rajatasmaranam. ¹ abhedayapahära.

"Antendativiterreproperties. When an adjustive qualities a wolsentres, it is and to be a case of semandativerapes. Go Pargun calls a kormaditarega compound a samäsdähiarega-tapures, I. it. 43. In a compound moh, as molopaids, a bits ottos, both bits and iotau refer to the same additorets or subtrate , whereas in the ordinary factorizes com obstrates, more king a man (outdon), king and iman refer to iddeened with the subtrate of the same of the subtrate of the subtrates.

^bahirmrgacchannayanarafmusarinağ pittadrasyarya kisaryesitisvacchasya pitatsem az grhyats pittam tu na grhyats. The idea is that an coloar (of some adjacent object) is seen in a crystal, so is the yellow blis-⁵ ff seen in the sra-beam. of a resemblance constituted by its being indistinguishable from the cognition of the vellow cirabilva tree, a judgment of identity and an assertion of community of locus takes place (i.e. we say that ' the conch is vellow '). 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 (yathārtha), because they are cognitions,-like the cognition of a piece of cloth' 1 ".

C. Naiyāyika criticism of the akhyāti theory

Having stated the *Mīmāmsaka* theory, Vācaspati now^a 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 guestion 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' between them.

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

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¹ΥBcaspati brushes this inference aside as 'sublated ' by perception bādhita, p. 55, below.

WFT p. 56 l. 18 evanh prapte abhidhiyate, etc.

[&]quot;The two alternatives are bhedägraha and abhedagraha.

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 Naiuāuika 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 bhedāgrahasuopauogah)? You may answer "The sight of a tree simply as such does not set acting the man who wants a simisanā-tree, because in that case there is no cognition of a simsapa . but in this case there is cognition of silver-the separateness of which is not apprehended-through the cognition ' this ' "'. But unless the silver is cognised in the actually present substance, or the actually present thing is cognised in the silver', 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

[&]quot;The text has parceartenestugrahayaragistantidad agribitabledam. But it maccessary to read parceartenestryarhayam, etc "satt is the rejatesynthesia agriklabhead idem iti yhänema Tho precise relation of the thought "the "to the thought" alter" is not molected by this ambiguous phrase, which merely asserts that the former thought is somahow matrumental to the lister. In the following sentence VEasapati tigs to force the opposent to a more precise formulation of this "matrummathity

nanu rajatavyflänam purovartidravye na variate purovartijflänam os na rajata its.

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'. (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 silver-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 analysis⁴ for he is drawn both ways 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 Mimārinsaka). But you will have to assign a function to the subject's ' non-apprehension of difference ' even in the origination of your socalled viparyayajñāna or 'erroneous cognition' : otherwise

^{&#}x27;sady seen, ide resten inne suktor ti bhaddochdarennelaarpoo headyne, een oblefyndd bhancorphiaeddochdarennelaarpoo headyne, een oblefyndd bhancorphiaeddrigen op The erymentem of kommen is juutibab, boaase the Arindsteela is speaking to mere negative in he shight. Mere non-sperdennon can de erysflam. Thulter to motier will be ahle in erysprehension of the erysflam. Thulse to motier best will be an much non-gymbanism of the erysflam. Thulse to motier best best and the single base of the serysflam. Thulse to motier best best and base of the single base of the erysflam. Thulse to motier best best base of the single b

it would come about that erreneous cognition might arise in the case of persons who had apprehended the difference (which is abourd). 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 namapprehension of sameness between this and silver, just exactly as erroneous cognition results from the one aspect of the non-apprehension, viz., from non-apprehension of difference between this and silver?' So that the argsment which you use to confute our account of the process' will serve us to confute ours.

As the upholders of the theory of error as non-apprehension (akhyātivādinah) have said: 'For those also who hold the theory of error as contrary cognition (sigaritakhyāti-anyathākhyāti) error is dependent on the influence of non-apprehension'.

Not so (answers the Naiyāyika). 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 apprehension¹. 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 to this is silver '-a judgment to the set of the second term of the conditioned term of the second term of term of the second term of term of the second term of the second term of the second term of term of

'tatra yas tava parihāras so 'smākam vyavahāravyapadstayor Ghavişyatı.

"Noted by the editor as an unidentified : uotation:

*maıvam, jäqnahotünäm ejäätarüpakäryasambandhänäm cakjuräämäm daráanäo, ostanavyavahäränäm to sbuddhipürvakänäm apratitoh.

Vacasati iesches that there are two kinds of cognition-cognition which comes from previous cognition, and cognition which does not. Beneprospecifica lactures to the latter category. Now in the case of coscopies indement i.e. redgments formed by a cognition groups, is in on possible is treat large experimentation of differences is as capse of the resultant cognition if while conditioned by a previous the conscious plagment cannot being conditioned by a previous the conscious plagment scanes it Mimainsakas suppose, on failure to apprehend the difference between 'this ' and ' silver '),--then whence come s' jidgment 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 forticlusion then is that the so-called ' non-apprehension of 'difference' is simply the Illusory attribution of a predicate to a subject (samāropa eva bhedāgraha ti siddham).

(v) Formal statement of the Naiyāyıka's anyathākhyāti 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 pravartakatoti*); 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 silver) does so (i.e. directs activity on the actually present substance); therefore it is so (*tasmati tathā*, 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' (anavabhāsamānā šuķtikā aļāumbānam ita),—do you mean that being nacre

comes in www.scuty - but as the it is mean to indicate is that the applications is a file angular subject of an again the form also. "See (iv) A above, where the criticism here met are stated. The, particular criticism meant here is stated there in the form rejatepratibh&sab skitki&means. See p. 67.

[&]quot;Thm is a statement of the seddlents, or established Neightfue doctrme, in the form of a syllogian or patclesspreasible. The only difficulty shout the statement is the maserian at this point of the words is table cated: (I have comitted the words in translitiong). This is the formula for the spreage or fourth member of syllogian when the syllogian is stated in heighter fourth, as an argument from a syndle or negative scample. No comist in a with words in translition of the syllogian is stated in a withwardly but all that it is meant to indicate is that the argument is of the snearest vertice starts, and so would schurd a parasitive form also.

(suktikatva) is not the object of the cognition of "silver '? If you mean this you are only proving something which is already admitted (siddhasādhana). 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' : 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." 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*.

And the inference to the effect that ' erroneous cognitions are true to reality, because they are cognitions." ought not to be put at all, seeing that it is invalidated (apahrtavisaya, i.e. bādhita) 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).

'The text has (p 57 | 21) uttarasminnavabhāsamānatvam asiddham. But the sense clearly requires anavabhāsamānatvam and I have read this P 67 above.

"of above second in hardly as anapple we taken from unnatural barkery, and the second in hardly as anapple of a 'different 'effect-aillough the "fee above, p 70 A syllogians of whole the "poperties" we take the second second second second second second second understood, and need not be further examined. It is obviously easy to minus this notion of 'blacks', and the substitution of proteriopoperametrica (by the substitution of the substitution of proteriopoperametrica (by the substitution of the substitution of proteriopoperametrica (by the substitution of substitution of proteriopoperametrica (by the substitution of substitution of substitution of substitution of substitutions addition of badha and satpratipakes, sublation and neutralisation) for the addition of båfka and astpratpakse, subbiton and neutralisation) for the forringing (the bitme canon) as a criterion of asymmotis secure unfortunate (blough, so far as båfka is concerned, it has the autority of the older Prestengials and the secure of prestrefablica-silo, reconsistivity, in Buddhuri logos under the guide of prestrefablica-silo, reconsistivity, in Buddhuri logos under the anne guise). In the present instance the appeal optim is that the judgment i thus is not suiver i does not affect the truth to reality of the original i thm is not suiver i does not affect the truth is reality of the original i.thm is not suiver i does not affect the truth ¹pramdpsbhdas means fallacious proof, as hetrabhdas means the gagsial kund of fallacious proof consisting m a fallacious reason. It has been noted above that 'growt' is not a correct rendering of pramiga, but the paraphrase 'instrument of valid cognition ' is (though more accurate) too inconvenent.

"The first of the three väkyas embodied in the Bhäsya on NS I. 1. 1. See p 49 above.

promonatable The termination is properly ablatival. But, as Oddyotakara points out, the force of the instrumental case also is implied here.

"The criticism last answered is that last put by the Mimärksaka, p. 68, above.

This concludes the discussion of the theories of error, which extends from p. 50, last line, to page 57, last line, in the Täiperspätkä 1 have simulaided the passage in extense, because its serves as a locus classicus for the topic, and because (so far as 1 am aware) the Täiperystikd has never been translated

CHAPTER II

PERCEPTION

Indriyarthasamnikarsotpannam jhanam avyapadesyam avyabhicari vyavasayatmakam pratyaksam

is the object in perception real I—Can perception be erromous? (first part of the epithers a argument and the epithet eyebhcors in the Nyace suriar definition)—The segument from dreams against the reality of perceptial objects (second part of the ertikkrs argument)—The dualectic of whole and part (Nyageustra 1V i 4-57) Does the object dualevine under analyzus I—La thought dutinguishable from the object of thought? (third part of the ertikkrs a argument and the epithet argepadelyze in the Nyageustra definition)—Can perception be doubtin!? (the epithet spaceagetmecks in the Nyageustra definition)—The nature of the contact in perception (indrigrafficatementiares of the Nyac suite a definition)—The two moments of perception and the modes of contact (Prisécsiphés a dectrons)— Simple apprehension and the per coptial judgment—mirekliphéséphene (Srahkra s polemis égainat Dh mages account of perception) Kanabanguesde—The universal as real—Recollicon Attention and Association

SECTION 1 REALITY OF THF OBJECT IN PERCEPTION

Perception is the one instrument of knowledge admitted by all schools alike¹ The obvious conception of a contact between sense-organ and object (*indrivita thasamnikarva*) was the starting point for the development of the doctrine and appears in the

¹For the ancient materialist school (Cartelias e et Lokäyste e) repect all other sources of knowledge even inferences (BDS chapter 1), and the Buddhuit scopenias school (Kingsessäng or winhiths?) silfurogin it a cartain sense repecting all means of kinwledge, nevertheldes society perception such stematics are instant all within the sense of the sense

Nyaya, Vaiśczika and Mimānsā sātras¹. But the ambiguous character of the 'object' suggested doubs 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 is fortunately An early statement', of this refutation is fortunately

¹NS I 1 4 indrugsthasshnikarophannen plasm avspaddopm arphöhrde syspessigstämäden progradeam. ² Perspin an karophangia esisteksi from contact of organ with object: it is analopendent of verbal expression, ambukater, and III, il. i vhohrd odd menne as a tourin tactor in the contact which is the conduction of come karole of perspin comes of the ontact which as the conduction of some karole of perspin comes in a start which a start of the start of the start of the same start of the start of the start of the start of the start and is conduction pleasure and pain in VS vi. It is demending atomic the start of the start of the start of the start of the start atomic start of the start of it is partly derived from these. A list of these passages is given by Peddegon. P Startson.

The reference in the Minished Softra is I is 4--statemprised participation of the segmentraphysic multidevention at a protection of the segmentraphysic multidevention of the segmentraphysic multidevention of the segment of the seg

[It is worth noting that fabars in his comment here uses language which suggests that he had the definition of the Nydys Sütra in mind : e.g he substitutes the term somtwikars for the sampsingon of the sitra : and his stapisrakated (=dependence of inference on that, i e, on perception) seems an echo of the word tarpisrokam NS I i 5]

⁴ Gashara's classical relation of Meshamin in has commentary no relation Sites, 17, m. 38-38, we set least four centures later. Sook has argued in an attaich on the Date of the Philosophical Sites (IAOS xxxx 1911) that the arry savings in the striper and in Sitesmi's BAdya and the Nyfsy-Abdya which appear is relativ idealam are not really relationed of idealamin (spheroidsd) but of hullim (dealamin are not really relationed as a striper interfamily that the striper is the striper of the striper is the striper sector of the striper is the striper of the striper is the striper sector is striper striper is relative to the purified is again Siderinsky and (i.e. e., planet) peense in the artice striper and Wadyars have sector the striper state. Theorem is deviced in the striper is the striper of the striper Siderinsky and are interface, relatively in the striper is the striper of the striper is the striper striper is the striper of the striper of the striper is the striper striper is the striper is the striper of the striper of minimum, yet the doriton is the striper is object in the striper is the striper of main the striper is the striper of the striper is the striper of the striper is the striper is the striper of the striper is the striper i preserved in Sabara's Bhāşya on' the Mīmāmsa. Sūtra, and forms a convenient preface to the dectrine of perception.

The 'vrttikāra'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 Vatsvavana's interpretation, led to the insertion into the Nyāya Sūtra definition of the two words avyabhicāri and avuapadesuam². The second part meets the 'idealistic' argument from dreams which is dealt with in a later section of the Nuāvasūtra in the course of a polemic against Buddhist views'. The three diffi-' perculties are (1) the existence of erroneous centions' side by side with true perceptions; (2) the existence in dreams of 'perceptions' which admittedly have no basis (nirālambana) in an external object present to sense, and (3) the impossibility of characterising (vuapadis-) cognitions without reference to the objects cognised, so that thought without things

s-spicons (as it was historically prior in the history of English hillesophy, Hume building on Berkeley's presences). Kunchris is thus justified in asyng that it as liter acting ande the reality of the object that the supportion of a numbar unreality in the idea taskel is made: and that fakars in the HBApp has much the support of the support of the support of the support has not a support of the support of the support of the support is the bask doctrone (Joke Yarkis, anvilambeneedd, years 12-16)

is the basic doctrime (dioke Variaka, mrillambonaedde, verses 15-16) "The Miradrefs zn not result a philosophical work but a system of exagence. But the first sector of the first chapter (commonly called the scheradda or logical societion) of bisars Bdage data with certain logical distinctively philosophical Miradrefsko, schools (ranged by Trablikkars and Kumkring The latter's Bokar Statistics, activation (single by Trablikkars, and Kumkring The latter's Bokar Statistics, activation (single by Trablikkars, and Kumkring The latter's Bokar Statistics, activation (single by Trablikkars, and Kumkring The latter's Bokar Statistics, activation (single same firm) and caller commentator (the wirnout) identified a socomyons "eritidat") which con-John Jdentifies the argument of the paragrege with that of 7.64648 Statist 11, is 80-304 (but not with Schikar's integretation of the paragrege and with thas of Ayley Statist TV. H. 12, as

The sytticities passing commencing S. Bh. p 9 1. 11 M so closely gazallel to Välayäyana's difficult exposition of the word weyspadefyst in N. Bh. p. 13 1, p 14 1 6, that the two passages are mutually explanatory. NS IV 1, 81. seems empty, void, or nothing (śūnya)¹. And, as things have already been shown to be unreal, the paradoxical conclusion emerges that everything is void-and-nothing (śūnyazārda).

A. FIRST DIFFICULTY

SECTION 2. PERCEPTION AND ERBOR

The argument in Sabara is as follows:—The opponent says that the means of cognition need examination, because they sometimes err (ryabhacărăt partkețiaryam). "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 optickar answers with an amended version of the stira:—tatsamprayoge purusasyendriyānām buddhijanāma sat pratyakaam—i" When a man"s sense-organs are in contact, with that, the arising of cognition is

The three difficulties, and the three parts of the 'refutition', respondingly tracked in three distinct sections by Kumflin in the Shorestrike, 'tim-disting the section Astyptickee're, which are separated means only as a cutation of the Yritkee're view'. (3) the two hundred couples of the Showsee'refuter (1) the two hundred so that the tracket is the section of t

true perception''. In other words, perception, pro-perly so called, is cognition which has as its object the very thing with which the sense-organs is in contact (yadvisayakam jnānam, tenaiva samprayoge¹). 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-cognised, 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 how is it known that defects are or are not present? The answer is : "If after looking for defects carefully we do not find them we accept the experience as not impaired by defects : because there is no proof that it is so impaired"'.

^{&#}x27;01 the bask Mandylke characternature of true cognition as instructure dat in infaname.'''convolution of the schott''. Xiomiria (silaberätrika, Pratyskassitza, I. 49) explana presoga as operation (redspira)--mot horesavarily imprira contact. Bait ha appears to hold that the SGBAkkey explanation of perception as contact had not been shaken by Beuddhe orticisms.

[&]quot;The onus probands is thrown on the doubter of the validity of perception. The mere fact that error exists does not carry with it the implication that there is no truth.

Vātsvāvana, commenting on the word avyabhicari in the definition of perception given in the Nyaya Sutra' answers, the same objection to the validity of perception in the same way?.

" 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 cognition 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 pramā or truth, is an instrument of error).

" It is with reference to this possible objection that the word avyabhicāri is introduced into the definition. Cognition of 'that' in what is not that (atasmims tat) is characterised as vuabhicāri : while cognition of 'that' in what is that is avuabhicari. non-erroneous. Perception is non-erroneous cognition"'.

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

"The person is at 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 dispersion affects it and impairs its efficacy.

"So too the Buddhist describes it as abhranta which = avyabhicari. But his addition of kalpanäpodha transforms truth of perception into novel shapes

^{&#}x27;It seems clear that MS I 1. 4 was intended as a definition of per-It seems case that MS 1. 4 was intended as a definition of perception and the NS 1. 4 belongs to a later time when the intedguscy of the Mindake definition had been realised "VietyYana's interpretation the general similarity of his pound of the other of the second similarity of his pound si

of imagination': for the application of the formula tasmin tad iti indnam—'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 kalpanāpoāka, '' stripped of ideas,'' by which Dinnāga describes pure perception.

B SECOND DIFFICULTY

SECTION 3. PERCEPTION AND DREAMS (IDEALIST ARGUMENT)

The second part of Sabara's argument' 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 (sarea eva nirālambanāķ scaņavet pratyugāb). An idea has no ground in external objects: reality (srabhāva) 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 no to grounded in any external object (tasmāt so 'pi nirālambanab)".

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

Both thus and the third part of Sabara's argument (Sabarabhaya β , 1, 20 to β , 1, 1, 1, nd ρ , 0, 1, 10 are transited by Jacobi in the article un JAOS raxi shows referred to Ketth gives an account of Sathara's parallel reduction the Buddart Photosophy (Oxford 1983) p. 965. See also Thibart's translation of the Vedatastive and Sathara's Commentary un Satered Books of the East, χ . XXXIV, pp. 618-468.

same way: prior to waking there was no difference in this respect.—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 (latsdmanyat). If the dream-cognition is false because it is an idea (pratayayatat), the same must be true of waking-ideas. The mere fact of having an idea is enough to establish falsity,—and it is impossible to say that waking-cognition is other than an idea¹.

The answer to this is that the falsity of dreamcognitions is known from something else than from their being ideas, inamely from their conflicting character. And if it be asked 'whenee comes this conflicting character?' the answer is that it comes from the impaired efficacy of the internal organ in sleep. Sleepinese 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.

Jacobi takes tathābkāss to mean 'being so', i.e 'being true'. Jarov iaken it a standing for the suthyābhāss of the preceding clause. He reads the taxtual protysysteät, instead of the variant reading pretysyāt, which I adopt.

SECTION 4. DIALECTIC OF WHOLE AND PART

The treatment of the dream-argument in the Nuāva 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 couplet¹ found in the Lankävatära Sūtra—

buddhya vivicyamānānām svabhāvo nāvadhārvats ato nirabhılanyās te nihsvabhāvāš ca daršitāh².

"This is the form in which it is quoted in the Sarvadardanasarkgraha (chapter on Bauddha system); but in the Lankavatara Sütra itself the second line runs-

tasmād anabhilapyās te nihsvabhāvāš ca dešitāh.

This occurs at II 175 and again at 1. 167 of the long verse section which ends the book (p 116 and again p 287 of Bunyin Nanjio's edition, Kyoto, 1928). Cf. the phrase buddhyd cuvicyamanam in a line occurring at II 198. repeated in the concluding section 1. 374 It is in this phrase alone that parallelism to NS IV in 26 is to be found. And the phrase seems to be a tag ' which would be found in other works as well . and this being so the 'ing 'Which would be found in other works as well. and thus being so the suggestion that the Mydge Satur school the Janges of the Landbeatter suggestion in the the Mydge Satur school and Maddy. S. VII. 54 in again a tag found in a score of passage in Landsferders. And I think that other supposed 'sreations' monitors from the Maddy source in the same way 'tage'. If we could be sure that Mydgeniae Satur school and the same way 'tage'. If we could be sure that Maddy and the same way 'tage'. If we could be sure that the first formulas the cause would be sure that the same way 'tage'.

different. As it is, all that can be said with safety is that the Nyays Sittes

[&]quot;The resemblance between the language of this couplet and that of NS IV 11, 26-buddhyā vivecanāt tu bhāvānām yāthārthyānupalabdhis, etc is pointed out by Vidyabhüsana HIL, p 46 But the Lankavatara shows prois pointed out by Voybabilaşka HI_L p. 40 put the Landsstard show pro-photic knowledge of things which happened long face the latest possible data between the start of the start of the start of the start of the start account of 1 in JRAS 1905—see Keth ILA, p. 23. Voybabilaşka draw stonton to sumhar paralleluma between Naşaruna Madiyamek Sötra and the Nøjay Sötra (HIL, p. 46, see Keth ILA, p. 32). Bot any inference as to the chronological relations of these works have to take the second the so to the chronological relations of these works have to take the second the start of the second the start of the second the sec (improbable) supposition of later interpolations in the Nyäya Sütra and also the (probable) contingency pointed out by Gopinäth Kavirāj in pp 12-18 of his introduction to Ganganātha Jhā's translation of the Nyāya-that 'tags' pass introduction to Gangdakha a lha's translation of the Negaga-that 'tag' pass on from author to suthor in much the same phraseology, and that such 'tag' may be much earlier than the work my which we first happen to meet with them. Thus one of the parallelarus (between NS IV. 13 28 and MAdhy, Sütze VII. 34-p. 177 of Poussin's editon) is parallel again to Fatanjah's Madhbhage on Pagnin IV. 1 (Kavirš, Loc. cf.) So that inference a precarious See next note also

"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 svabhāva 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 Sūtra 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 prive at a perceptible by summing up imperceptibles' 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 saving that the parts reside in themselves, i e. not in the whole And if the whole resides in the parts², does it reside as a

'Coupare Leibnitz's argument for ' petites perceptions '

"The stirckize's own position m suid to be that the whole rendes by relation it assesses in the parts. The whole is a constituted densities the tis constituted rendes (sensection) in its constituted rendes (sensection) is a strength of the strength of the imported from the *Fudepkie* spring. Thirmg he present sidro gauge as in face-raise, however, it seems that the stretchers intends sidro 11 as an anxwer to both alternatives, is he means that the questions (a) whole the parts rende in the whole of the whole or m its parts (b) whether the whole rendes to acked.

In this connection the interpretation of IV. 1.8 is important. On the face of it the stira denies the reality of wholes : though only by implication tannimitam is acayaryabimdang-"the cause of these defects (lust, etc.) is the consist of wholes', i.e. if men conceved of woman as mere segregates

repeats the formule of Buddhust fényaceda philosophy II and when we can solite the period at which these formule first beams current we shall have first the terminas a quo for the composition of the whole Settic, perhaps diven. But not the composition of the whole Settic, perhaps mentators (see Gadgáastiba Jhá's footnotes (o p 159, Vol IV of his transition).

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 Natuāvika : 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 Naivāvika 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'. 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

of unpleasant physical constituents, hones and blood etc., there would be essation of deters. The commutators say that the has no reference to the resisty of wholes, but merely teaches a useful moral derive. And yet, if the whole as a reality, human nature has a retor ready for the moralist So that it seems pair possible that IV. II. 3 really does being to a phase of the reality of wholes. In that case the passage II i 38-36 and IV. II 4-37 are lister additions—and the would lead IV. II. 4-37 are lister additions—final there are additions—and the would lead IV. II 4-37 are lister additions first here are additions—and the would lead IV. II 4-37 are lister additions first here are additions—in the source of the state of the deta additions in the source of the so

¹Perception does not function beyond its proper sphere (seasuayanatikramens indrivasiga prospitik). And the imperceptible is beyond the sphere of perception, indistinct or distinct. 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 object¹. 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 within as well as without the atoms .- To this point the reply of the Nyāya Sūtra appears to be that this vyatibheda or permeation is in fact a notion only applicable to things which have constituent parts (kāryadravya), because ' within ' and ' without' imply further parts (karanāntara)3. The all-pervadingness of ether is attributed to it on other grounds' than on the absurd supposition of its pervading the atom The opponent says, in the second place, that the atom must be thought

param trutch exactly translates the Greek atomos

*körys in such a context means a whole and körana means the parts which constitute, or are the samazöyikörana of, the whole.

"Stated in the next two states 21-22.

^{&#}x27;suita's 15-17 are the connecting link between the stiack on the whole and the stiack on the stom, i.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 dislectic-areagasized presenged cousem 4 praisguid

of as having parts because figure or shape' 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 another side is in contact with another part of it .-- To this very awkward difficulty the Nuāva Sūtra finds no specific reply, and contents itself with re-assertion of the impossibility of infinite division.

The opponent then retorts-if there really were external objects, it would be true that infinite 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 illusory². "As a result of analysis

'The assumption being that atoms must have some shape or other, being finite corporeal things Epicurus, in view of the difficulties arising from semigration operation in the Spectrum, in view of the difficulties arising from allowing that shows have arcterison and abape, maintained that the store is not the minimum but the indivisible II seems to me that it is precisely these two revew of the atom-as the minimum, and as the holdrenblow-that are stated as alternative possible views in NS IV in 16 and 17 ms prelayor image/black is provide simplify. "The acternation object does not vanish (as the result of endless division into parts), because a minimum remains Or else something which is beyond division ". See H A. J Munro's Lucretsus, Vol. II, notes, on Lucr. I 599-634, for Epicurus' statement . elontal Se in the second difference of the theory of theory of the t

On Epicurus' view therefore the atom has parts but parts "abiding from all eternity in unchangeable juxtaposition "--sunt solids primordia esmplicitate qua minimis stipata coharent partibus arts, non ex illarum conventu conciliata (Lucr I 609).

Epicurus therefore finds some sort of answer to the difficulty here urged But Indian physics conceives the atom as a minimum, calling it sitways by the name supports conditions (=minimum), and having no kern which gives the precise sense of *atomos*—though of course the paramäsu being a minimum is also indivisible. If the storm is a minimum, and at the same time figured, there is no escape from the difficulty which the opponent here raises

It would be possible to find an echo of Greek thought in the alternative

It would be possible to find an ocho of Greek thought in the sitemative Greek in IV. in 16 and JY. Ci Kethi LLA, pp. 17-86. then, Tod some bhards buddhe derigt in such as a site of the set of the se

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" (1V-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 nalysis.—The reply given is that the reasoning of the opponent is self-contradictory and therefore false (*vghatativid ahetuk* 1V-ii-27); which Vätsyäyane explains to mean that the 'analysis by thought' spoken of by the opponent implies that there is something to analyse after all².

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 (taddšrayatrāt—28).—The opponent's reasoning is further self-contradictory because in asserting the unreality of everything it denies the existence not only of the objects of knowledge (prameya) but also of the instruments of knowledge (prameya). But

said, there is an 'idealistic' moment in the *dünysväda* argument. It is this aspect of the sceptical disloctic to which we pass in the present passage. See also supra, p. 30 n 1.

'Boe above, footnotes to p 85 If this were a verbains quotation from Lankkacher Sätza, as Varghbhagan asserta, the fact would aupport Skoherbsky's view for the Lankkacher as explanation work (Thearhest Chinese version is stated to have been made in 448 AD I it would appear that this version does not include the concluding section in which there is a prophery of Barbarain kings following the Grapka-Ownoult referring be earlier than 443. There is a reference to Aksopida-but this too is in the concluding section x.).

"The sceptical position is always suicidal, so that it can always be met by the argumentum ad hominem.

"The argument here mores to a new phase, with the realisation that the scopit is destrying not only the objects of knowledge but knowledge itself And it seems to be in this connection-in support of the densal of the reality of the instruments of knowledge, the prevadege. "Lets the asslady of dreams was first employed. For dreams are not only without real objects, but also disalistic moments in this coopied, argument was not ongling employed prove the unreality of the external world (the idealist's position)-that had already been done by the disalistic 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 '' (pramāņānutpatty-utpattibhyām IV-ii-30. '' By both alternatives—impossibility of proofs or possibility of proofs ''--the opponent's position is 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 mirage². The Nyāya Sūtra (33) says that 'this is not established, because there is no reason to prove it : which Vätsyäyana 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

argument into complete sceptizium (seres/skystätädäd). That is why Nighyma uses it Boti of corres the dream-argument lends tateli to the draproof of the reality of arternal objects, and the idealiti scapied it to thus use. That is why the dream-argument is found it has alkeality work such as basily caytanetic argument has a state of the state of the state has a state of the bons of two of no the found mean of by Nigaryman in the Middy and State. State state of the state state of the state state of the state state of the state of the

¹Perhaps Vätayäyana refers here to the sernäststöddin school of Baudda philosophy-⁻⁻ there is then nothing to choose between you fänyavädins and your extreme opposites in the Bauddha schools, who maintain that everything exists ".

*svapnavisayäbhimänavad ayam pramänaprameyäbhimänah (sütra 81). mäyägandharvanagaramygatyspikävad vä (sütra 82).

Vidyābhūsaņa (HIL, p 46) regards this as an echo of Mādķy. Sūtra, VII, 34 —

yathā māyā yathā svapno gandharvanagaram yathā,

tathotpädas tathā sthānam tathā bhanga udāhrtsm.

Thus is the conclusing couplet of the section in which Nightymas applies the destructive dialactic to the thresold about on or organishor, rebustence and destruction (uspidd-withit-bodge) Is answers the objection—"If these notions is meaningles, which did the Dividds mean by using them in his Seching?" used by the opponent in the Nyige Store, the couplet still has in Nightyma the same general function of rounding did the seching dialactics. 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 (bhāvenābhāvah samarthyate).

The other objection urged in the Nyāya Sūtra against the dream-argument is that "the concet 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 Ave a basis in reality. And it is only with reference to the real basis or originals of dreams (*dšraga*, *pradhāna*) that the waking man pronounces his dreams uncel.

Comparing the treatment of the dream-argument in Sābarabhāşya with its treatment in the Nyāyabhāşya at is clear that the idealistic aspect of that argument is prominent in Sabara-dreams are illusory because they are undoubtedly first employed. Vätsyäyana, 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 remains for him a time adjunct of the main line of thought-wix, that analysis fails to find reality in the object. In the absence of the technical

[&]quot;Vikytysca's use of the lang-sumle here is not clear, nor is the scaling certain. We want him to say that the light of runt must be present in one uses if was to argue its sheence in the other case. He says that you can oak y says from ono approhenous to sheence if the thing is not absent in both case-grated presides apphilded rispergifications is "in a was y 'colour is hot apprehended because the langs is absent ''. The meaning isparsely is that we can say this only because the 'amp i' present in other cases when we see the colour

terms of the vijnānavāda in Sabara's account, it would be wrong' to suppose that Sabara is polemising against the developed vinanavada. But this much may be said that he seems to be dealing with a type of sūnyavāda which is different from that of Nagariuna i.e., from that type with which the Nuāvasūtra and Nuāvabhāsua deal : he seems to deal with a sūnuavāda which stresses the dream-argument in such a way as to bring out its idealuatic implications and to make it fundamental.

C. THIRD DIFFICULTY

SECTION 5. DISTINCTION BETWEEN THOUGHT AND OBJECT

The third part of the defence of perception in Sabara's Bhāsua, a translation of which is now given. attacks a view that ideas themselves are in some sense ' void '-empty, or nothing (sūnya). In one sense it has already been shown that ideas are 'empty', seeing that it has been shown that their supposed objects are non-existent. But the argument is now carried a step

- 28. nābhāva upalabdeh.
- 29 vaidharmyäc og na svapnädsvat,
- 30. na bhāvo ' nupalabdeh.
- kşanıkatvāc ca,
 sarvathānupapattes ca.

^{&#}x27;Jacobi's strongest point against the view of Stcherbatsky that the early stira's and bhaya's polemise against the syndinaseda, is the absence from them of the peculiar phraseology of syndian and diagasyndian. Jacobi finds in this passage of Sabara's bhaya a commentary on Ved.

The cost finds in this passage of Sahara's öhägyä a commonitary on Yed. The observe of the same set of the s here quoted by Sabara is one Bodhäyana author of a comment on Vedanta The Ved S. passage runs .--

[&]quot;The objects of cognition are not non-entities, because we actually per-ceive external objects Nor is our cognition similar to dreams, because there is a difference between waking-cognition and dream-cognition. The idea cannot be the object because it is not the idea which forms the object of our apprelemanon Also because ideas are momentary. And (the opponent's posi-tion is absurd) because it is altogether impossible " (This follows Jacobi's (nterpretation)

further, with the assertion that the 'idea' cannot be distinguished from the 'object ' of the idea'.

Why not say that it is the 'idea' that we perceive, in place of importing a superfluous ' object '?-Sabara replies' 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) perceined³

And, thought being for the Bauddha a series of instantaneous ideas, the supposed self-conscious (samvedua) nature of thought is as inconceivable as the Naiyāvika ' inner sense ' account of the perceptibility 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 interred thence. The idea is designated by the name of the object' of which it is the idea; and cannot be otherwise designated (avyapadesva) : and this indesignableness proves that the idea as such is not *perceived*. (But it does not prove that the idea does not exist.) Sabara' savs :--

This passage then, like that in Sabara, seems to argue against a type of scepticism in which an idealistic moment had become a relatively important and independent part of the argument. The last suits should perhaps be rendered. " and the assertion of non-existence in toto (i e both of object and of idea) is absurd because impossible

It is however possible that the Nudua and Vedanta are attacking the

same view, but make it look different by difference of selection and comphasis. ¹It is this assertion which, according to Vätsyäyana, is intended to be met by the word argapadelys in NS I 1. 4 See below

^{*}Luke Hylas (in Berkeley's Dialogues) and G. E Moore in his *Refutation of Idealism '

[&]quot;Thus is a point of difference between the Nyäya and the Mimärksä "The Nyäya tesches that cognition is a 'quality' of the soul, perceived like any other quality by contact with the sense-organ, the sense-organ in this perfocular case being the manas or internal sense. The Mimärkeska denies this 'inner sense ' theory, and says that the existence of apprehension is unforred.

[&]quot;As Vätsyäyana explains the object is called 'ghata', and the knowledge of it (ghatajhāna) can only be referred to by the same name with an added 'sta', i.e. the same name 'in inverted commas' To designate the idea of a pot, we say " the idea ' pot ".

[&]quot;Sabara bhasya p. 9 l. 11 to p. 10 1 10.

"But the idea is void-nothing. How so ! Because we do not find any difference of presentational form (ākāra) between the thing and the cognition of it. It is our idea that is the object of perception (pratuaksā ca no buddhih), 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 (nirākāra); while the external thing has form (ākāravat), since it is perceived as connected with external space. For perceptual cognition has the thing for its object (arthavisava hi pratuaksabuddsh), and has not another thought for its object (na buddhyantaravısayā)1. For thought is momentary. instantaneous $(ksan:ka)^2$, 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 makes known 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. Simultaneousness (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 (vet) 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 (ifiato py arthah san 'aifiata' ity ucyate). Nor can we apprehend the precise character (rupa) of the thought without designating the thing (which is the object of the thought (na ca arthavyapadesam antarena buddheh rüpopalambhanam). Therefore thought cannot

^{&#}x27;cp. Ved. S. II. 11. 30 na bhāvo 'nupalabdheh.

^{*}cp. Ved. S II. 1. 31 kranskatodo ca.

be designated (*na vyapadešyā buddhi*h)¹; and what cannot be designated is not the object of perception³. 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 non such thing as cognition, this would not establish the non-existence of the thing, which is the object of perception [arthazya pratyaksays astath and (ss. abhācāb)]. 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 (anākāram eva) while the thing, which we apprehend as the object of perception (pratyaksam evācayachāmab) has shape or form (sākārā). Therefore thought has the thing are is support, i.e. depends on things (arthâlambanāh pratyayah). Moreover the thought of a cloth has a cause restricted

With this of avyapadesyam in NS I 1 4, and particularly Vätayäyana's exposition, p 12 1 3 to p 14 1 6 The passages in Sabara and Vätsyäyana explain each other.

*Reading the emendation suggested by the B I adm editor, Maheśa Candra Nyāyaratna, in a footnote to p 10, viz, avyapadséyam ca na pratyakgam, in place of the avyapadséyam ca nāpratyak-am of the text This emendation is necessary, as the next sentence shows

The emendation suggested by Jacobi in JAOS sixi p 90 n. tarmän nöoyapadelyd buddhin, avyapadelyam ca näma praiyaktam in questionable from the point of view of textual criticism and gives a measurg inconsistent both with the present passage and with the parallel passage in Vätsyäyana's *Bhdyu*, p 12 8 ft

We doubt Jacobs desired to brang Sabara mto line with NS 1 i 4 But siltough the statement: asynghetegoms are protypikers, Sabara is gott to conflict with the NS asynghetegoms mergatekers, Sabara is gott to conflict with the NS asynghetegoms the game seens at first and the processing the same thing and any protocol of the same set o

to the case (i.e. only arises) when threads are present (niydanimitiah tantuseevopädiyamänesu patapratyagah): if it were not so, the idea of a jar would sometimes occur, in the case of a man with senses unimpaired, 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 pratyagah). And therefore perception is not an erroneous process (na nyabhicarat pratyaksam)."

The passage in which Vätsyäyana explains the word avyapadešyam' in NS I. i 4 is closely parallel to the third part of Sabara's argument.

What Vätsväyana 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 golour--rignam iti janite',—and that the latter is the apprehension of taste —'rasa iti janite'?

The words 'rūpa', 'rasa', denominate the object of the perceptions (*visayanāmaāheya*), and not the perceptions as such. And yet thereby (*tena—visayanāmaāheyena*) the perceptions are in fact expressed (*vyapaātsjate*).

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

[&]quot;Viscaspani Maira does volence to the Seira and Bhärge in his anizely to fahre on the sariy subtronies of the Neighus school "Triboasa's doctime of two kinds of perception-perception without qualifications (nersider as methods) and the series of the series of the series of the later, and series to have arise in answer to the Shöhlan two of perception later, and series to have arise in answer to the Shöhlan two of perception later, and series to have arise in answer to the Shöhlan two of perception later, and series the same the same to the Shöhlan two of perception by the understanding. This the Bauddan interpretation of espagedefs to build the same and the same that the same the same " in would seen wore a true conclusion of Viscophyna" is would seen Viscophynas's new (which I behave represents the probable usating of the Viscophyna's tool from the Baddan van ed from Viscophia's.

The difficulty is to see just how this conclusion is justified by these premises : a difficulty due to the fact that we do not know the precise nature of the doctrine which Vätsyäyana here criticuses¹.

In what sense can it be held that the perception is s^* *verbal* on the ground that you can only express it $(ryapadis)^{b}$ by using the *word* which is the name of the object perceived ?

—"The position seems intelligible. As expounded by Vätsyäyana, it starts out from the assertion that wherever there is a distinct thing, there is a distinct word for it—yavad artham cai admadheyasabadh—: 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 thind distinct entity "cognition"³.

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

¹VEccepti appears to connect it with the philosophical grammarians, and quotes in this connection two passages from Bharthan's Väkyepadiya, I. 194 and I. 195 (NVT p. 83, and the editor's list of identified quotations, to which I over these references)

^{*}Of acyapadeiya in NS I. 1. 4 See next note *This suggeste J. B Watson's 'behaviorist' psychology

thing has come into play (anupayukte sabdarthasambandhe): and even after the naming has taken place the same remains true—the cognitum remains distinct from the names. This is what the sûtrakâra asserts by the word avgapadešya,—i.e. distinct from names¹. When it is necessary to speak of the cognitions as such—as it is for practocal convenience (vgandhāra)—we can of course inducate what particular cognition we refer to : the 'inducation' (vgapadeša) being made by the name of the object followed (in Sanskrit) by the particle it. The idea is not the object : but it can be indicated as being of the object.

SECTION 6 PERCEPTION AND DOUBT

Vätsyäsna interprets the word ryacasäydämaka in the definition 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 the has in the form 'this is either smoke or dust', is 'produced by the contact of organ and object (*indrigithasaminkarşotpaman*), it should be included under the head of perception. —It is with reference to this possible wrong view that the word *vyacasäyätmaka*, 'amounting to conviction' is inserted in the definition ''. Nor can it be said that it is often areas from the sense-contact. "For it is on having

" mind ' is a symbol for ' monas ' not a translation.

Viscoir JAOS TERL p. 20, focutor, renders the terms by 'not netmatry connected with word', which is as close a rendering as it feasible. But I think he is masken in saying that its meaning is more sourcestly appresed in Dirolagie's definition of pertupted by kaloratopode's for this multiss the equation argogodefys = wrwakspike, which seems to me ister-(σ_i PBh p. 197 II. 1510. Predistingtia performs NS II. A in white passage, and repeats the word argogodefys in his paraghrase Be p. 116, n. 9.

actual visual impression of the object that the man has the uncertain apprehension (na avadhāravati) 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 failure to have certain cognition with the 'mind', which is conditioned by the failure of the senses to give certain apprehension, being a state of mere hesitation (vimarsamatram) with reference to the precise character of the object (visesāpeksam) - 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 (vuavasāva) 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 (anuvuavasāva) arises "

¹eystastiga and surrystastiga seem to be used here in the technical sense common in the later school, the former being the cognition itself-ghafo 'yam, this is a pot-, the latter being the swareness of the cognitionphatam sham janam, I sprehend the pot

A blind man could not have accerness of perception of colour-signs dest photom-backasses he lacks the organ for the perception of colour. Similarly the could not even have a doublind apprehension. of the colour of a hing, nor could be be wave of any such doublind apprehension. (There is no reason perhaps why envergenzation allowed not be applied to average a doublind apprehension. But a suchied, it seems that he would naturally combe mergenzation to the waverage of a top [1, o certan] organization and r.)

The exclusion of doubl from perception is in line with the exclusion of error from perception. The montry is to make perception a 'permedia' perception a 'perception a' perception a' perception a' set of the applies of perceptional a' set on infecting linevielge. A fullecour reason is not a reason, but only an appearance of reason (Artholders). But entry perceptional a the entry perceptional as the entry perceptional as the entry perception a' perceptional a set of the perception a' perception a term perception as the entry perception as the entry perception as the perception as the entry perception as the entry perception as the entry perception as the entry perception as the perception as the perception of the entry perception and entry perception and entry perception and entry perception and entry perception as the perception at the entry perception as the perception at the entry perception as the perception at the perception at the entry perception at the perceptio

SECTION 7. THE 'CONTACT' IN PERCEPTION

Perception is defined in the Nuāva Sūtra as arising from contact between object and sense-organ. Vätsvävana points out two difficulties involved 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 (indriva) given in Nyāya, Sūtra 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-bhautikani indrivani. (ii) are each confined to a special class of objects - nivatavisauani, (111) are organs of perception only so far as they are themselves endowed with the qualities which they apprehend1. Mind2, 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

³In short, it marks the point at which the 'like grasps like' theory of perception goes bankrupt. Mind which grasps conscious states usised not endowed with consciousness. See Fib. p. 89 1, 18,

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[&]quot;The principle of like grapping like underlies this primitive psychology or physicology of the sense-organs. The hearing-organ grappet point because it is made of "either", and sound is the pseular property of eitherthe organ of small is made of acase, of which againty is the pseular property the isatis-organ is made of water, of which againty is the proprises in the varial-organ is made of water, of which againty is the proprises in the varial-organ of light-ublicance, itser is the isolito-organ, of any its which the quality of ionch as proper Each, water, fire, an, elser are the five blicks', or "statis" [our other isolitonics of the added in the sense blicks', or "statis" [our other isolitonics of the distribution of the sense isoli, and the mind or immer organ—to make up the Nine Stubianotes which the *Variefselse* processing, as monhoused in 1973, 1, 6.

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'. as in fact they are not possible. And that it is a sense-organ is to be learned from another philosophical system⁹,-according to the accepted methodological principle³, that 'a view of others which is not rejected is accepted⁴.

The other difficulty raised by Vätsvävana 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

 ^{1}VS III 11. 1 argues that manas exists on the rather different ground that when there is contact of object, organ, and soil, knowledge conclumes arises but sometimes does not.—which implies a fourth factor. In both arguments manas stands for 'attention '

The argument from non-sum its net of cognitions and volitions is used in FS III. is 8 to prove that there is only one 'mind 'm each body and similarly in NS III is 59 VS VII is 28 teaches that means is atomic,—

Similarly in NS 111 1 09 78 711 1 20 teaches that manage is atomic— not silperracing like the soul, sumlarly NS 111, 11, 62 "The Valdenka Sütra. See preceding note for the sumlarity of the two systems in their doctions of menas. But I find no explicit statement in 178, any more than in NS, that menas is a sense-organ. The motive for

ma FS, any mass that m JS, that measure is a home-organ. The motive for calling measure sense-organ to doubt is that both systems clear systemical pro-cesses and states among the 'qualities' and a sense-organ is required for the perspinor. A superstantiation of the sense-organ is required for the perspinor. A superstantiation of the sense-organ is required for the perspinor. A superstantiation of the sense of the "permethesis both and maximized" is the name given to do do by four perspinitive both on Kan by a superstantiation of the sense to do by four perspinitive both on Kan by a superstantiation of the sense perspin of the sense of the sense of the sense of the sense monitories of the sense of the sense of the sense of the sense both of the sense of the sense of the sense of the sense both of the sense of the sense of the sense of the sense of perspinors of the sense both of the sense of perspinors are fast of the sense of the sense of the sense is a person of perspinor the m fast of the sense of th of perception is in fact implied in classing psychical states such as pleasure and pain among the objects of cognition -na sukhāds prameyam ed, mano rdstindrivdniaram. His point against the stira apparently is that it ought to have classed manas as an organ but failed to do so. "Either psychical states are not objects, or else mind is an additional organ").

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sūtra is not a formal statement of the full conditions of perception (etävat pratyakse käranam iti), but only of the special conditions (visistakāranavacanam); 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 .---bhidvamānasua pratyaksajftānasya nāyam bhidvata 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'. The truth seems to be that the sūtra had not vet systematised its doctrine of samnikarsa to the extent of explicitly recognising (what is implied in its position) that manas must form one of four factors in the 'contact'2. 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.

'See Vārtika ad loc Gangānātha Jhā follows one of these alternative explanations in his translation.

This notivewithy that VS III 1 18 could means in its enumeration of the factors of the romater. Then which extrand perception arrays, particularly the set of the romater of the romater

(The occurrence of manas in VS, ∇ in 18 proves nothing, since that stars is defining the apprehension of pleasure and pain, in which manas is concerred in its special i inner-sense i function).

And yet it is difficult to differentiate the two functions; and if we insert manas as a fourth factor into the formula of VS III. i. 18 atmendrivärthasamnikarsäd van nispaduate (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 atmendrivamanorthasamnikarsät 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 view that ideas are self-conscious (samredya)1, the Nyāya-Vaišesika school elaborated its doctrine of the perceptibility by the internal organ (manasapratuaksata) of cognitions and when at the same time the internal organ (i.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 Naivāvika 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' (anuvyavasāya). The latter was called in the later school mānasapratuaksa, perception by the internal organ the

¹For the Nyāya-Vatseņka polemic against this view see NE pp 90-93 (translated by Faddagon pp. 403-405). See also NK pp 96-97 (Faddagon, pp 406-409) for criticism of the Mimāsieka view that thought is inferred from the 'known-ness' (mätzis) of things.

For the difference between the Beuddha traw of cognition as settlessing and the Mireduska raws of it as scoprabids, the so Jia FSPM pp 90-38 The Basddha meant by sentesdys that the cognition can be its own object (kernes) Frabelkars replate that we are aware of our cognitions as subjective processes but not as objects-archivelfayates ht settles descended and the settle settlessing of general PSPM points. The settle settle settle settlessing and the settle settle settle settle settle settlessing and the settle settle settlessing and the settle settl

former is bahyendriyapratyaksa, perception by external organs.*

SECTION 8. TWO MOMENTS IN PERCEPTION AND VARIOUS MODES OF 'CONTACT'. PRASASTAPADA'S DOCTRINE

Up to this point in the exposition it has not been necessary to go beyond the doctrine of the Nuāva Sūtra as expounded by Vātsvāvana. The commentaries of Uddvotakara and Vācaspati Miśra have been ignored, for the reason that they presuppose a development in the doctrine of perception of which there seems to be no trace in the Nyāyabhāsya. This development in doctrine 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 is equally an object of perception in all aspects. It may well be that the categories of the Vaisesika system supplied the necessary instrument of analysis1; and it is in a Vaisesika work, the

^{*} Although Vátsyayāna finds himself compelled in this passage to admit that mense is the indruga in self-connecuoances he never developed explicitly the doctrine of menaes-pretiseks, and regulariy uses the phraseology of somedys and sometri. But his admission here, emphasised by Duhnägs, became the source of the doctrine of 'inner sense'.

Bhāşya of Prasastapāda, that the earliest statement is to be found of the two doctrines which subsequently became fundamental in the Naiydyika theory of perception. The section on perception in Prasastapāda's Bhāşya forms in fact the basic text for this phase of the doctrine of perception'.

the same direction is to be found in *HIL*, stof, where Dimlags as issued to quote an espinantom of the *Fastepske Stirn* on perception,—the arplanation corresponding closely with Prefastapids's words Aganu, Dimlags's states on the doctrine of the nurressi (demlagsic) cited in the 5DS (Chapter on Beuddhars-p 21 of Cowell and Gough's trans) is directed aganus teaching states with the factor of the nurressi (demlagsic) (the demla demla

"The doctrime of series/seks and murrikdyska (wally traceable to Fraststadda) as attributed by Vasegati Mira to Triccans (MYT p 87, last two lness astrukted by Vasegati Mira to Triccans (MYT p 87, last two lness astrukted by Triccansparentsfastgatugemeasureski) to the TH doctor attributed by the series of th

É0%

Translation of Prasastapāda's account' of perception.

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

(i) 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-atomic magnitude, provided that they possess parts, and show manifest colour⁴, such perception arising from a contact involving four factors",-provided that there

¹PBh. pp. 186-188. The passage presents seriors difficulties. Faddegon gives an analysis of the passage (at p 294), but does not translate it he translates the polemical parts of Bridhars's comment at p. 442. See also Ganginshiha Jh's's translation in the Payoit

"The tertual reaching as: makety arakadrosposticodbiliteripaperdisconstylegoscientiacydd. Thus grees no sense, and must be corrupt. But have an odoubi as to iko meaning (i) Atomic substances (manas, and the stans of earth, ang free, and varenty as ungerospikel. Earth-composites, finsthough of more than atomic assessment of the state of the state though of more than atomic assessment of the state of the state of the state of the scale. (iii) A substance which satisfies these two conductors as ar But thus also is imperceptible in wirthes of the currows third conductors is ar. The thus also is imperceptible in wirthes of the state of these two conductors is ar and it manted to color ': and the Varietyske hold that's subtime quality which forms is populate providy (in state) of the prosthilly of the state state is possessies which forms or '.

"The four factors are object, external organ, mind, and soul (mind ' is a misleding rendering of mense, in spite of stymological identity. But the alternative mentang ' internal organ ' suggests the function of mense are organ of unner sense. In the present context mense has its other meaningthe organ of stemation.)

That both Kumkris and Ydsapati Main were sware that the doctmon on wrokajokajsking darvest from Prasisapäde (or from a doctmon summar to hu) m perhaps indicated by the fact that they both me Prasissipad a term 1. T. (risepse is botharge yourddocommentricated), and MYT p. 58 1. 13 (disconnegliant) and the doctmonting of the symphony of the symphony of 1. (4) is the force of including minutive symphonson.)

is also present the totality of conditions constituted by 'merit' and so forth'.

Two moments in Perception—(i) intuition of svarūpa, (ii) perception of subjects as possessing qualifications.

"Perception is (at first) bare intuition of unrelated things". (But) from a contact of mind and soul which

'Isridhara explains by dharmādharmadikkālādi...' merit, demerit, space, tume, etc.'. Merit and demerit, as adrējā, constitute a man's 'fate', ad are the universai condition of experience as such

This is the crucial passage I adopt the variant scarupsionanmatriam pratyakeum in place of the single word scarupsionanamätram (without pratyakeum) of the text. The text puts a fullstop after scarupdiocanamätram, had no stop before it, connecting it with the preceding sentence

Where does this doctring of bars intuition come from? What are its objects. While precisely is the meaning of careful-series-likely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-anticely-antic

As to the meaning of seerSps the term implies nothing about the character of the objects mixited, but merely means that the object, whatever it be, as intuited 'n staeff', to not as related in any way to anything else. SeerupHocans corresponds to the 'ample apprehension' of our schools

It is difficult to determine the application of the fourfold contact spoken of nn has spaticate of I tenson to be stated as a general condition the the contact, and set Pressnapping to all case of perception, and y we of these factors are involved in the contact, spatial and 'mail' represents the norms to which the contact ordinarily contact, and 'mail' represents the norms to which the contact ordinarily contact, and 'mail' represents the norms to which the contact ordinarily contact, and 'mail' represents the norms to which the contact ordinarily contact, and 'mail' represents the norm to which the contact ordinarily contact, and the state of t

bears on the five qualifications (*visesana*), namely, genus, species, substance, quality, and movement, there arises perception in the forms¹—

The Five Predicables

- (1) this substance exists
- (2) this substance is earth-substance .
- (3) the cow has horns
- (4) the cow is white
- (5) the cow goes.

logic as opposed to the visesanāpeksā, relation to qualifications, which constitutes the 'judgment'.

As to the source of this doctrime of the searcipilocanamittre, have intrinsion of essences, it is possible that the view of perception as contact with bare 'that' (scalakapan) was shready courcent, the consequence being that all qualifications (scalasapan) of the 'that' are no longer given in perception, but mere figurents of imagrantion (kalpenk).

Praisstappia may be replying to such a view in his doctrine that perception implies, so can connect in it, as initiation of the as yet urrelated characters (searings), which can thus ho factors in the perceptial judgment without incorring the condemnation of being imaginative fictions. The selfseque's are not more kalpand's because their searings has been given in the 'alcocare' moment of perception.

The row m opportion to which Prefactspils would then be putting forward its advantants in a binary set of the perception as kalpensäpsyka Presistspils interprets the word asymptotic at-bits as hyperbilling and the perception of the perception of the hyperbilling of the perception of the perception of the activities, the character which are then manied and referred to a subject approximation is contact, not with series explained of the perception perception is contact, not with series explained of the perception perception is contact, not with series explained becoming a predication the producible being in fact follow.

The might seem to support the rare that Pristanpids followed bonday, and that has support and the principal recent founday of the second second second second second second for the second second second second second second second for the second sec

¹The five 'kalpend's' as stated by Väcaspata Misra are not quite the same. See NVT p 102 1. 2 where they are given as name; class, quality, (ii) Perception 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 percived (*niyatardiniyanimitam*), and arises from a contact of the organ with the thing in which the quality resides (*svafarqusaminikarqii*)', as the result of the inherence of the quality in many parts (*anekadravyasamasqiqli*), and of the distinctive character belonging to the quality concerned (*scaqatavieşati*)².

act, substance, e.g. It is Dittha it is a cow, it is white he is a cook he has a stick --- Vidyābhūsaņa (HIL p 129 last hne of footnotes) says that "the ides of genus (tati), quality (guna), action (kripa), and name (nama) was derived from the Mahabhasya of Patafiali " It seems likely that the notion was originally derived from the grammarian's classification of words Dinna ga's argument appears to have been that words can never express the unique character which belongs to perception-the object of which is svalaksena, sus genera: whereas words by their very nature as conventions for communication can only deal with common characters (sāmānvalaksana) To say that perception is apprehension stripped of words (avyapadesys) is to say that it is apprehension strapped of all the (illusory) common characters which the different kinds of words impose upon it . that is, it amounts to saying that perception is apprehension kalpanapodha. Perception is of the thing in its uniqueness (rouripatab), and the sourapa, the thing in its uniqueness, is necessarily covaradesiya, inexpressible. That means that nothing can truly be predicated of it. All predicables are fictions imposed upon reality They are not genuine qualifications (viscons) of the real. See HIL p 277 for an account of Dinnaga's attitude.

"The semipuktasamardya of later terminology The red thing is related by conjunction (samiyoga) to the visual argan, and the quality-red-is in the thing by relation of inherence (samardya). Therefore the relation of red to the visual organ is inherence.

*NK p. 194 1 4 anekeşv avayaveşu samavetati dravyam anekadravyam tatra samavöyöt. The quality of a single atom would not be perceptible

'fold, secate entrop rispitation, rate restiteon, etc. — (asset] I have followed time. But it would give beiter enases to interpret 'as a result of the special property with which the organ is endowed ".—It would be servard to refer see. In secate to the organ when see in self-rays refers to the quality perceived but secates may be taken as a unit-wordproperse -so that thu difficulty will not area.

(b) Sound

(3 factors)

"The perception of sound arises from a contact which involves only three factors (*trayasamnikarşāt*), for sound resides in the organ of hearing itself and is apprehended through the organ alone (*tenates*).

(c) Attributes perceptible by sight and touch

(4 factors)

"Number, extension, separateness, conjunction and disjunction, nearness and farness, viscidity, fluidity, impulse (*vega*), and movement³ 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-

"Without the aid of a (conjunct) object. See last note.

"These are what we should call-in Locke's terminology-primary qualities. But they are not all 'qualities' (guves) on the Indian view : for the last one, movement, belongs to the category so-named (kersea).

[&]quot;The three factors are noti, means, and organ of hearing The orths, or thing (other than the sense-organ) much the quality persured readles, disappears, because there is no contact (senseque) between the sensing built is portion of each within a numericate contact with the resonant body so that this cannot be a case of assignificance significance of the distribution of the sense of assignificance of the sense of the neosant body so that this cannot be a case of assignificance significance of the distribution of the sense of assignificance of the sense sound (displetion) at all. Sound propagates itself in the other as a seconsion of sounds, which may be imagined in a sense of the wave-industrian (displetion) at all. Sound propagates itself in the other as a seconsion of sounds, which may be imagined is resembling either wave-industrian (displetion) at all. Sound propagates itself in the other as a seconsion of sounds of significant of the second is produced by conjunction or disjunction of bodies (stablege, stemporgsidelike). The final sound as that inherent in the portion of ether which forms the organ of bearing where are only there, instead of tow, factors in the second server, and the second there, instead of tow, factors in the second here.

tion (samyoga) of two factors¹ 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 subtrates, are apprehended by the organs which apprehended the substrates (upialabhydähärasamavetänäm därayaqrahakair indiriyair qrahanam)."

But of course neuker vaw is clear. In the first place the function played by much is ambgrouse, hot functions—tast of organ of steenion—being confused or identified in the second place there as a constant as to be part played by such that the second place is the state of the bioverlage, or but hat matching the state of the stat

"Two rubries are green for the perception of universals in the Tarebabed, r. . . () assignificance enclosure and an enclosure of the statistican m the conjourned '. The point is compared with the eye colour inheres in the point and the universal 'colour' inheres in the spatial's colour. The statistican (b) consertaisensesige: if of the universal 'cound' inheres in the quality cound, which again inheres in the organ of hermal, (c) There are yet a third case, that of perceiving the substances as discharce, but this comparison of which will be a substances of substance, the substance, and exception of green and the organ of hermals is the substance, and "provide and the substances in the substance, and e quality are an of memory interactions enders in the organ of hermal *Directions* is (of herman and the cound).

This account of the perception of the universal as a distinct form of perception, together with the notion of a universal as something which interes in subtaince; quality, and action or movement, implies an ultrarealistic mode of thought.

¹⁷The later rubrn for this form of contact a sempeticesenserge, mberence in the compand (the paythas) 'qualities ' being inderest in the sool, and the soul being in conjunction with the internal organ. So that the rubrn for inner sense perception is identical with the rubre for the external sense parception of qualities (other than sound) and of movement. This is obviously objectionable, and Frankasski's charaftentum by the the later elsestication, that it makes maneresse perception very different from any form of external perception.

Such is perception in the case of ourselves and beings like us¹."

Note on the Perception of Movement

Sridhara polemises against an opponent who admits the reality of movement but denies its 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 conjunctions 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 former set of disjunctions and conjunctions. the 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 (uadadhikaranam kāruam, tadadhikaranam kāranam). 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 (na cedam purusa iva cetanam vatoravojanānurodhād pravartate). When

[&]quot;This closes Prafastapada's account of the varieties of normal perception, which thus omits the sixth mode of contact recognized by Uddyotakars and all subsequent schoolmen-mamely, *widesparsivespables*.

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 (arthapatti)1. The opponent then shifts his position, saving that it is only changes of position in space (not relatively to this or that object) which proves movement (krivanumitihetu). Sridhara replies 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 (bhūgolaka). then he will find it difficult 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 ravs' 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 nowadars admits that the appearance of motion is a speci-

[&]quot;This is an unaswerable argumentum ad homesen. The opponent says that the monkey movement is known by semesfac-wholh means demonstrative specific the server premises which are supposed to 'demostrate' that the monkey mover, would also 'demonstrate' that the tree moves: and the opponent is not free to refuse to draw a conclusion which as 'demonstrate' by his premises. For the conclusion of a demonstration so this a hypothesus, the force of which depends on its being the only supportion available.

[&]quot;vsyadvitatilokanushazubhägasamuogaprazāha Faddegon renders " the series of conjunctants and dayunctions with the multitude of light-beams expanded m physical space ". The difficulty suggests itself that the ' light beams ' are not perceptible ordinazijy.

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 pramāya, as the instrument of a cognition which is avgubhicári. Probably the opponent had this in view when he asserted that movement is known inferentially. But Sridhars rightly suggests that unaided inference would point to mere relativity.—His argument would have been more interesting had it been directed against a relativits : but the opponent maintains an impossible position in asserting at once that movement is real, and yet not greven in perception.)

The Perception of Yogins.

(a) in the ecstatic condition. "In the case of Yogins, who are different from us, —if they are in the condition called 'gukta', the internal organ, favoured by the qualities resulting from yoga, gives them unerroneous intuition of the essence (aritatham svarapadarsianam) 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', —also of qualities, movements, universals, and differences

^{&#}x27;It will be seen that this supernatural perception of the yukkappare (the perception of the synkappare) is mercity reperformand fills as monovement gap in the Yaterska theory of knowledge. For it provides for the perception of the (for us) imperceptible calegory indexes is also the and imperceptible or substance-either, art. space, time, scal, senses also the atom. The Yaterska, it is true, repect Orable Telestonory as a separate Means of Cognition (granden), and so the meer fact that the Yater reports he muttim of these unperceptible mains could be the sade of celabilish ther reality and it is consistently manifased that these things are exhibited by microsofted at a Machagator (granden). The set is an Odvinas for whom it is not immendent, though not a separate means of proof, is at least a valuable surnhary to informance.

(b) in the with- drawn condition.	ence 'If again 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 <i>yoga</i> -generated qualities."
Perception as process (pramāna) and as resultant knowledge (pra- miti, phala). Pramāna	"In the case of perception, the instrument is the bare sensuous intuition of the unrelated essence (staripālocanamātram) pratyak- şam pramānam) of general and particular characters (sāmānya-
Prameya	risesesu) ¹ . The objects are

The monovenemes of making time and space imperceptible as mutigated between by treating the relations founded in times and space as qualties (space) of thing—compution and disjunction, mariness and farmess, being for Indian large,-meany the relations of whole to pert, of quality and movement to substance, and of the universal (similary of indexects) (memory). The 'relation of substances to such other, computions and disjunction morements, which constitute the senare to sagary of indexects. (memory, indexects, The 'relation of substances to such other, computions and disjunction substances-means the senare to sagary of indexects. (The 'related relations' index of the substances the substances themselves as perceptible. But the imperceptible to far as the substances themselves a disability for a review of more physical relation which refines to disable the substances index of particulars in a suggregate of qualities of the universal into as aggregate of particulars'

'sômônyaouses here is difficult But this much is quite clear, that the term does not refer to the category essess for this is not perceptible at all

We are here concerned, not with what may be called categorosed perception, but with the numple approximations or a stuff 'out of which estigations perception arases that is, with the objects of unstallarlashed perceptionmerskapska perceptions. And the objects of unstallarlashed perceptionmarkable approximation are here said to be administrations of "followed" and approximate of the object of unstallarlashed in the object of approximation of the object of unstallarlashed in the object of approximation of the object of unstallarlashed in the object of as yets installarlashed object of unstallarlashed in the object of as yets installarlashed object of unstallarlashed object in as yets installarlashed of 'unstallarlashed's unstallarlashed of 'unstallarshed 'unstallarlashed's object of the object in the object in as yets installarlashed 'unstallarlashed's maphes exclusion from the categories, substance and so on¹.

Pramātŗ

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

Pramiti

The instrument in the production of 'simple apprehension'. 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)' bare sensuous intuition' (alocanamatram pratyakaam pramatnam). Of this there is nothing else as a further instrument (asmin nänyat pramäpäntaram ast), because it has not the character of a resultant (aphalaräpatrat).

others and there is as yet no question of 'others' in an intuition of unveilated characters. Compare Jhã's PSPM p. 158, where the account given of Prabhäkar's new of the object of nurukalpaks fråns appears to correspond with Praskatapäda's new. See below p. 130 n. 8 ad fm.

'Srijhara says ' the four categories, substance etc.', which means dravya, guna, karma, and sāmānya.

"Whindever reading be adopted, the sense would seem to be 'undifferentiated perception 10. myrekafaeks affans, aimple spyrehension of unrelated character without distinction as qualified and qualification under the rubro of the 'Five Fredicables'. But see next note, ad far.

"for libra explants discuss as a noun of matrument here-discrete renety discusse— that whereas y is minimicil (WK p 198, 193), and he interprets the passage to mean that the matrument of the bars intuition is the onlicet beyone same-ergen and object; its contact blag if this whereas the onlicet beyone same-ergen and object; its contact blag if this whereas pairs and the same ergen and the online is the same ergen and and particular (unrelationism) and any structure of general and particular (unrelationism) and the same ergen and the particular of the same given may be same, that it is not a resultant of pressure apprehermon. It is hardere said to have nothing else-i.e., no other cognition—as the information is production. The cases as otherwise with not merely the have same-contact, but also the sample handle (despend) in pairings of the character which have main pairing in the same same of the same same contact, but also the same same same is an else for the same same contact, but also the simple apprehendion (despend) in the character which have not me califications (despend) in

Alternative state- ment of perception as process (pramā- ņa) and result (pra- miti, phala) Pramāņa Pramēya Pramētr Pramētr Pramīti	Alternatively (atha vā), the instrument in perception may be taken to be) the unerro- neous 'undesignated ' apprehen- sion' in respect of all the cata- gories' 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 result- ant cognition will be the recog- nition of things as either desir- able. undesignable.
	able, undesirable, or indiff- erent ³ ."

' differentiated perception '. For visitatüdna presupposes visetanajhänajudgment presupposes simple apprehension

It seems that Sridhara's interpretation of the passage is forced, especially in its explanation of discass as used in the present sentence. But the passage remains unintelligible A distinction appears to be made between serifysicosna and arbhaktam diocanam, which I cannot interpret

avstatham avyapadesyam ralanam This is a partial paraphrase of NS L 1 4, repeating the term avyapadesyam without explanation

sarvesu padärthesu catustayasumnikarsäd avitatham avyapadelyam usi radnam utpaduate, tat pratyaksam pramanam It seems clear from this that Prasastapäda did not understand avyapadesyam in the sense which Väcaspath Misra puts upon it, i.e. as the equivalent of nirvikalpakainana or of evarüpälocan amatra On the contrary he is equating it with savikalpakarflansknowledge of qualified objects ' in all the categories ' This is a resultant of aloosnamätra. But it can itself be the instrument of a further result - and when it is thus instrumental its further result is realisation of the practical bearings of the objects perceived. He is merely repeating what Väteyäyana had said undeed the present passage may be a reference to Vätsyäyana, NBh p. 10 II 1.2 alkesydikesiga praticiegyom ortish pratyakeam ortise tu asimikarjo jikanam od. yadd asimikarses, tadd jikanam promisish yadd jihanam tadda hanopddinopekedbuddhayab "Parception in the functioning of the several sense-organs in relation 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 risell is taken to constitute the functioning, then the resultant cognition will be ideas of the object as desirable, undesirable, or indifferent '

⁴Compare Jhš PSPM p 41 ad fm. p 42, where Prebhäkars is stated to draw a precusely similar distinction between two ways of regarding the promdue and the phala. The distinction became a commonplace of the later schools. But its philosophical significance is by no means clear.

SECTION 9 'SIMPLE APPREHENSION' AND COMPLEX PERCEPTION (NIRVIRALPAKA AND SAVIKALPAKA)

How can the *immediate* of Perception be *mediated* in a Percentual Judgment?

Dinnāga's characterisation of perception as ' stripned of characters'1-kalpanānodha-is taken by the schools as the text for the treatment of this topic . 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 'Nominalists' (sabdika)³

save that Dinnaga's definition is the object of Uddyotskars's criticism in the says and Dimaging South (HIL p 277, footnote) cites Dimaga's description of perception in Thetan as from Chap I of the Pramanagasamuccays, and asys that the Sanakrit equivalent is prairy desk and in pranapada han nama gitz digasamivutam

I have not met the second half, as here given, anywhere cited. The couplet cited in the Sarvadarsanasamgraha is later than Dinnaga, containing as it does the term nurvikalpaka It is perhaps from Dharmakirti. kalpandpodham abhrantam pratyakşam nırvıkalpakam vıkalpo vastunırbhäsäd asampädäd upaplavah (Chapter on the Bauddhas, ad fin.). The second line of the couplet is quoted by Bridhars NK p 190 l 18 (with visamvädäd in place of asamvädäd) The SDS, thid, goes on to quote another couplet as if fr m the same context -

arāhvam pastupramānām hi arahanam vad ito 'nvathā na tad pastu na tan mänam sabdalingendriyädijam

The meaning of the two couplets seems to be --- "Unqualified perception is stripped of characters and unerring qualification is an accretion, since it disagrees with the appear ance of the thing For the object (in perception) has the thing itself as the means by which it is validly cognised . apprehension in any other way than this (i.e. apprehension 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 translat.on p S3 is different)

"Vācaspata Miśra cites the Vākuapadāva as typical of this view (NVT p 88 1. 9) -

> na so 'sts pratvavo loke vah sabdānugamād rie anuviddham ieg jflanam sarvam sabdena gamyate.

" There is no thought known to experience which is without correspondence with a word the whole of knowledge is as it were pierced and threaded with words ".

^{&#}x27;How can you characterise the characteriess? This is the burden of Uddyotakara's criticism of Dinnaga, a criticism which, as Keth says (ILA p. 71), amounts to the rotort that "a consistent sensationaliam should be p. 71), amounts to the rotort that "a consistent sensationalism should be speechess, and therefore unable to grue the definition suggested". As Uddyotakara puts it, the theory is like a dumb man's dream—it cannot be communicated (NV P. 461 9 a gratipädakatön mäkaraspmasadram). NV p. 44 1 cites the phrase kalpandpodham, and NVT p. 102 1 1 NV p. 44 1 cites the phrase kalpandpodham, and NVT p. 102 1 1

who appear to have taught that words and thoughts are inseparable. It is against these 'nominalists' that Vātsvāvana's explanation of the word ' avyapadešya ' in the sūtra is supposed by the commentators to be directed. As against these nominalists', avyapadeśva asserts that there is a moment in perception separable from all use of language". It seems likely' that Difinaga 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 Sābdika's view that the thoughts through which we determine reality are inseparably connected with words; and, on the other hand, the Nawayika view that what is immediately given in perception is independent of the words by which we come to designate it. But if 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.

"It is illustrated by the experience of infants and dumb persons, e.g. by Kümarıla in the Slokavärtika (pratyakşa, 112) ----

astı hy Alocanajnānam prathamam nıroıkalpakam bālamükādıvıjnānasadīšam suddhavastujam

There is a primary intuitive apprehension, an unqualified perception, arising from the mere real,—like the apprehension of infants and the dumb ".

This couplet is quoted in the Tärkikarakşā, p 60, in this connection.

"See Vidyäbhüsana HIL p. 277, and footnote 1 on page 109 supra.

This same couplet is cited in the Tärkkärskä (n. fil) where the view is sacribed to the Sådvikas', and is said to amount to the sastrion that only perception with qualifications 'exist-..., there is no such thing as wrerkapkakräfas. The raw is those represented as the antithetical error to that of the Banddhas, who hold that only unqualified perception-myreikalpakajnära -is wahd.

¹¹ But when Vacagati is polemang against the ruw that the pure percept is drowed of all characters he grews another interpretation of argupedelys, as bang a possessive compound meaning 'having no support and so supported sympletic comes to mean increating the support and so support of the support of the support of the support and so support of the support of the support of the support and so support of the support of the support of the support and so support of the support of the support of the support and so support of the support of the support of the support and support of the support of the support of the support of the plants and support of the support of the support of the support and support of the support of the support of the support of the support and support of the support of the support of the support of the support and support of the support and support of the s

So that the Naiyāyika's description of the percept as not verbal (avyapadēšya, ašābā) becomes equivalent to describing it as free from those other determinations or qualifications—of class, quality, action, and attendant circumstances or accident'—which, through the use of words, we assign to the reality present to sense.

The Buddhist is represented^{*} as holding that only pure or unqualified perception (*nirrikalpaka*) 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 svalakaşaa^{*}, the unique moment of

'dranya, as one of the five riseganas or kalpanās (predicables), means some relation to another thing or substance, which serves, in virtue of this relation, to qualify the green thing as a stick qualifies a man who corress it, or horns qualify the cow which has them Attendant circumstance or socident is thus a fair rendering

account of the last har realization of the second second

The object of perception is the seafakeens. The realskeens is that through proximity to and remokeness from which differences in the cognitive spearances stress I is alone as ultimately real, since completency for action is the definition of real thing. Other objects are semistivelakeens.—work is the object of inference.

The Nydysbudgettid (p. 15 1 18) explanae . ream ardddfranaeth Ukrpant interiest scalakranam seature by ardddfranaeth ar a clattean arts simanyaeth ar yad arddhfranaft far pratyskagrdflagan "scalakrana means 'own unoge character or being." For a reality has as nunge being, and it has also a common character. The unique character is the object (grabya) m the case of perception ".

Dharmottars goes on to say that the object (russed) of a promoted is twofold : either the object of approhension (grakya) described by the phrase yaddkaram utpadyate-that in the 'form' of which knowledge srises (?) existence which alone is ultimately real (scalakganānogaryatirekānucidhāyıpratibhāsam³). All the 'preducables' (risiegaņa) or determinations of thought (risiegaņa), are untrue to reality (bhrānta), because they are not appearances born of the thing (ararthajapratibhāso risiapah); being appearances which do not conform to reality (nestananırındhipratibhāsa), their production

or the object of sequenticon, endewour, or activity (pröparijes, adhysensenge, de, prorpticenega p. 16 s (5), "engo ån präkningen, "mes adakjensesspå Prätyskingen änkände eng önstängen en og präkningen pröperiginge, humange stadiogene ankände eng önstängen en og präkningen pröperiginge, humange single moment but this cannot be the object of endewoor er achiverment,-mér präpenja of prevention in not the engle moment but the sense. The object of endewoor er adaktiver (sense) is an unraktiver on the other band, the object specification of the engle moment on the other band, the object specification of the engle moment but the sense of moments (which of course is unrakti). Els adds that in unference, an the other band, the object specification of the engle moment of the engle object of the engle of the engle moment but the sense of moments (which of course is unraktive) is an unraktive (sense). Her statkerne (realskapentendiossiphi) the stativer the supposed (realskapenten object of the object of the course of the engle moment of the sense of the engle moment of the engle moment of the sense of the engle moment.

Poussin (translation of the Sarvadaráanasamgraha chapter on the Bauddhas-Muscon, n s n, 1901, p 172, f.otnote 50) cites these passages, and concludes that scalakeana ekeana

As regards the unreality of the object of mforence c_i , the passage sched from Dhofage at NVT p 121 1 or or or years an emission sequence buddhydreddena dharmadharmabhdrean na bahbradasattean apskada "All this buseness of information can inferred things depends on the subject stirbute relation imposed by thought, and has no reference to the existence or non-existence of external things."

In what sense there can be nearness to or remoteness from a svalaksanse so defined remains obscure

(Jhā takes paricchedakam as a separate word 'definite', observing in a footnote that this implies validity)

The systamodam Buddhat had that cognitions are not perceived through more ense perception by mease, but are concleve concector of themastres. Area of course does not mean the coil or self-which the Buddhats rejected. The Screadringnessphere intere responsive-scanam [seasamediansm] as the fundamental doction of the Yopidors, i.e. synd media school. In this connection the school used the sum of the lampwanch, self-illumined, illuminates objects. You do not need another lamp to see your lamp by. being conditioned by ' psychical dispositions ' (vāsanādhīnajanma).

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 castumirbhāsād eisameādād upaplavah.—But is it not the fact that there is correspondence in actual practice (pravrītau sainodād)?—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 svalakṣaṇa and their own manifestations in consciousness, direct men's activities on the place where the svalakṣaṇa is-thus ensuring the 'correspondence' which is alleged'. The gleam of a precious stone is not the stone itself : but it enables us to get ti!

But unless the thought determination (*cikalpa*) is in contact with the thing (*vastu samspráat*), how could it impose itself as identical with the thing? Even a mirage has an objective ground !—The reply is that thought uses the percept as a vehicle (*protyakgarpsthabhāvi vikalpah*) and so, assuming the function of the instrument of knowledge, presents to us a thing that can be acted upon (*arthakryvjasmartham vastu säkgäkkaroti*), —otherwise the percon 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 vikalpäd asstung ven pravritib*).

¹NK p 190 l. 20 svalaksaņadeše purusam pravartayats samošdayatš

-But does not this amount to the admission that thought (nikalna) 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 pramanam, tatranisamnādipratītihetutvāt)?-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 is 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 momentary¹. 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 sity which belongs to them as absolutely distinct 'moments' of experience (anākalitaksanabhedasua atadvyāvrttavastumātrāpeksayā samvādah). We cannot sav 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' the object as determined by thought. and that the latter is like what is achieved by activity (yadršah ksanah pratyaksena grhyate, tadršo vikalpenādhyavasiyate, etc.)3. But even so the thought-determination (vikalna) will not be an independent means of

*The Buddhist admits resemblance (sādīfya) though he denies sāmānya.

"The question is (as we should put i)--what is the relation between the previous impression, the mere ides, and the subsequent impression? Not numerical identity-all are momentary, and the one has disappeared before the other begins to be. But a sort of likeness.

Are the distinction between the probage, on the one hand, and the adaption of the distinction of programments on the other land, see NEB programment of the second second second second second second only makes a two distinguishing the adaptions of the skiples from the programment second second second second second second second the seal destroys the unity of the object (respectively). Whereas of the programment of the Briddhard second second second second second second the seal destroys the unity of the object (respectively). The Second second the Briddhard second second

Vikalpa

knowledge, seeing that it only apprehends the already apprehended' (And what the Buddhist is arguing here is that *rikalpa* is not a *pramāna*). For it is by *gerception* 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 (likągaja) is an independent 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 (pramāmāntarāprāptasvalakṣangərāpakatayā pramāņam² (But this is another matter.)

-This position too is unsatisfactory, replies the Naiyäyike. For the momentary existent's 'exclusion from-what-is-other ' (anyavyärtt)—and the unreal common character illusorily imposed upon it in virtue of this negative character of excluding-what-is-other—³ is not grasped (grhyate) by perception, seeing that the object (grähya) of perception is characterised by the Bauddha as 'cause' (hetu), and unreal things (such as this illusorily imposed common character of being different-from-what-is-other) are devoid of all practical

*sealakşama in this compound cannot be taken as the object of pragakataya, because inference never grasps the sealaksama, its object being always sämänyalaksana—see Nyäyabindu p. 108 l. 18 anyat sämanyalaktanam so numänasya suayab.

always similar similar sectors of the sector of the sec

Like memory, which on the ground is refused the name of pressings in the Indian schools. The original appeness is the instrument of knowfedge-not the memory, which only repeats impeasion is and with indian is (in the Human school)--they only repeats impeasion i, and approximate in the school of the school of the school of the "scalakeen in this compound control be taken as the object of

efficacy (samastärthakriyärirahät),—(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 (paramärthasad); 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 grhitagrähitarät.)—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 ' (vikalpakalänanupätity 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 (pravritisamvādauogua), 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': and (2) because what has been conceived in thought is capable of being applied in action (adhyavasitaprāpanavoguatvāt).--And. if thought^{*} 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 inferential); and (2) because it occurs when organ and object are in contact.

^{&#}x27;dhārāvāhskabuddh: Faddegon explains · 'streamlike intellection, i.e. a series of intellections, all referring to one object, and ariang when our sitention remnams fixed upon a certain object for a certain time ''.

[&]quot;i.e., of course, sikelps in the special sense of 'the work of the understanding' in constituting the object (f 'qualified' perception (that is, of the perceptual judgment).

and does not occur otherwise (so that it must be regarded as indriyārthasamnikarşotpanna)¹.

But although these determinations of the percept are no less produced by the object (arthaja) than the pure or unqualified percept (*nirrikalpaka*), 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^{*} which names the qualification in question (*vicakakabdasmaraya*).—In that case, the Buddhust objects, ought not the thought-element in perception to be classed under memory^{*} as being generated by a memory and not by organ-and-object? for the part played by organ-and-object sechnesed (*vycantia*)

The importance here given to words is surprising. We might be prepared to admit this judgment-holding subject and predicate spart-is dependent on the use of words, is this judgment is insequrable from proposition. But judgment is perhaps a single beyond qualified perception', sessishipsing the second second second second second second second (debarguigation-taking and second second second second second maintained on this ground that all perception', such as sets, fields and the distribution of the difficulty of the second sec

'In which case it would not be a pramona. See note 1 p. 195 supra.

But it occurs when exother organ than that which would give the riskips in question as in contact with the object, e.g. I set the forgerst sandal The eye cannot see the fragrance though the fragrance as the beinging to a prevent object in no is free date but 'enne-bound and enne-sustained'. (Ward, Psychological Principle, p 186) Thin case is ready as a sensel under the name riskingkampferightert, in the later schools the example being that given above of the fragrant sandsi. (Ward, e.g. i, p. 186) "The maner in which the constituent elements of a proopt so combined differs materially from what is structly to be called be 'association of idea'. To realise this alignering with objects first how the sight of a suit of polished armon, for example, instantly etc.

by that of memory. The Naivāvika replies that auxiliary circumstances (sahakārin) 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 is eclipsed by auxiliary conditions of growth like earth and water !- But what is the assistance (upakāra) rendered by the memory of the word to the organ and object, that it should be called an " auxiliary 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 positively and negatively to the word-memory' The assistance rendered by the memory to the organ-and-object then is that, organ-and-object alone failing to produce their effect, they produce it when the memory of the word is present as an auxiliary circumstance. And the Buddhist's view that " characters which add nothing to the inherent nature of the thing itself would not be 'auxiliaries''' has already been rejected' when we

"The thought-determination occurs (other conditions being fulfilled) when organ and object are present, and does not occur when either is sheard Similarly it occurs (the other conditions being present) when the memory of the word is present, and does not occur when the memory is sheard

*seeršpätiskayönädhäyino na sahakärina ili cp NK p 73 l 25 yadi sahakärino bhäavyätiskaysin na yanayanti näpeksenityä akimetikerat ili vinkes ihe so-called azuliarize produce some additional characteri in the (principal) cause itself, they need not be taken into account, because they affect nothing ". See the following note

Bridhara's discussion which has been given above is not a very profitable piece of scholasticism. I give it for want of an earlier (and better) treatment of this topic.

"The Buddhast argument in support of the doctrine that all things are mominate, it is stated in the Sorredorfersomergride, chapter on the Bauddhas (the section corresponding to pp 16-30 of Googh's translation). It is also exponded in the pair of tracts by Astatashifts entitled Arguesbangaedda, which are included in Hars Prasad Statist's Siz Buddhast Nysge Tracts in Southert Close of these tracts sets out the positive and the other the negative argument.) The Namjénke reply is given by Sridhars NR pp. 78-26 (Tablegon calarises thin passage pp. 588-6, the hard translate by D84the Astasartipens or exposition of eval as the permanent subject of experience. had occasion to refute the doctrine of momentariness (ksanabhanga).

The Buddhai starts by identifying existence with causal efficacy (exclassing barries) If a their arguess the antimonse of the according of exclassing and the exclassing of the exclassing of the exclassing of the exclassion of exclassion of the exclassion of exclassion of the excla

It is at this stage in the discussion that the Nawawka brings in the notion of auxiliary conditions (sahakärin, which Poussin renders co-factour). nanu kramavat sahakäriläbhät sthäyinah (sic) attlänägatayoh kramena karanam (Poussin, for textual kramanam) upapadyate-" the successive production of past and future effects by the permanent entity is possible as the result of its getting auxiliaries in succession ". The Buddhist saks . does the auxiliary render any service (upakdra) to the entity or not? If not, we may disregard them, as, doing nothing, they cannot serve its purpose-nöpeksaniyas te, akurkeit kurvaläm tesäm tädärihyäyogat (this is the reading of the 1902 Bombay text, confirming Poussin's conjecture for tadatmyayogat). But if they do give any assistance, does the assistance remain something but it intry do give any assistance, does the samifance transmit comenting distance from backtury for our 1 is research sucching distance, then it has distance the activity for our 1 is research and the second state of the effect-annee the effect in present when the advantitious addistances (gen-tation of the second state of the second state of the second Pousan's rendering, p. 66, I cannot understand the clustor in the SDB of the joint (Googin mutricanistics in) Bot the Neigheyka holds that it is the permanent entity, in conjunction with the auxiliaries that produces the effect, and so it is from the nature of the thing (subhdua) that the effect armses. It will however be no easy matter for the permanent entity to grapple these 'adventitious additaments' to itself (as it must do to produce its effects)-since (by hypothesis) it does not depart from its own nature (re-bhāvasyānapāyāt). "It must not let its suxniaries go-it must hold them with a noose round their neck even as they are making off, in order to-

SECTION 10. THE DOCTBINE OF THE BEAL UNIVERSAL

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

produce the effect which is to be produced "(salakirgon as jabjäl, prityusk päisanään as ja ja pääne bäänö kärjän kärjän ja ja ja ja ja ja ja ja min teinen entity (hkäss) takkes to isail a darintet aditamanti (atsassa), zr is ha farma di henorras (späänö) randinet by his suzikary (sakaham) does ta ha farma di henorras (späänö) randinet by his suzikary (sakaham) does ta zintaines, af i does not, the so-called azuitary will not be an auriliary (Ykasspati constents humad) with this braf indication of the bihamma at this sphähadi. MYT, B 368 143).

The dilemma amounts to this A. If the editament leads to no trather additionate them (a) the effect multi space at any time at which the so-called causal entity might happen to add to itself the additament. You be additioned only when are related to assume (b) the addition distance and the state of the addition of the so-called causal entitythe eed, for example-might hen occuses at all, the effect beam groups of the so-distance of the so-called causal entitytion of the so-called causal and the so-called causal entitybet do the so-called causal and the so-called causal entitytion of the so-called causal and the so-called causal entityby the addition of the so-called causal and the sotilization of the so-called

In order to avoid the above horn of the dilemms you must adopt the second alternative But in doing so you fall into a many-faced regresses ad infinitum (bahumakhanozethā), thus :

If the additament is thus admitted to lead to further additaments, then (a) You have added to the seed which has the additament which makes it productive the further additament of relation to the auxiliaries. But as this further additament, like the former, can only be generated by the seed in relation to an auxiliary (tarmin apy upakirs piroanyäysna sahakärisäpsk-sasya bijasya janakatos), there will be an infinite regress of additaments arising in the seed after acquiring successive auxiliaries (sahakārisampāduabīregatatistavanavastha prathama). (b) You have added to the additament steelf, or service rendered, the further additament of relation to the causal entity (i e the service must be service to the seed - a qualification is thus added to 'service'). But this entails a second regress arising from the series of additaments-resident-in-additaments generated by the seed (bijd-dyangdidganuthdidapparamparat si devitganeoatha). The service to the seed is an addiament qualified by the further additament 'to the seed ': and this further additament will be qualified by the still further additament that it is an additament to the additament : and this still further additament is syst still further additament to the additament to the additament to the seed,—and so ad mfmitum. In order to relate x to a, the service to the seed, we must conceve x as having the further characteristic of y is of being related to a And then we must conceive y as having the further property s, symbolizing its relation to x and so on. Relatedness in fact means an infinite series of terms. [See McTaggart's Nature of Existence pp. 88-89 " every characteristic of a substance generates an infinite series of characteristics of that substance . . . If we start with an original relationship, the assertion that the universal (sāmānua) 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"". 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 Naiyāyika reply to the Bauddha as follows : "Thou ht which grasps objects as qualified (visistagrāhin) . . . 18 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 (vāstavatvāt)2".

there is the derivative quality of standing in that relationship, the derivative relationship between the substance and that quality, and so on again without end ". McTaggart however adds that these infinite series are not vicious, because it is not necessary to complete them in order to determine the mean-ing of the earlier terms] (c) In the same way the seed takes on another characteristic in virtue of its being related to the service rondered (esam apeksyamänenopakärena bijädau dharminy upakaräntaram ädheyam) and so there arises a third regress resulting from the series of additaments having as their substrate the additament to the seed imposed by the service rendered

as there substrate the solitancent to the seed imposed by the services readered (upskraddaepskylitaksjäärajätteksynoorsensent (Ttpikkeenskrad). Thus both herra of the dilemma (arsung from the first main hilernative, called by Vecasspati lõhnnospikefääldina 'i e e hui the addinon made by the auxiliaries as something durinet from the causal entity or primary case-onary, that the addition as not something durinet,—observaçededdebane (NYT p. 588 l. 21 and l. 24 uses both these terms). If the surpose readered by the auxiliary as not durinet from that to which it is readered them the latter, the supposed permanent causal entity plus the added guality. The original A has been repliced by an AB. But thus is not added guality. The original A has been repliced by an AB. But thus is not added guality.

momentary antecedent of the effect That is, the admission that the additament forms part of the supposed permanent entity when added to it, amounts to the admission that there is no permanent entity. Q E. D.-phalitam mamāpi manorathadrāmena " the tree of my desire has borne its fruit "

manday manorathadramena 'Lee tree of my desire ness ourse has how 'NK p 198 11 4-6 'NK p 198 11 17-18 esam prattir . . ristingardhini ne kalond, ristemanya risteraya ot atyok sembondharya ca syssechedya syssechedaka-bhdeasya edatostedi Tho reality of the 'relation' bere

To this the Bauddha replies : "Cognition which grasps the real thing is engendered from contact of the organ with the thing just so as the thing is,1 and does not proceed by first reflecting upon the thing (na ty arthe vicārya pravartate). Apprehension of a thing as qualified (nisistainana), on the other hand, is a reflective process. A man says to himself 'this is the qualification'. '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 ekīkrtua arhnāti). If the qualifiedness of the thing were real (yadi vāstavī visistata), 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 (svarupatah), but is constituted by some superadded condition (upadhikrta)"'.

[•] The doctrine of the real universal makes its first appearance in the seventeen sittras which form the second *dimika* of the first adhydga of the Vaiéssika Sütra; and Praśastapāda's brief treatment of the topic' seems to follow the teaching of the Sütra fairly closely. Diùnaga attacks the Vaiéssika doctrine in a fragment' of six lines preserved in the Saradarsanasamgraha. Prabhakar replies to his criticism, and enunciates the realistic doctrine in a different form¹. There is, besides, a passage in the Ngäyastira' which, in dealing

*PB pp. 31-814 See also the p.11 and p.19. *Ps. pp. 31-814 See also the p. 11 and p. 19. *Bee Framents from Dinnaga, fragment Q. *Jhs, PSPM, pp. 94-101. *NS II, ii, 68-71.

spoken of 18 of course fundamental. And I do not know that the $Ny\bar{a}y_{0.6}$ $F_{ai}e_{ai}ke$ school have any satisfactory account of 1 to offer. The doctrine of the real universal is not a complete solution.

^{&#}x27;yahabhatio 'thak, tathopsiguate, i o in should be an immediate impression in point-to-point correspondence with the reality or archetype. 'NR p. 198 11. 19-94 As observed in a note just preceding, our

^{*}NK p. 198 h. 19-94 As observed in a note just preceding, our school hardly deals with this difficulty unless we can find a solution in the Vasiesisk doubring of categories. I do not think we can.

with the nature of words, distinguishes the 'class' (dik), from the individual (eyakis) and from the 'form' (dikris); i.e. the mark by which a class-nature is recognised: but there is nothing said as to the ontological character of this 'jati' which is merely defined by 'production of the like' (samānaprosactātmikā jātit NS II.u.71) and seems to be what we should call a natural class. It seems that the doctrine of the real universal was primarily a Vaisejka doctme: though the Nature-actura also knows it.'

The Vaiśesika Sūtra teaches that sāmānya and nisesa are relative to thought (sāmānyavisesa ut buddhyapeksam I 11.3). The meaning of this seems to be explained in the two following sutras which say that Being (bhāva=sattā) 18 only sāmānya, because it 18 the ground of inclusion only (anuvriter eva hetutvat); while 'being a substance', 'being a quality', and 'being action' are both sāmānua and višesa. Sūtra 6 sava that sāmānua resides elsewhere than in 'ultimate differences' (unuaträntuebhuo visesebhuah). 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 (dravyaqunakarmabhyo' rthantoram 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 sāmānua and viścsa' (10). After

Reference to the Vasterika doctrime of the eternity of the universal is clear (og) in NS II in 15 nc, cheight docedimatricantustation mitteer app athiesand unceffe co. The previous stire has kaupit that sound is noneternal because it is an object of sense-perception. This stire objects that universals are objects of sense-perception and yet are eternal.

"No specific argument is given that it is not substance. But this follows as a corollary for if it were a substance we should have the absurd consequence that substance resides in actions and qualities—the reverse of which is the truth.

*stmänyossiegäbådeens os This same formula is repested un eitras 19, 14 and 16 as a proof of the reality of the subordinate universals being substance', 'being quality', and 'being action'. Universals do not resude in universals, but only in substances qualities, and actions This

^{&#}x27;Greek influence could be suspected, but there is nothing to prove

similarly arguing the reality of the subordinate universals drawgutae, gunatae, and karnatae (saitas 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)⁷. The perceptibility of universals is asserted in another passage (VS VII. i. 13)⁸, but there seems to be no statement that they are eternal².

It has been held that VS I.ii.3 asserts the subjectivity of the universal, and that therefore the Sutra 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 Prafsatapää an the Bhäga.

"Universals are of two kinds, primary and subordinate. The universal is ubiquitous within its proper sphere', identical', resident in more than one substrate', and is what makes us think of a thing as

was the constant doctrine of the school and it led to the awkward consequence that ' Being ', as a universal, is not predicable of universals themsolves.

'sad ste lingāvišeşād višesalingābhāvāc casko bhāvah I. 11 17

² stema gupates bkāce ce serendriyam syškkyšiam. "By thu it is explaned that there is knowledge of the universals 'being quality' and being 'through all sense-cranan'. It is not clear why only these two universals are mentioned presumably drespices and kermetre are thought of as implied A tony rate the statement must apply to them also.

But it must have been a doctrine of the school before Presstapids, since (as stated above, p. 138 n. 1) it is referred to in the Nyāya Sütra and it is impossible that the Nyāya Sütra should have been redsched after the disc of Pressentids.

'Cowhood is present in all cows.

Because the essence whereby it resides in one cow is the identical essence whereby it resides in another cow, there being no difference in the conception of cow-nature in different cases.

⁴If you say that it is impossible for one thing to reside in many, the answer is that impossibility cannot be asserted of a thing which is established by a valut means of cognition-in this case, by perception. ss hi premdpdeegate 'rike kind anspeptir mäma. NX p. 315 1. 6. Experence shows cowhood resident in many cows. conforming to its essence—whether the thing be one individual, or two, or many. In other words, without losing its identify 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 (sämänyäpeksam ... yad anuqatam) is the universal.

The primary universal (spoken of above) is the universal 'Being' (sattäsämänya), and gives rise to the thought of inclusion (anwertiti)' 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': 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 sat is pratyagianuspitch)'. And this thought must come from something other' than substances, qualities, 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

'anucritis, anugama, etc., are troublesome to translate. The idea is that of the one in the many —one nature running through many individuals, to which all conform 'Inclusion' is not an accurate rendering, but practically convenient.

⁴This passage (or something similar) is referred to by Uddyotakara m NV p. 319 1 16. See above, p. 28 n. 3

"This phrase has a variety of forms. Sometimes we find anucritipratyayah, sometimes anucritispratyaya, here pratyayänuoritik Similarly when anugama and anugata are substituted for anucritis and anucritis and anugata are substituted for anucritis and anucritism anucritism and anucritism and anucritism and anucritism and anucritism and anucritism anucritism and anucritism anucritism anucritism and anucritism an

"arthäntaräd bhavitum arhais Compure VS I. il. 8-dravysgunakarmabhye "rthäntaram sattä. of each thing that it is : and therefore 'Being' is a universal, and the Summum Genus'.

'Being substance', 'being quality', 'being action', and the rest' are subordinate universals, because they are the ground of the thought of exclusion as well as of inclusion (anuertti-evgavrtti-pratyayahetutvät). A subordinate universal is thus both genus (sämänya) and species (riskea)³. Thus substance-hood is a genus

"tasmät sattä sämänyam era He seems to combine two thoughts here (a) that sattäsämänya is a reshity, and (b) that it is only sämänya, never siskey-i-e thas it is the Summum Genue-as stated in VSI in 4

³ 'the resi' means the universals subordinate to substance-hood, qua'ity-ness, and acton-hood,—e g privetives, rupates, utksepanates, e'c It comprises all universals other than satia

vises a suffers from an unfortunate ambiguity

(a) As one of the extegores of the Varietake system it means those extinues differences which separate unique entities used as stands from each other. Each of these entities is regarded as in facility in present, and so used to the extension of the standard sta

(b) But—in a secondary sense, as Prafastapida humself asy, just factor—specific differences are also called erdeet. And thus erdeet service and the sense of the sense in the sense in the sense of the sense in the sense in the sense is a sense in the sense is a sense of the sense the sense of the se

Us states that later Fasterisk manuals sometimes exceed sömängarduge mic an additional estegory, nake by nel with atteikämänga, on the one band, --which is only sömänga-, and with sites (the estegory) on the other band, -which is one is only sites, (aver sömängar). We oftan meet the compound sömängardise, and it can usually be translated 'specific universal', imbortimus on utwersal', bengu used to distinguish all other universals from 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, sub-tance-hood, and the rest are in the primary sense genera (simanyajan), because they comprise many things: it is in a secondary or transferred sense (bhaktya) that they are called 'riscsa', from the fact that they differentiate their substrates (from other things)².

• That these universals constitute a separate category (padarthantaratea) from substance, quality, and action is established by the difference in their characters (lakyanabhedat) And for this very reason (i.e. that they are different from substance, quality, and action), universals are cternal? Ana universals are different from each other because they are determined to residence in substances, and so on . and because the thought of one

settisized regression of the universal 'Berng'. The use of this isome to denote the objects of disconsidions in the Ministon, in the sections on perceptions in the Bhäppe, constitutes one of the difficulties of their sections of the difficulties of the section. We know that some samply 'Berng' And Bridhars tells us that 'Drakatspilda meant that no merely definitions' that is object was apprehenden in 'har national'. That is, 'bars mutation' apprehends universal of all sorts,—not only 'Berng', but also refers quality, 'estimation' apprehends universal of all sorts,—not only 'Berng', but also.'

('All sorts of universals' is of course a phrase condemned by the sdstra each universal has scaringsstill, and we may not class them. But even Prashatspäda says sämängavi deteidlare 1)

'For brevity I omit eight lines of the text, which show, in the same way, that the same thing is true of all subordinate universals.

²sväšrayavišesakatväd bhaktyä višesäkhyäni. On this see the last note but one.

"Softhars arys "If unverse's were identical with subtances, etc., they would person on the destruction of the subtance, etc., and would come into being with its origination. Bits at they are different, the rule does not hold." *MR* y 331 6 For the 'difference in character', are the definition bld". *MR* y 331 6 For the 'difference in character', are the definition Elementy was not monitored in the identition, no should how the interactival instanded to trees it as a cocollary from the definition

Some universals reside in substances, others in qualities, and so on : and this determinate choice of substrates shows difference in the universals themselves. NE p. 316 1 20.

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 difference¹.

Although universals have no determinate location (apariochinnadešāni sāmāngāni), nevertheless each is 'ubiquitous within its proper sphere' because the conditions under which each is manifested are determinate (upalakşananiyamāt), and because there is a definite totality of conditions requisite for the production of the individuals which manifest the universal (kāraņasāmagriniyamāti). And universals are not to be indicated in space (antarāle avyapadēsyānı) because they cannot reside there either by relation of conjunction (samyoga) or by that of inherence (samarāya) ".

In an earlier passage' which treats of the likenesses and differences (sidharmyavaidharmya) of the categories, Pradsatapäda mentions seven characteristics common to the three categories of Universality, Ultimate 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)

Compare VS I. n. 17 sed it imgéndérid evfesingablisée canke bibles). Fraskatspik ankes the magnificant change of inge unit olskeps an quoting. The more important modification which he introduces is in the splication of the formula, which in the sförs a used to establish the unity of sails. Roung, only, whereas Preferables used to establish the unity of sails. Roung, only, whereas Preferables used to establish the unity of sails and the stable stable stables and the stable stable stables of the formula, which below the stable stable stables and the sail of the formula indexiables the stable stable stable stables and the stable SrdBan trees to gree its distinctive meaning by interpreting iskepse (in the second phrase) as prometage. "There is no means of proving difference".

¹.e. because a universal only shows itself in a particular kind of thing, and because things of that particular kind do not come into existing as random, but under fixed causal conditions. Brithman glosses the first parase by abheyantyakarya aregoscientifikasosi/eavya suguistadi. because the appendiculation of partis which manifests the universal is fixed by rule.

Bhāsya, p. 19, l. 1.

¹pratyskam svēšraysņu lakşanāvīšsējāl višsējalakņanābhāvāc caskatvam.

that their Being consists in their own essence or unique nature (srätmasqittea); (2) that they have thought for their characteristic (buddhilakşanatea); (3) that they are not effects; (4) that they are not causes; (5) that they do not possess genus and species (astmänyatisegarattea); (6) that they are eternal; (7) that they are not called 'things' (arthäsabdänabhidhsquite,).

The following observations may be made under these seven heads :---

(1) Substances, qualities, and acts are held to exist in virtue of a universal '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 sattayogah 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 (anavasthā), 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 made¹, there would be no limit to the multiplication of super-universals.

(10) universals (sămănya) do not imply a class-nature 'universal-hood' (sămănyatea), because this would involve infinite regress :

^{&#}x27;At a later time Udayana formulated the six jditbädhaka, or impediments to universality, in a couplet which became the current coin of the schools cyakter abhedah, tulyateam, samkaro, 'thänavasthishi, rüpahämır, asambandho, jditbädhakasmgrahah

⁽¹⁾ A class must include more than one thing, so that there can, for instance, be no class nature of ether (akāšatoa)

⁽ii) the same thing under different names will not give rise to a classnotion, e.g dish, candra, sudhu are three names for the moon, but do not indicate a class-nature 'moon-ness'.

⁽iii) the bhütadraoya's are earth, water, fire, air, and either, while the mürtadraoya's are earth, water, fire, air, and mind--kherefore there would be 'confusion' if mürtates and bhütates were sämänya .

And similarly we must not say that the various universals are all universals in virtue of a universal nature 'universal-hood' (sāmānyatva) 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 universalising function of thought imply a real universal 'Being' residing in universals, and a real universal 'universality' which makes them all alike universals ?---Prasastapada's reply amounts to saying that there is really no universalising function of thought implied in the assertion that the various universals exist and in the designation of them all as *universals*. 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 Srīdhara explains', that thought itself is the proof of the reality of the unversal, when its reality is contested (vipratupannasămānyādisadbhāve buddhir era lakşanam : lakşanam being glossed by pramāņam). It is true that, on Praśastapāda's view, the universal is perceptible, and therefore perception is the means of knowledge (pramāna) by which we apprehend it. But, in dealing with an opponent who refuses o admit that the universal is green in perception, the

⁽r) ultimate differences (risesa) have no common nature (risesatra) for they would then forego their own nature, since ultimate differences can have nothing in common

⁽c) finally, inherence (samazdys) cannot have inherence-ness resident in it, because there is no relation available by which such 'residence' could be explained,—for the supposition that inherence-ness resides in inherence by therence involves infinite regress

This arbitrary imitation of 'real universals ' has parallels in Greek thought. Socrates protested against it.

Krith, ILA, p. 108, fortnore, says that FS I i 8 is 'badly explaned away in this passage as meaning that the existence of universals as proved by thought I'm thinks that the strate of the existence of the Knith bimodi Collis ' rangel rangel man, 'non-the phase haddnakangen And Be cak only have theant what Sridhars asys he meant. As to the meaning of the strip it. 18, see above, 188.

appeal lies to the universalising function of thought, anuorttipratyaya. And it is in fact on this that Prasastapāda relies in order to establish the reality of the universal.

(3) The universal is not an effect, in thus sense that it has a subsustence independent of the individuals in which it inheres (käranänapskasvabhävatra). A whole (aragazi) is an effect of which the parts in which it inheres are the constitutive cause (samaräqukärana). But this cannot be said of a universal, which (unlike a whole; subsists before and after any individual in which it inheres.

(4) A universal is not a constitutive cause, nor a nonconstitutive cause (asanaväyikärana). It must however be allowed to be an occasion or occasional cause (numitlakärana): for it is the occasion of our thought of the universal.

(5) This is explained under (1) Sridhara however interprets sāmānyavišcşa here as meaning specific or subordinate universal, 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 applied to universals

Dinnāga's dialectic against this realistic view is preserved in a fragment cited in the Sarvadaršanasamgraha' Prašastapāda does not reply to any orticisms of the kind which Dinnāga brings. But Prabhākara's doctrine seems to have similar criticisms in view. "Though the Jāti 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

^{&#}x27;Dmnäga, Fragment Q.

There is nothing objectionable in the 'production' of 'inherence', because inherence, according to Prabhäkara, is not eternal (as held by the logician)''. Prabhākara differs from Praśastapāda in refusing to admit satlā, 'Being', as a universal, apparently on the ground urged by the Bauddha critic as reported in the Saradarsanasanigraka. that there is no common form running through things so different as Mount Meru and a mustardseed².

SECTION 11 RECOLLECTION, ATTENTION AND ASSOCIATION

In a passage in the Nydya-stitra 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 (gradess) of the soul concerned. See

Jbs, PSPM, p 100

⁴-distance interval digressive passages in his comment on PBh here vie NR PD 315.86 (resulted by Faddoron 160 ff. and NR pp 11-13, translated by Yaddogon p. 800 ff. The former desis with an objector who maintains that the unversel is both different from and noo-different from the particulars , (bheddbhedd), on the ground this if you take the unversel in beintcion from the particular it has no content left to datinguals it from other unversels. Universality, as such, only means inicontent by which now unversals in distinguished from another. Bare unversels in a subtriction from denotes it is no another. The particular from which therefore it caunto be cogaride as separable. But on the other hand the ow-hood which is thus inseparable from over Blots and cow Bors and denotes in both the bareling of the size and the particularcannot be discussed in the three differentiated from the other particularcannot be discussed which as thereal if from is an empty-should are come (deselegational which as the bare of the issue and desentional are one (deselegation bare of the bareli for the loss and Spois, shough both are cows (deselegation bare of the bare of the size of the size of the size of the desention bare of the bare of the size of the size of the are of a size of the bare of the bare of the size of th

By similar reasoning it is argued that the universal is not merely eternal, as the Varderks holds, but at once ternal and non-eternal (sirgishity), because it both survives and dose not survive this and that individual. When Spots dose, ker cow-hood dies also; but the cow-hood of Biots survives.

The other passage reviews various definitions of 'being', put forward in opposition to the Vaileyika doctrine of universal 'Being'.

NS III. ii. 25 iñānasamavetātmapradeśasamnikarsān 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 once. In Naiyāyika phrase, though ātman is all-pervading (ribhu). manas is atomic : so that, though soul as such is potentially 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 fail 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 maintaining 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 sarīravrttitvād manasah—NS III ii 26). Life itself. as Vātsyāyana 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.11.81—ātmapreraņayadrcchājfatābhiś ca na samyogavišeşah). But this lme of objection is set saide by the sätra, because it proves to 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—vyāsuktamanasah pādavyathanena samyogavišesena samānam—It is the same as the specific contact of manas with ātman 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 diman and the existence of traces of past experience there are other conditions of recollection. namely, concentration (pranidhana), 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—prandhanalingädinänänäm ayugapadbhärdä ayugapatsmaranam.)

No attempt is made to reduce 'association' to laws, but sūtra 42 enumerates twenty-two conditions' of recall, namely : concentration, context, repetition; sigus (classified by Vätsyäyana as fourfold—the conjonned, as smoke is the mark of far : 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

^{&#}x27;prosidhène, mbendia, abhydes, inga, lakeane, südyiya, pargraha, dritasahbanha, isanataya, sugar, ekakira, eirodha, atalya, gargu gyandhene, valasahkan, cadarage, baya, arthuta, krugi, rage, dharmadbandha, ekakiha, cadarage, baya, arthuta, krugi, rage, dharmadbandha, es separas hand raitana, as parao linny vib bia tenden bandha, es separas hand raitana, as parao linny vib bia tenden bandha, es separas had raitana, as parao linny vib bia tenden bandha, su bia tenden raitana, as parao linny vib bia tenden bandha bia tenden bandara bandha bandha bandha bandha bandha bandha Mayana's interpretation and used hu illustrationa an other cases; but he may here manitarpreted the magana d the effer an some cese here)

an animal 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 versa; 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 (Vātsvāvana gives no illustration, and it is not clear what he has in mind); acquisition, 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 dement, 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 dharaqam) through desire to remember; or, thinking of the marks of the thing to be remembered (summärsitalingacintaniam). 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 (abhrgaisgainitha samkara atmaguabh). (2) Associated objects. The single head lings, in its fourfold meaning as interpreted by Vätsyäyana 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 'likenes', 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 emotional moods which facilitate recall, are related to this head.

'Immediate sequence' implies conative unity, which relates at 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 'mernt-demernt' (which would stand for inherited and instinctive disposition, in modern phraseology) should go along with 'repetition'.

CHAPTER II1

INFERENCE

atha tatpūrvakam trividham anumānam, pūrvavac chesavat sāmānyato dīstam ca

tad idam hetüdāharanayoh sāmarthyam paramasūksmam duhkhabodham panditarūpavedanīyam

The general nature, and the variaties, of inferent var-The ngdys, or demonstrature method-The formulation of the sylicymen, and the functions of its members--The examo of sylicguran, or trainform-Classification of fallecous middle terms-Fallecous proposition, and fallecous exemplification-Sylicguran-Sylicguran-Cidyatexa's criticism and parely negative types of sylicguran-Cidyatexa's criticism of the interpretation of the trainform of the d' acadificant's '--Vicaspath Mint's criticant of Dharmakfitt's doctime of the 'samacifysmathiceabdrage'.

SECTION 1 NATURE AND VARIETIES OF INFERENCE

The earliest Indian formulation of inference which has survived is probably that contained in the Vaidesika Sútar'. Inference is there defined as laingikam', 'knowledge from a mark or sign'. This inferential mark —middle term—is of two kinds; drytam lingam on the one hand; and darjatam or sämänguak od tytam 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

^{&#}x27;Faddegon, VS, pp. 296 and 800, gives the following list of sitra's bearing on mference II. i. 8-10 and 15-17; III. i. 8-18; III. ii. 6-8; and IX. n. 1.9 and 4.

the Vaiśesika Sūtra (IX. 11.1). Very notable is the absence of all reference to the function of the example in inference, with one dubious exception (VS IX ii 2); and the absence of any doctrine of the 'members' of the syllogism, which plays so large a part in the Nuāva The Nuava Sutra uses the word linga, but Šūtra. its regular word is hetu, reason or ground. Tt stresses the function of the example, making inference turn on resemblance (sädharmua). And instead of naming real relations as the basis of inference. ıt defines the function of the hetu through the general conception of 'probativeness' (sādhuasādhana). derived from likeness to examples (udaharanasadharm $u\bar{a}t)^{1}$. The doctrine of the Nuāva Sūtra probably represents a later phase of logical development than that of the Vaisesika-sūtra : and it stands for a different way of thinking, really, although the early syncretism of the two schools has obscured the initial difference in standpoint. The Vaišesika-sūtra is interested in the inferential process as such, whereas the Nuāva is interested in demonstration: the Vaišesika 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 Naiyāvika, on the other hand, was from first to last a tarkika, 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 Vaiśesika-sūtra 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

through an inferential mark is where this is (a) effect of. (b) cause of, (c) conjoined with, (d) opposed to, (e) re-sident in, that " (asuedam kāruam kāranam samuogi virodhi samavāvi ceti laingikam). 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 18 commonly described as 'seen from likeness'). These two types of inference (drstalinga and adrstalinga or sāmānuato drstalinga) are referred to in numerous sūtras (e.g. II.i.8, 10, 15, 16; III. ii.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 (dravua) which the system recognises. They are both imperceptible, although their qualities are perceptible : and therefore their existence has to be established by an inference. But plainly it will not be an inference of the ordinary kind which establishes the imperceptible · and hence the necessity of admitting a special type of inference for the nurpose.

This twofold division of inference is found also in other early schools, and may have been borrowed by them from the Vasiestha. Sabara in his Bhägya' on the Mimäinsä savs. "Inference is of two kinds: that in which the relation has been experienced in perception (pratyakşato-drştasambandha), and that in which it is experienced from likeness (sämänyato-drştasambandha)".

¹⁷ Page 10 1 12 Kumārias objects ""The division of inference into two kinais su possible, beams the connection between resolutions **a** pilece and movement is seen by perception, no less than the connection between modes and fire. If may be said that there is an poterophic of this connecmodes and fire is the hull." **Traisstangida's** distinction, referred to below, takes the force out of this objection.

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 basis of the experience that change of place on the part of a person 18 always preceded by movement (Devadattasya gatipurvikām desantarapraptim upalabhua) Vātsvāvana gives the same illustration of samanyato drsta inference'. The point of the example is that the movement of the heavenly bodies is a thing beyond direct experience. But the original application of this type of inference is to something which transcends experience in a completer sense than this : and the Sānikhua Kārikā (verses 5 & 6) is nearer to the original doctrine when it says sāmānyatas tu drstād atīndrivanam pratitur anumanat " knowledge of things beyond the senses comes from sāmānyato-drsta inference ". Gaudapāda is giving the right illustration when he save that the existence of prakrti and purusa is thus inferred.

The distinction then was originally a very real and important one. The Vaikeşika-sütra notes as a pecuharity of the sämänyato-drz(a type that it does not lead to a definite or specific conclusion—sämänyato drz(dc cäušeah)—and this is perhaps the reason for the name

Compare VS II. : 9-17 . closely parallel, and certars affects passages nave expirit reterence to onmother is clear. From III. 10 Both passages note that the conclusion : another is clear. From III. 10 Both passages note that the conclusion : not inference-summing, but implication-arthford: which is an acut and on harves of inference pairs (observation).

The difficulty about the apprehension of wind (eigst) for the Varieşte, is that it has not add/biter-space, 'manufest colour'. A substance like carl' is considered to be preceived because in addition to it specific property o dour it is allow vanishe. But when a substance has no add/biter#pion, it is held that the substance, as such, is not preceived, but has to be inferred from its peculiar property.

¹It is also given in $Vy\bar{a}sa$ bhōvua on YS I 7, though the two kinds of inference are not there distinguished, and by Gaudapäda in his comment on the Samkaya Kärkä, as an example of samsayadotara inference

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'.

The distinction as thus understood is preserved intact by Vātsvāvana in one of the explanations which he offers of the term sāmānyato-dista in NS I.i 5: though it remains doubtful whether this was the real meaning of the sūtra. 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 inference is " sāmānyato drstam nāma yatrāpratworth moting. vakse lingalingingh sambandhe kenacid arthena lingasua sāmānuād apratuakso linaī aamuate, uathecchādibhir ātmā. uchādayo gunāh, gunāš ca dravyasamsthānāh tad yad esām sthānam, sa ātmeti." "The sāmānuato drsta interence is where, the relation between the Mark and the Subject not being perceived, an unperceived Subject is inferred from the likeness of the Mark to something" : as the Soul is inferred through desire and the like. Desire and the like are qualities; and qualities are grounded in substances. That

'Armord ordress Imparia immunit "from the likeness of the Mark to sensibleng". But similarit should perturbate le translated 'from the Mark's community of nature with scienting else. For desire, e.e., are not merely like qualities. They are qualities are they are qualities of so unique a kind that, to use Prastanipedia's enlightening phrase, we may say there is a given statistical complete difference of kind, between them and those playness qualities on the relation of which to (physical) substance the inference is grounded

" WBh p. 19 | 6 (on NS I, 1, 5).

^{&#}x27;it is because Locke has the same abstract notion of the substrate as sometimpe-knews-not-task it has the find at it possible to auggest that after all God might have ''superabled to matter a faculty of thinking '' *Hasey Concerning Humans understanding*, 17 un 6) The Nyléga-After therefore argues from the specific nature of psychical qualities to a specific substrate, soil Ne. NS III us 88 f

which is the ground of these qualities of desire and the like, is the Soul ".

The fifth aphorism of the Nyāya-sītra 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—pārvavat, šeşavat, and sāmānyato drzt was already obscure to Vātsvījana, vho rives alternative explanations of them.' If conjecture is permissible, it may be suggested that sāmānyato drzta meant for the sitra-kāra just what it meant in the Vaišeşika-sātra; and that his innovation consisted in further two heids, pārrarat and šesavat. As references are made in the Sātra itself^{*} to inference by elimination or residues or disjunction—parisēgānumāna—it is possible that segarat has this meaning : and this is one of Vātyajana's alternative explanations. In that case we may

"Each ILA p 00 considers link NS 11 i 37—6 must be regarded as grang three makanes of inference corresponding to the three types of inference enumerated in NS 1 i 5 17 time hose, two of the three types of inference inference which Vakiväana reactions in the assumed as the time type of the the Stirlader do not correspond with the inference of the line type of the inference that he said three T. The type of the time type of the inference that is hear time board of the inference of the inference time is a said three. The three makanes here given are (1) the inference time is a said three. The three makanes here given are (2) the inference time is not summary about with ther energy, (3) the inference that there is a psecock in the jurgle, from the psecock-like scream (Keuth follows lake commentations interpreting this last as inference of the common of the start start of the meaning of this phrase has lost ifs distinctiveness it would mean annyly inference from resemblance.

The third example of somminger draft given by Gaudapäda in his comment on the Sämking Kärikä has a similar want of distinctiveness, πz , the inference that because the mango-trees are in bloom here, they must be in bloom elsewhere

 3NS III n 40-parises d yathok tahet uppoited ca Väisyäyana on this cites the same formula or $\tau^2 kya$ which he cited on I i 5 to explain deserts -

presaktepratizedke anyatrāprašangāc chusyamāne sampratyayab"— " if you deny various possibilities, and there is no possibility any where else, you must come in conclusion to the remaining possibil ity "

We have proved that consciousness cannot belong to the five material elements nor to manas there is no other substance except diman, soultherefore in must belong to soul

accept as the original meaning of pürvavat Vätsvävana's explanation : vathāpūrvam pratyakşabhūtayor anyatara darsanenä'nyatarasyä' pratyaksasyä'numänam. uathā dhumena'anih. "Purvavat 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 (drsta-linga); setting aside eliminative inferences which the sūtra-kāra has found it necessary to treat as a class apart, thereby innovating on the Vaisesika-sū'ra, 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 Nawawika himself.

The alternative explanations which Vätsyäyana offers of the three terms are that *pirravat* is inference from what preceded, that is from cause to effect, as when we infer that there will be rain, from clouds; *seyarat* is inference from what followed, that is from effect to cause, as when we infer that it has rained, from the swollen river: *sāmāngato drsta* 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?

¹⁷Tha is not further explained by Väitsyäyana, but he se quite well aware that it is different from the infersor to the existence of the soul from psychical qualities And, as has been easil above p 151, he gives the latter as an illustration of a different explanation of sémänyato dręta, which he analyses carefully.

The present explanation of sāmānyato drata agrees with Sabara's, and with Prafastapāda's, and is a natural development (rom the older view as found in the Vaideyika-Sâtra For a further account of it see the following paragraphs, pp 158-169

The difference between the two views may be expressed by saying that the adopta-impa of the Vastenka-skira is an inference about an unknown minor-spratyakse imgalinginoi, sembondhe while the sămânyatodryta of Shara and Praśstenajada is an inference to a re-stively novel major.

Prasastapāda supplements the doctrines of the Vaiścsika by those of the Nuāya, and develops new logical conceptions in his interpretations of both his sources. He accepts from the Nuāva the doctrine of the example. and develops it into a canon of inference, as will be shown later. He supplements the Vaisesika notion of the linga. and of the real relations which provide the basis of inference, by taking over the Naivāvika notion of probativeness; and he attempts to make this notion more definite by conceiving all inference to rest on avinabhava, or inseparable connection of characters. And in the light of this doctrine of inseparable connection he fixes the formula for a 'major premise', which really usurps the function of the Naiyāvika's udāharana or statement of probativeness derived from likeness to examples. The rest of the section deals with Prasastapāda's statements relative to the process of inference, the relation through which the inferential mark functions, and the two kinds of inference.

(i) The process or 'instrument' of inference

PBh p.205 1 10. "The formula (*vidhi*) is 'Where there is 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 (*prasidhasamayasya*), the conviction of fire arises, a the 'c-ult of an und 'ubted experience of smoke and as the result of remembering the accompaniment of suicke by fire (*sāhacarījāusmarnāfi*)''.

The phrase prasidhasimayasya is explained by Sröhara as prasidhäsinäbhänaya. It has been argued by Scherbatsky that this is borrowed from Dinnäga by Prasastapäda, who has concealed or attempted to conceal his obligation by altering the phrasing'. Dinäga's

¹Le Musdon NS vol v 1904 "Comme toujours Pradastapäda a masqué son emprunt en changeant les termes" (p 140 footnote) Keith ILA n 105

definition, as quoted by Uddyotakara' is nantariyakārthadaršanam tadvido 'numānam,---" experience of a thing as inseparably connected is the instrument of inference, for a person who knows this inseparable connection ".-But the argument that Prasastanada borrowed his prasiddhasamayasya from Dinnāga's tudridah would prove too much. For a precisely parallel phrase occurs in the definition of inference given in Sabara's Bhāsya²—anumānam mātasambandhasya ekadešadarsanād ekadesān'are 'samnikrste' rthe buddhih. And it would not be suggested that Sabara, or the vrttikāra from whom he appears to be quoting here, is concealing his borrowing of Dinnaga's tadvidah by changing the phrase into *jnātasambandhasya*. 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 must your 'Mark' will be a fallacy of the variety designated by Prasastapada 'tadbhāvāsiddha' NK ad loc. p.206 1.11

Sridhara points out that the instrument of the inferential conclusion is according to this passage the experience of the smoke (the middle term) together with the memory of the universal connection (vuāpti). This he says leaves no room for the lingaparāmarśa (in the form rahnıvyāpyadhumavān ayam parvatah—in this hill there is smoke-pervaded-by-fire)-which according to the teaching of Uddvotakara 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

 $^{^1}NV$ p 56 l, 14 Vácaspatı ad loc (NVT p 120 l. 8) does not attribute this to Drināga but the attribution is implied at p. 137 l. 1 and again l 12 See Drināga, Fragment G. *p 10 l 11 m the Biol. find editona, 1889

the syllogism, as distinguished from the statement of the linga as a property of the paksa which is commonly assigned as the function of the second member of the syllogism (paksadharmatā).-Srīdhara savs that the Vaisesika has no use for this 'dvitīualingaparāmarśa'': since the conclusion is made possible linaadarsanarväptismaranabhuām eva-simply through seeing the Mark and remembering the connection. He adds that the upanava 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 paksadharmatā-the residence of M in S-which has not been conveyed by the other members (avayavantarair apratipāditasua paksadharmatvasua pratipādanārtham parārthanumane tasyopanyasat. NK p 206 l. 15)2.-For, on the Varsesika 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 (paksadharmatā)³

(ii) The r-lation on which inference is grounded

"Thus the Mark is something PBh p.205 1.14. inseparably connected with something

else in every time and place (sarvatra deśakālāvinābhūtam itarasua lingam). The mention of the causal relation and other relations as grounds of inference in the Vaisesika Sūtra (IX.ii.1) is by way of illustration and is not meant as an exhaustive statement of the grounds of inference (nidarsanärtham kriam näradhäranärtham) : for we find other relations besides those mentioned (used as grounds of inference). Thus when we hear the officiating pricst

^{&#}x27;It is usually called trtlyam isngajüänam,-the first being the previous It is satisfy called *fringen infogalisem*.—The first being the previous expresses of the Mark which had to spechemisson of the current scale can be apprendiced on the second scale of the second scale of

and on p 42 refers to the present passage of the Nydyakandall.

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 Canopus¹.

"All such cases are comprehended in the words 'asuedam', 'this is related to that', of sutra IX.11.1, for these words refer to relation in general (not to this or that particular type of relation such as causality or identity)". asucdam kārvam kāranam samuoai virodhi samavāvi ceti laingikam. Prasastapada would interpret this : " Inferential knowledge arises where 'this is related to that'as effect, cause, conjoined, opposite, constitutive or inherent, etc " The view of the sutra against which he is arguing interprets it as meaning that the grounds of inference can be reduced to a limited number of real relations. Now this corresponds with the view which Dinnaga and subsequent Bauddha logicians took of inference, except that they reduced the real positive relations, on which they supposed all inference to be grounded (apair from inference from non-perception, anupalabdhi), to the wo real relations of causality and identity (kārvakāran abhāva and tūdātmua), in place of the rather incoherem list given in the Vaiścsika Sūtra. Praśastapāda'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 (avinābhāva) and the means by which we arrive at knowledge of it (vyāptigrahopaya, to use the phrase of a

^{&#}x27;krakatapäks's illustratuos are not all favourable to hus pont, for is essy to result be cuusal relation undo some of them. Later logic manzalagree the illustratura of inferring colour or form from tasis-presennably as when hasting a firmt in the dark TH common 938-1648/mg/selfsipathwoninayer, selectionsmitch.etgeformatom for mos praching rejections minager, selectionsmitch.etgeformatom is any angel hergischer os Mission selectionsmitch.etgeformatom is a selection of the se

later period)¹. But there is nothing to show that Prasastapāda had in view the doctrine as taught by Dmnāga. He does not mention Dinnāga's twofold classification of relations.

(iii) The two types of inference-dṛṣṭa and sāmānyato dṛṣṭa

PBh. p.205 1.19. "The inferential mark is of two kinds: that which is directly experienced, and that which is experienced from likeness (dr_{sfam} , $sämänyato dr_{sfam}$, ao). Where there is complete identity of kind between the property as known in the example, and the property as it is to be proved (*prasiddhasādhyayoh*), the inference (*anumāna*) is of the former kind (dr_{sfa}); 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 dewlap².

kāryakāraņablāvād vā svablavād vā nuyāmalāt avināblāvaniyamo 'daršanān na na daršanāt.

"Ketth ILA p 95 footnote 2 "Jacobi (NGWG 1901 p 483) and and (fart, p 417) reader pranddlasdAfusgob as referring to the subportion the example, but thus is contrary to the subport of the example, but thus is contrary to the subport of BB 114." Keth South as contrary the subport of BB 114." Keth But the context here shows that Jacobi and Suali ar enght The pirase on the Nylaphablays is used in connection with a different interpretation of admanyato dryft Brithars explains: pranddham yst pircent integres abut dryften, addhyam get sampraty ansangem 1 e pranddha-D as experimees in XP, the example addhyae is as to be proved in BP, the parks.

The cov-hood which is to be proved (delbys) is precisely similar to the cov-hood as expressed in the cover book as expressed in the cover book the example or aspecks (pranddha). As Brithars puts 1: gotequities/delgim ece googudkies admondable samperia gon projective admondable aspects of the projective setting/del mess cover and the sample of the sample of the dryst message of the sample of the sample of the dryst and the sample of the dryst and the sample of the dryst message of the dr

^{&#}x27;Sridhars has a long egression on this controversy, NK pp 206-210. The passage is translated by Feddegon. pp. 188-465 Nee also Saroader for an early state of the Baddhars, first page Both Bridhars and Midharskärya take as the text for the discussion the often-sited couplet from Dharmakitt.

P. 206 1.1. "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 inferencial to be inferred with the general nature of the inferential mark (kingānumegadharmasāmānyānueritito 'numānam)' and this is sāmānyato drytam.

"For example, finding from experience that the activity of farmers, merchants, and officials has a result (*phalavattra*), we infer that the activity of hermits has a result too, although we cannot point to the motive as something that has actually fallen within our experience (*disptan prayoganam anuiddisya*)"

The distinguishing character of the sāmānuatodrsta 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 experience. In the drstānumāna on the other hand we are arguing 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 activities 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 sāmānyato drsta 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 sāmānyato drsta looks less cogent in form, but is more like real and valuable inference in fact

[&]quot;The meaning is that the particular form in which the P has been experienced (prasiddia) is different from the particular form in which P is to be proved (addiaya) — I in the alter form has never been experienced with M.

P. Bh. p. 206.

"This is inference for oneself (svaniścitärtham anumānam)."

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 Vätsvävana's distinction between anymana on the one hand, and nyaya or sadhakavākya or pañcāvayavopapannavākya on the other hand. But in defining the avayavas, or Members of the vākua, the Sūtrakāra does not keep the two things distinct, his definitions being sometimes rather definitions of aspects of the inferential process (premises in ' inference for oneself'), than definitions of those propositions (verbal expressions of premises) which alone can form part of a vākya, a probative statement. This, as we learn from Uddvotakara and Vācaspati Miśra, exposed him to the criticism of Vasubandhu ² and these criticisms would perhaps draw attention to the necessity of making more explicit than Vātsvāvana 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

I have deliberately rendered spaniculartham in what seems to me a wrong way here, making it identical in meaning with *zeartha*. But it should probably be "inference in which the object or conclusion is established (inferred) by oneself".

Wheth ILA pp 1067. "Yet a further prof of the dependence of Prastaphia on Dumaga may be derives from the fact that the distinction of remoting for orieseff in framewoing for another is present in Dynkigs, and a correspin stated (NBT pp 46-7) to its been introduced by him slight change on iterunities of a structure of the product of

³NV p 139 l. 14 The criticism is etasmin avayavatrays evantilakvanenopspädite tesäm trayo durvohläsä, NVT ad loc p 203 (last two lines) says. atro Subandhunä pratiifädayas trayo 'vayavä durvohitä Aksapädalakgenenety uktam See Fragments from Dinnäga, seetion 13

of discovery as between Prasastanada and Dunnaga. Nor is it clear that there is any connection between the recornition of the distinction between spärthänumäna and parārthānumāna, and the denial of the claim of verbal testimony to be a separate source of knowledge¹. It was inevitable that all schools should draw the distinction between inference in the mind and inference expressed in words,-whether or not they admitted Testimony as a pramāna or instrument of valid cognition.

SECTION 2 THE 'NYAYA' OR DEMONSTRATIVE METHOD

The formulation of the five-membered statement² is apparently the achievement from which the Nuāua system took its name The word nyāya meant 'method': and the five-membered statement became the method for the Nawawka-paramo nyawah, as Vatsvavana calls it m the brief account of it given in his comment on the opening sūtra'. Other 'nyāyas', or methods of debate and argument, had been prevalent in earlier schools, and Vātsyāyana himself' 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 Nyāna systemwho reckon ten members in the 'statement' by including, as parts of the method, the desire to know, the doubt, the belief in the possibility of a solution⁵, the purpose, and the dispelling of the doubts. The second and the fourth of these are enumerated among the tonics or ' cate-

^{&#}x27;Keith, ILA, pp 107-108

[&]quot;Vidyäbhüsana points out that Närada is described in the Mahabhörata (sabhänarnan, 5 1, 5) as one who understood the characters which make the statement endowed with five members valid, and the characters which uske it invalid-officegoverguliasya ečkyasya gunadovast. H1L n 498 This is certainly a reference to the 'nydya' as formulated in the Nydya Sutra.

^{*}NBh p. 5 1. 5 *NBh p 39 1 9 dašāvayavān eke nasyāyikā vākye samoaksale. sijnäsä samkayah sahyapräptili prayojanam samkayavyudäsa iti

[&]quot;So Keith renders the doubtful term fakyaprapti, ILA p. 86 JP5 (transl. I. 816) renders 'canacity to accomplish what is desired'.

gories' of the Nyāya Sūtra, but not as 'acayana's' or members of the 'statement'. These five additional 'members' are certainly phases in the psychological process of reasoning; but they have no place in a logical analysis of argument: and Vätsyävana, in rejecting' them on the ground that they are not organic parts (kdadsa, hhāga, aňga) of the probative statement (sādhakavākya) as not being instruments in proving the thing' (avādhanam 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 this principle. of the superfluous or non-logical members of the 'nuāua' was in fact a very important achievement It marks the transition from a pre-logical to a truly logical stage of reflection upon the process of reasoning, and fairly entitles the school which took this step to be regarded as the founders of the syllogistic art in India. The earlier nyāya' was a stereotyped formula for the conduct of debate and cannot claim the name of syllogism. It was a methodised 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 Kathātatthu, or from a consideration of the ten-membered 'syllogism' of the early Jaina logic as set out by Bhadrabahu'.

^{&#}x27;Schidays figures also in the lists of the 'tantrayukti's' The sixteen 'categories' of the Nyāya are no more than the 'tantrayukti's' of that system

^{*}NBh (n NS I 1 32

[&]quot;In many contexts (as here) arths can be rendered ' conclusion ' Ct. sourcettrikem anumanzem = an inference in which the conclusion is inferred by oneself.

Vidyabhüyana HIL p. 166=MSIL pp 6-8 The ten-membered syllogism spoken of by Vätsyäyana is quite different from this

The Kathāratthu uses certain technicri terms such as niggaha, patiāña. upanaya, niggamana, opamma · but net as the Nyāya does

The 'nydya' 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 Pradsatapida and Dinhāga regarded it. According to these writers and all the later schools, the nydya was simply the regular expression, for the information of another (parärtha), of an inference which one has drawn for oneselt (swärtha-, or stanisticitätha-, anumäna). 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 'implied in addition to the conclusion only two factors, corresponding to the two premises' of the Aristotelian syllogism. What factors in inference are expressed by the other two members' in the nufaua?

Either the *hetu* or the *upanaya*, on the one hand, and either the *pratijñā* or the *nigamana* on the other hand, would seem to have nothing to express.

The reason why the so-called Indian syllogism. the paficaugata-takya, had five members, is partly to be found in its history. The earlier ngåga's were not syllogisms, nor even pararthänumana, 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 particular school : there was no logical reason why the number should be ten in the earlier methodology. and perhaps it was not a purely logical reason which gave the nyaga five members in the Nyäya Sütra,—rather than three. The two additional members may well have been a legacy from the earlier

Inspectrum or polaridiarmenti, and explormentes. But Oddyness that, followed as the block-back of the other states of the states of the other sta

^{*}See section 3 infra pp 167 ff for the Indian syllogism and its members.

methodology. It is noteworthy that the author of the Nuāva Sūtra does not connect his doctrine of the ' members ' with the topic of inference: and Vätsvävana makes it plain in several passages that he conceived 'the method ' or the five-membered statement as something more than, though inclusive of, inference. Thus, in identifying nyāvavidyā or nyāvašāstra with the ānvīksi $k\hat{\imath}$ of the earlier literature, he asks : "What is this nyāya? Nyāya is the enquiry into things by the instruments of valid cognition (pramānair arthaparīksanam nyāyah). This enquiry or anvīksā consists in inference relying on perception and testimony. it is the subsequent investigation (anriksanam) into something apprehended (iksitasua) by perception and testimony. and the science which works with this anviksā is ānviksiki that is to say it is nuāvariduā or nuāšāstra-the science or art of logical method¹" At a later point in the comment on this same sutra2 he attempts to identify each of the four members of the pañcārayaparākua (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 single object. This is the prime method, the '*paramanyāya*''.—He speaks to precisely the same effect in another passage' '' In

¹NBh. p 3 ll 14-17 He adds · yat punar anumänam pratyakşägamavıruddham, nyöyöbhösah sa.

⁴NBh p. 5 U 1 to 5 teru (sc arayateşu) pramānasamatāya dzamalı pratyrā, hetur auumānam, udāharanam pratyaksanı, spanayanam upamānam araetešm sākthasamatēja saimartikgapratakranam nugamanam itt so 'yank paramo nyāya ti. (There should be s stop after pramāņasamatēgah, and no sankāh)

⁵NBh, p 41 11 10-16, on NS I 1 90 Dr. Jhä's translation of this passage is mulesding. His takes *somblaces thet dobdarqapit protytic* as one clause-⁻¹ in the inference bearing on sound its *Proposition* 's sound is non-eternal' comes under 'Probability''' This is impossible, seong that the Xarighyak did not samit samblace to be a premajar.

the statement which is the aggregate of the members (i.e. in the pañcāvauavavākua) the various instruments of cognition co-operate (sambhūya) 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 prataiinā). Owing to the fact that such testimony is (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 perception (pratyaksavisayam udāharanam), since it is by something seen that what has not been seen is established (in the infer-The Application is analogy, since it applies (the ence) example) in the form ' so is this ' (upamānam upanayah, tathetų upasamhārāt).

In these passages Vātsvāvana clearly treats the fivemembered statement as a method (nuāva) 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 sūtrakāra's definition of inference as tatpurvaka, 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 (drstanta XM)- 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 'nuāva' 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 'nuāva' which Vātsvāvana here treats as something more than inference. Whatever then may have been the intention of the sūtrakāra, 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 induction¹. But the five-membered formula was influenced by its historical origin in a ' nuāva ' 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^a. Western logic might be inclined to formulate the argument from examples thus :--

1. X (the example) Y (the negative example) is M. is non-M.

2. X (the example) Y (the negative example) is P. 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", 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

^{&#}x27;See Note on the Indian Syllogism, in Mind, NS Vol. XXXIII, No. 132

[&]quot;Caraka seems to be thunking of inference in the way in which these passages of the Nydgubhäus think of the 'nydgu', when he says that summans as drightich tetubury wikklap. For he uses he's in the same of pramāga. But has account is that of the layman, and abould not be taken too seronally. Carakasanhita, eusmanthans, chap vill, p. 300.

^{&#}x27;So Faddegon characterises the 'Indian Syllogiam'. But the 'there fore' in the third statement here is entirely contrary to Indian conceptions which never treat 'induction 'as an informer.

single member, namely, the 'Example' (udäharana or nidariana), and therefore is still left with a superfluity of two members, viz., either helu or upanaya, and either pratifia or nigamana. This superfluity is inherited from the time when the 'nydya' was a method of debate and not yet a syllogism : and, in the case of the Nygya echool, the convention of five members may have been fixed (as is suggested by these passages of the Nydya Bhāya) by a desire to equate the four ' premises' with the four pramänas.

SECTION 3 THE SYLLOGISM, AND ITS MEMBERS

Praśastapāda's account of the 'syllogism' (parārthānumāna) and its members is as follows.

Definition of pararthanumana

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 (ezo).

The Five ' members '

(i) Proposition

"The Members, then, are the Proposition (pratijñā), the Reason (apadeša), the Exemplification (nidar-

^{&#}x27;The evsköra is meant, says Sridhara, to exclude the views of those who teach a two-membered väkya, and those who teach a three-membered väkya.

His comment here embodies a long digression on the controversy between the envilabildAsserada and the abhinitaneouseda, which is translated by Faddequa pp. 492-494 See Jhs. PSPM p. 63, who cites Cowell's note on SR (stars), p. 903).

sana), the Application (anusamdhāna), and the Conclusion (pratuāmnāua)1.

Among these, the Proposition is a setting forth of a probandum' 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 is desired to convey (pratipipādayisitadharmaviśistasya dharminah). For example : Wind is a substance'.

(11) The Reason

" The Reason is the mentioning of the Mark (or middle term, M.). That which accompanies the probandum' is found in its general nature (sāmānvena)* everywhere' in what is like the probandum, and is always absent (asad eva,-absent only, and never present⁷) in everything opposite to the probandum, is called a Mark . and the mentioning of this is the Reason*. For example, 'because of possession of movement''

scaryddarman, 5, rauce than ior saanyddarma, 1° 500 eelow, pp 100 ... The particular smokes on the hull is not present in the hearth: but smoke as such, dhumatsena,--in its universal nature---s present I cannot explain screats 'everywhere' ' the next clause states that M need not be found geographere in XP, cases like S (sepakse)

Ma need not be found everyware in Ar, cases into 5 (separa-y) '1 e. in the stpake X non-P. 'apadeda The word, as it happens, is stymologically identical with the Greek apadesus · and the Fasteria use of it has some resemblance to Aristolic's use. It figures in the lasts of innirgukti's, but in different senses. Annous suce. An indices in the link of thereguets 7, but m dimeters between Kanthys understands by it merely "citation"-coom adds dia try apadeda). Saferts green it a measuring closer to Fasferika usage anema kärent "historem sity apaddedb, ystähdpadisgiste machineraga na dietma" historedhate. "apadded consists in assigning a cause, og 'by taking machers the accumulation of phisgm in presented "...

^{&#}x27;It seems best to give the renderings which have been used for the corresponding Nasyayika terms-pratisfia, hetu, udaharana, upanaya, nigamana

¹anumeya. It has the usual double meaning—neither S nor P, but SP This is clearly stated in the next clause—the probandum is the Subject, S, qualified by the Property, P : or the sadhyadharman qualified by the sadhuadharma

[&]quot;The rest of the paragraph deals with the Fallacious Propositions.

and is translated below, p 216 'anumeya. Here the meaning is doubtful, but I think it stands for södhyadhermin, S, rather than for södhyadharma, P See below, pp 188 ff.

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 qualities ' being found in everything like the probandum. 'possession of movement' in not-all (i.e. some) things like the probandum': and is-in both cases-always absent in that which is not substance. Therefore the mentioning of these is the Beason.

(At this point occurs the long passage dealing with Fallacious Reasons, which is translated below, p. 199.)

(iii) The Exemplification

" 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 character², is constantly ac-companied' by the probandum⁴ in its general character (anumeyasāmānyena lingasāmānyasyānuvidhānadarśanam): for example, 'what possesses movement is seen⁵ to be a substance, as an arrow ' (uat kriuāvat tad dravyam drstam, yathā śarah).

"And exemplification 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 Exemnlifications, and has been translated below, p. 220.)

"Thus both forms of valid syllogism are exemplified-sapaksaikade-

1 This bola rorms or value synophic are econjunce-apparamate-destribution of the second synophic and synophic are applicable "Beau of a babyo, is to be below, is a synophic and the synophic "neuveliding means" obselence, 'secting conformably to 'sridhara gloses by siddynapper anugenal 'aramenge here clearly stands for sädbyadharma, P "The word offer as is againaty used both by Vätrykana and Tradas-ter and offer as is againaty used both by Vätrykana and Tradas-ter and the synophic and the

tapäda in the formulation of the uddharana or nidarsana Cf dretanta and nidarśana The word seems to underline the appeal to experience, as Vštsyšyana does when he says pratyaksavişayam uddharanam drztenddrztasid dheh

(iv) The Application

"The Application (anusamdhāna) is the bringing to bear (anvānagana) on the Subject (anumeya)' of the Mark, in its general nature, as seen (ārţā)' together with the Property (anumeya), in its general nature, in the Example. That is to say', 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 dharmandirateenābhikita), so that its competency to prove the conclusion 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 (sādhyadharma): ' and even so is wind possessed of movement' (tathā ca vayuḥ kriyadān itb)."

^NNorm.—Prassatapada is trying to find for the fourth member of the syllogism is 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 partimized), that, whereas the Reason states that S is M (pakedharmata, derityalthagarhāna), the Application states that S is M-which-in-F. Quarimarás rityaulthagaihana).

Sridhara however gives a different explanation. He argues that the second member of the syllogism merely mentions the *heiu* or reason *in itself*, and does not state that it is a property of the subject—*heiuracanam heiusaarüpamätram kathayatı*, *na tasya pakşadharmadlam*. The members of the "*bre*-membered statement are answers to the successive phases

^{&#}x27;onumeys is here used in two different senses-first as P and then as S-in one and the same clause. Similar cases of the ambiguous use of soldhys in a single clause could be quoted from Väryäysna

^{*}See note 5 on preceding page.

[&]quot;Praisstapids has a habit of, so to say, commaning on his own ultrances, whole sometimes leads one to suspect that he us cuing and commenting on an earlier 'edrike' Uddvokkars has the manneram (if that is all it a) in an even more marked form, so that in e.g. Dr. Jabit 'standaison it will often be noticed that two consecutive sentences say exactly the same thing. Striking says endokars evenous

of the hearer's ' desire to know' (ākānksā, nināsā). After the mention of the thing to be proved the hearer first desires to know what the instrument of proof is (sādhane bhavaty ākānksā) · and this desire is satisfied by bare mention of the middle term. When the middle term or reason is known the hearer desires to know what constitutes it a middle term or reason, i.e. he desires to know its cogency or competency (sāmarthyaiināsā) : and this is satisfied by (a) the statement of inseparable concomstance (avinābhāva) 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. according to Sridhara · so that he denies the necessity of paksadharmatā in the usual sense (S is M), and identifies naksadharmatā with what Uddvotskara calls parāmarša¹.

This helps to explain a massage in Sridhards comment on PSik post (NX poll 119 to 16). He says there that nut he care of inference for onself the only factors accessary to the inferential knowledge of P are the expression of M, and the remembrance of the necessary concentry used to be observed in the same strain the same strain of the same strain the same strain of the same strain st

It is further objected (2) that if parimetric plays no part in inference for one-set, from the 'Application' of fourth member of the 'Sylogram' will have nothing to express, and so will be without a function. The answer given is that, in the case of inference of a mother the resudence of M in S (pickadhermates) has not been set forth by the other members, and that the application has the function of stating packadhermates

That is, in the case of self-hiermaften there is no need of a separate movement of thought corresponding to the statement that S is M which n-P because the actual experience, here and now, of the M, determines the reference of M to the here-snahows B But in the case of partirithamments, M is not experienced here and now (i = m 8), but basely mentioned in the second member. Its application to S must herefore be definitely stated and this is done in the fourth member but is stated now, in the fourth member, it is a statement, to merely that S is M, but that S is M which-P.

is a statement, not merery that of an , not that of an arwindowned. The obscurity of the presege is partly due to the phrase destiguingperformeria. In the later terminology destiguinggiftans is pakeadhermatic, while the partements as called iriguinggiftans fitchars, it (think) returns to make the distinction between pakeadhermatic and partements so that the destitive and trifugenthat become identical for hum. Preference of the second member of the syllogend 's statement that in the second member of the syllogend 'the competency of the reason to prove the conclusion is a system apprehended '' is brought into line with this account by saying that this compentency consists in (a) positive and negative concomitance, and (b) ' paked dharmats' —the competency is then unapprehended in the second member because the two elements are stated subsequently in the third and fourth members

This account is perhaps rendered plausible only by the fact that in Sanskrit the second premise (the Reason) is stated in a single word, instead of m a clause as in English the causal able of an abstract noun taking the place of a causal clause. If we substitute for the word krajacitati the clause 'because if possesses movement', it becomes obvious that the 'bare mention of the middle tern' is in fact impossible,—we caunot mention it without referring it to the Subject: that is to say the statement of the reason is necessarily at the same time a statement of 'phisoflaritat', i.e. a statement that S is M_1 —Sridhars's position is impossible simply because a member of the syllogism must be a proposition. He quotes, however the authority of the Nyāyabhāgu in support of his account (NBh p. 44 1 17 asati hetau kasya säähanbāhæde pradarsyste'. NK p 250 1 23)

Boddames has definely in orpinang Predestapids's phrase ansmegendersmeath-decode with the strift modifies of physicar and the s way as to suit has over account ... Hele the string of the string association of the string of the string of the string of the saddheek katheth... By the Statement of the Reason the mark has been mutunode as the reason cally so far forth as it is in the probadiem (P m general, DP) to the excitoment of any particular thing its customent in a secreted This is assorted in the middresm, of in the approximation excitoment in the statement of the middresm, of in the approximation excitoment is assorted in the middresm, of in the approximation excitoment and the 'second particular them of the 'second particular the 'second particular the interval of the 'second particular the 'second particular the statement of the 'second particular the 'second particular they are and the 'second particular they are and the 'second particular they are and the 'second particular they are an only be stated after the 'second particular they are an only be stated after the 'second particular they are an only be stated after

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' "?

(v) 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

cation, the function of which he doclares to be 'the estimate that the probase resides in the same locus with the probandum '(sldhanabhilisiga dharmang sldhanabhilisiga dharmang sldhanabhilisiraga that NBh p 45 4)

It must be admitted however that the parage at p 41 presents difficulties The seatency additional protein-sheap difference or protein-sheap difference is a seatence addition of the protein-sheap difference is a seatence additional seatence and the seatence additional seatence additionadditionadditis additionadditis additionad seaten

At $\frac{1}{2}$, 43 1 The arys that the Acte also has two forms as well as the addharman and the upenops (decoddarge paner Actor derivations) of discovery approximation of the area of the addharman and the upenops (decoddarge paner) in the word containers and the addharman and the ad

"Pringhamaya The work programma-has the measure of revines or repeating siter some one else (26-W) Striklars's gloss is eddiyadhermange dharman programmayah, programyadhidhaman yana secraman Arget ste programyad, i e it is the proposition in which we come back to be assertion of P as readomy in S.

Protheman sékisan akhiduan, na tu lan nu'ntam presinkenderena, adiyaaddher akhidati. Tangondarish katau, kathu ca hada Smerkhye. natoopha presiyennakyana kripata (dirilaran). The presinga is the Gradu problema, the presiyennakya na the sumpersama. The Thoreton resiyaara problema, the presiyennakya na the sumpersama The Thoreton resiyaara and after its organoy (almorithya) has been sel forth in the Thrid and Yourth Mundow-Investidiarengopressay hada tearing katin (kat). 103). to say,' the Conclusion is the re-assertion of the Proposition for the purpose of producing through a completed syllogism (parisamäptena edikyena) certitude about what has been enunciated as the property of which knowledge is 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 (paresām hetvādībhir āhtasaktīmām). The Conclusion is in the form 'Therefore it must be a substance ' (tasmād dravyam ena). (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 (tadarthaväcakatuam nästi).

'more suo, he glosses his own words. See above, p 170 n 3.

*Stidhars glosses by het@daharsnopanayar arayaoar hetos trairüpye dariate samjälänumeyapratpatistämarhydnöm. But Prašstaphäa may have meant by daris the sparbologoal tendencise or potencise produced by the premises— who have now formed the mental dispositions necessary for the reception of the conclusion as a conclusion."

"Each member has a separate meaning or force (ortha) which it is peuting propose of function, (ortha) to covery No member can pet form another member's function. The function of each member terminates net expression of its own meaning-wratifications' seased by protochward the sease of the sease meaning-wratification of the sease regime in the sease sease and achieving a relations as of parts is a whole. But meaning-inclusion of the sease, and achieving a relations as of parts is a whole arithmetic occurve the unitary meaning-another parts is a whole, we arithmetic occurve the unitary meaning-another parts is a whole, arithmetic occurve the unitary meaning-assist perturbation and parts and the sease and achieving a relations as of parts is a whole, arithmetic occurve the unitary meaning-assist perturbation endormality arithmetic protochastic data seases is and achieving a sease of parts is a whole.

The difficulty of assigning a separate function to the Conclusion, parallel to the functions assigned to the premises', come out clearly in this discussion. For after all he has to admit this it is the premises which, in addition to their separate functions, somebow also achieve the function of converging the timitary meaning. And he does not make it clear how Nor does the Conclusion seem to have any special function, ance on Nor does the Conclusion seem to have any special function, ance on the state of the second second second second second second objection that Prestateplied deals in the next sentence)

Visayšyana says " magamana has the force of magamyants annea. that is to say, the four other members—Proposition, Resson, Examplification, ad Application—" magamgants annea skatra" are made thereby to comenico one point". Nigamyants means semarthyante, are made applicable or 'have then' functions brought together ': or eles cambadayante, 'sr. "The objection that the Conclusion need not be stated because its purport is already conveyed by the premises proves too much i 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 (tarsind advariativith)."

brought into unity " In other words, the Conclusion is the expression of the unity of the premines (NBh p 44 || 2-3) Later on, however, he has a phrase ciparitizeparatograparticelifthrake singunance (p 45 | 3), which access to be the green of the special function later assigned to the Conclusion, -that is of deriving estigratizations and behin strangunation.

"Grinbars represents the objector as holding that the aggregate of continues which produe knowledge are the same in informed for another as an inference for oneself, the only difference heng that in the latter this set of conditions a sapplied by conself, while in the former it is communative by another. In both cases this set of conditions, viz, the Mark possessed formations on the Subject and pointres and aggive concontances with the Property (subject/armsdiresjaptire/opjeneses ingen), leads to the inferantial knowledge. What need than of stating the Conditions?

He represents Prakstspids as replying that it is the cogency of the Mark, and not the thing to be proved, that it communicated in the free-mambered statement. Now this expective of the Mark does not consult by examples, the stage attention of the state of the stat

(The classical Navyšnika teaching of the perioraripoperane Actu is, I thin's, not to be found in Pressatspika The artificiality of finding a function for the conclusion is true, is obvious and the assertion can only in this case the conclusion is true, is obvious and the assertion can only be an ipse dist-though Sridhars speaks of the conclusion as setting forth-'opersite permagnetishesgrinklase pression of the conclusion is setting for the 'specific specific setting and the setting for the set of the setting for the set of the set of the setting for the set of the set

As to the suggestion that the bearer may be left to supply one or more premises, findhara replies (1) that 'inference for another's not addressed to the instructed, and (3) the form of the 'syllogum' cannot be settled in accordance with the degree of understanding of the person addressed; for, on account of the difficulty of getting at other people's mental processes. Prasastapāda's syllogism.—Collecting the illustrations of the various Members as given above we have the -syllogism :— Positive Form. Negative Form

1. Wind is a substance. dravyam	-
vayuh	
2 Because of the possession of movement. krivavattvät.	
3. What is possessed of movement is found to be substance : as an arrow Yat kriyāvat tad dravyam drstam : yathā	What is not sub- stance is not pos- sessed of move-
-éarah.	ment · as Being. Yad adravyam tat kriyīvan na bha- vati. yathā sattā
4. And even so 18 wind possessed of .movement. Tathā ca vāyuh kriyāvān.	And not so is wind not-posses- sed-of-movement Na ca tathā vayur

5. Therefore it must be a substance Tasmād dravyam eva.

This formulation differs from that of Vätsykyana 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 avoid (what western logic would call) an undistributed middle in the positive syllogism and an illicit process of the major in the negative syllogism. This

nıskrıvah

ii is impossible to say that just so many premness will produce understanding while pasts on many will fail to produce it, an any partoniz-case—ma co preiptégiespa kysigi ange preipseir skysts mådifi dakpam aregoritanpreiptégiespa kysigi ange preipseir and the sature and and and and an understinder de managadati (MK p 203). 100 He quoies a cloke from an understinder do the disk of not the nature of the presents of whom it is allowed he nature of the thing and not the nature of the presents of whom it is number of the should probably express the same thing by saying that the number of premises is determined by forgets and not by problogical transport of the start of the start of the same start of the previous problem on the start of the number of the should probably express the same thing by saying that the start of the s

'vidhi' or fixed formula for the Third Member is characteristic of the logic in which avirābhāva and the trairāpya were the leading conceptions. But these conceptions are foreign to Vātsyāyana's logic, and his Exemplification has not crystallised into a 'major premise.' He states his svilogism thus :--

Vātsyāyana's syllogism.

Positive Form

Negative Form.

1. Sound is transitory anityah fabdah.

2. Because of having the character of being originated. utpattidharmakatnāt.

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

Substances like soul which havenot the character of being originated are eternal, anutpattisharmakam ätmädi. dravyam nityam drstam.

4 And even so has sound the character of being originated. tathā cotpattidharmakah śabdah And not so is sound a thing which has not the character of being originated. na ca tathānutpattidharmakah sabdah.

5. Therefore, because of having the character of being originated, sound is transitory. tasmad utpattidharmakatavaid anityah sabdah.

It has been suggested' with some plausibility that the tatha, 'so', of the Fourth Member was originally correlative to uatha, '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.
- 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 system³ of medicine. The example³ of syllogism there given is .- nituah purusa iti pratiinā; hetur akrtakatvād iti: drstāntah akrtakam ākāśam tac ca nituam; upanavo vathā cākrtakam ākāšam tathā purusah; nigamanam tasmān nitva iti .

Caraka's Syllogism.

- 1. Man is eternal :
- 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.

Perhans this gives us the explanation of the ca in the Fourth Member: which seems to have been a primitive part of the formulation of that member'.

But it was always implied in the fourth

^{&#}x27;Ketth ILA p. 87 He says that the form of the Fourth Member was "originally presumably tathayam "-instead of tatha cayam. Both Vatsyayana and Pracastapada insert the ca in the Fourth Member - and in the

It has been said¹ that for Vätsyäyana inference was still really argument from analogy.-It is true that Vātsvāvana'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 Prasastapāda or for some predecessor of Prasastapāda," and it marks a very important development' in logical theory. But at the same time Vätsvävana 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 (sādhuasādhanabhāva) 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 (udaharana or Third Member) is to show forth the probans-probandum relation as subsisting between the two qualities (M and P) in one instance'. The difference between sophistry and reasoning is just this, that the sophist opposes true reasonings by arguments based on arbitrarily chosen likenesses and differ-

"I am not sure that it was a development in the right direction, however.

*NBh p 45 l. 2 on NS I 1 39 uddharanena samdnosya viparilaeya v3 eddhyaya dharmasya iddhakabhdoseacanam heloarthah dharmayoh eddhyazdhanabhtepardardanam ekstordaharangathah

^{&#}x27;Keith ILA p 27

^{&#}x27;se, the formulator of the foreigns, where he may have been. It seems to me that the conception of the foreigns as a important as the motion of 'universal connection '(semablikes).-the 'dasovery' of which is sometimes represented as being the Grant conservement of Dhakaga or of Preferingeds. This ferently constitution the Cannon of Byllogum for Indua Rillense, which preveded it to the evolution of logical theory 'The 'sent' and 'ensukéntike' failactes contain at any rate two of the Canons, by implication.

ences without having established in his example the existence of such a relation of probans-probandum between the two properties (M and P)': whereas a genume reason is a property probatice of what has to be proved (sädharabhätadharma) and not a mere similarity or a mere difference (sädharmyamatra, raidharmyamatra). Indeed the leading motive of Vätsyäyana's logic might be said to be the assertion of the distinction between the true reason, as probative, and the sophistical reason (jätti) based on mere fortuitous similarity and difference⁴

SECTION 4. TRAIRUPYA AS THE CANON OF SYLLOGISM

Praśastapāda's Bhāşya, page 200

Inferential knowledge is called *laingikam*, *jfänam*, 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 (*lingan anumapakam*) is characterised in the following verses cited by Pradsatandia '--

yad anumeyena sambaddham prasiddham ca tadanrite tadabhāve ca nāsty eva, tal lingam anumāpakam viparītam ato yat syād ekena dvitayena vā viruddhāsiddhasamidiaham alinaam Kāšyapo bravīt.

^{&#}x27;loc cit i 7 avyavasikäpya kkalu dharmayoh sädhyasädhanabhävam udäharane jäisedä pratyavatisihate vyavasihite tu khalu dharmayoh sädhyasädharabhäve dysiänte grhyamäne sädharabhätasya dharmasya hetutvonopädänam, ne sädharmyemäitesiya na vaidharmagamäitesiya vä

pédmam, na zénémergenérése is, észémérése a szekarméginetnetése a seszende m he sériese te he discussion d'acobatiska segrements (séta. NS V i-forty-three sétiers te he type whoch formuled the summary of against apphasical dialecto d'he type whoch formuled the summary of dialecto as apphasic was los much in harmony with the same of Gainans or to sittere has steinton². I, t think, unséssing, Gainama derotes so much graces to the sophistic was los much in harmony with the stein of Gainans or to sittere has steinton². I, t think, unséssing, Gainama derotes so much graces to the sophistic was los much in harmony with the taste of Gainans or destate hospital. How diversite the Nagipte's tatick was as perhase evidenced by the fact that the sétuposéde gave place to the systémeséde, and that Biedelne loges adopted Nagipte promotion.

"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 doubtful. Thus said the son of Kaśvapa ''

The 'son of Kaśyapa' is presumably intended to be Kapāda, the author of the Vaišeşika Sūtra' but there is no authority in the Sūtra for attributing to hum the doctrine of the Trairāpya, 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 Pradsatapāda cites the verses

A similar doctrine is expounded by Dinnāga in the line from his *Pramāņasamuccaya* cited by Uddyotakara and by Vācaspati Miśra¹

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 this becomes anumeyo sattram era : sapaksa eva sattram - asopakse colsattoam eva..." The three characters of the mark (trairūpyam 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 'sipaksa'), 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 to subject of the inference in respect

[&]quot;NV p 58 1 2 NVT p 127 Vidyābhūşana HIL p. 288.

^{*}Nyšyabindu p 104 1. 3. asapaksa here takes the place of the usual supaksa. anumeys that of the usual term paksa.

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 '—

- 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
- 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).
- The middle term must be only absent (never present) in things in which the property P is 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 Uddvotakara'. For the present it is sufficient to point out that the trairūpua, even as thus interpreted, makes the syllogism essentially an affair of examples.-sapaksas or concrete cases of P. and vipaksas 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 (sapaksa). and your opponent cannot point to any case of non-P (vipaksa) in which M is found (all adduced cases of non-P 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 trairūpua

¹It is clear from Uddytikker's cuttomen that Datage read storddyregs into a famula, powhy m vertice of he doctime that work have segmenteen through 'spher', i.e. embaum of all des H you say A is B, your real meaning may be that A is not-not-B-ord, if you prefer, that A is not-not B-or signi, that not-not A is B, or even that not-not A.

had in fact changed its meaning: so that the second and third canons still retained the implication that there must be *sapakşas* and *sipakşas*, and the habit of quoting 'examples' in the 'major premise' (accordingly called always by a name which implies *examplifaction.-eddkaraqa* or *nudaršana*) became ingrained in the Indian logician.

The trairūpya 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 Prasastapada. 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 saving 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 trairupua has now assumed the form in which the Nuāvabindu 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, examples as such do not show that M cannot be non-P (avinābhāvaniyama)—all that the examples show is that M as a matter of fact has been found (drşta) 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 (bhāyadarśana), which will always be exposed to the danger of a contralictory experience.

How a really universal connection could be arrived at was a difficult question, in connection with which is sometimes cited¹ this couplet from a Buddhist writer ²kārvakāranabhāvād vā svabhāvād va nivāmakāt avinābhāvanivamo, ' daršanān na, na daršanāt, '' 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 basis of frequent experience (bhuyodarsana) · but you cannot doubt a connection which rests in the causal relation (tadutpatti) or identity (tādātmua); for the denial of these relations is self-contradictory; and, according to the maxim later formulated by Udavana." ruäghätävadhir äsanka-self-contradiction sets bounds to doubt

But, whatever solution may be offered of the problem of the justification of an assertion of inseparable connection-the assertion that M 'is not without' P (avinābhūta, avinābhāra)-, the necessity of an explicit assertion of such inseparable connection in the trairūpua must have become plain, as soon as Vātsvāvana's innocent formulation of the udaharana* was exchanged for the sophisticated ' ridhi ' or statement of principle' which had the

*Kusumäiliali III. 7. quoted in Sarvadarsanasamaraha, loc est

"NBA. (on NS I. : 39) p. 44 11. 6 and 8. updationaramgrana, ice 'nt 'NBA. (on NS I. : 39) p. 44 11. 6 and 8. updationarankam stha-lyddi draepam antigam ity uddharapam euddharmyckis 'ps [in the negative 'orm of the argument] . . . anutpattishermakam dimdoi draepam uttarth diffiam. 'Fois and other substances which have the character of being produced are non-sternal . . The soul and other substances which have not the character of being produced are seen to be sternal"

9 2015 10 "Where there is smoke there is fire—in the absence of fire smoke also is absent". M is P, and non-P is non-M. yot programma and an is a start of the start of the start styre a proyetnamentary akan depiced, with a start of the result sityre approximate and an is a start of the start of the start of the start styre of the start of

^b og Sareadarásnasomgraha, chapter on the Bauddha system, first page Nydyakandali p 207 1.8 Tärkikarakrå p 82 Vidyäbhkasna HIL p. 376 (fooinote 5) identifies this couplet as from Dharnakitris Promäna-tärkika-kärkä.

^{&#}x27;yatra dhūmas tatrāgnur, agnyabhāve dhūmo 'ps na bhavatı. PBh p 205 1 10

effect of turning the udaharana or nidarsana into what we should call a ' major premise '.

In what has been said so far the later interpretation of the first clause of the trairūpua has been followed. according to which the first clause lays down the requirement of paksadharmatā, 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 avinabhava). But reasons a priori 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 Dinnāga's and Prasastapāda's statement of the first clause. Keith maintains' that Dinnäga meant by his first clause that S must be M, while Prasastapada meant by it that M must be P. His first argument for this interpretation of Dinnaga's meaning,-namely, that the Nuāyabındu interprets it so-, may be set aside. Later commentators always interpret older writers in the light of the notions prevalent in their own time and the same argument would also prove that Prasastapada's first clause means that S must be P: because in his case also the later commentator, Srīdhara, says plainly that he meant this3. But we can safely ignore here the interpretations which Dharmakirti and Sridhara give of Dinnaga

*Indian Logic and Atomism, pp 137-8. *NK p 2009 1. 23 "anumeyak pratuppädayisitadharmavisisto dharmi". Again p. 2001. 23 "anumayarättiena säähyaäharmanä".

the eternal is of volution is found to be non-eternal, like a jar found not to be the result of volution, like ether.

^{&#}x27;We may take sādhya or anumeya as an ambiguous abbreviation for either sädhyadharma (anumeyadharma) or iādhyadharmin (anumeyadharmin), in which case the ambiguity of the terms is an accident of language. Or to the earliest formulation of inforence, and that this ambiguity was subsequently realised-and that then the distinction between the sadhyadharma and the sädhuadharmin was drawn The latter supposition seems to be the true one

and Prakastapäda respectively.—Another argument which Keith uses is however a real difficulty for those who, like Stidhara, interpret Prakastapäda's animeyena to mean animeyadharminga. The argument is that in the second clause tadaroite must mean animeyadharmäneite: and it tad means animeyadharma here, then animeya in the first clause (which is denoted by tad here) must also mean animeyadharma'. The same reasoning could be used (though Keith does not make this application of the argument) to prove that Dinhäga must have meant by animeya the minor term, animeyadharmin; because tattulya clearly means 'like the subject, or minor term'.—

The opposite of this segument is used by Väsyäysna on NS 1. 1. 85, where he polito oit the two senses which sidely may have "sidelysmic of develdami, dharmereystor of dharmals idelarishigation, dharmereysto dharmi antipol kodde iti". The sitra is addispatialarmengi tadharmahadhyadhirmen, hoesawarth, "dorps and sites is adding here must mean hadhyadhirmen, hoesawarth, black addispation addispatial antipol demmin mit be horses taddharmahadhad.

Katth's argument is, I thuck, not conclusive, because it depends on the presumption tast a term cannot be used in two senses at once. It is possible that the sense of assumage was left, delibertably or not, indeterworld have its assess fraid an one or other direction by the phrase is which it occurs. If you use the phrase (atflay—as Dinking did—thm to a transform one or other direction by the phrase is which its occurs. If you use the phrase (atflay—as Dinking did—thm to a transform one of the direction by the phrase is the phrase (atflay—as Dinking did—thm to a transform of the attraction by the phrase is the phrase (atflay)—as Dinking did—thm to a transform of the attraction of the direction of the attraction of the transform of the transform of the transform of the attraction of the attraction of the transform of the transf

Is should be mentioned in this connection that the first clause of Dinfays' torrefrom a slavey architect $M_{\rm D}$ of the first clause of Dinfays' torrefrom the second state of the source proves nothing as regards the source meaning of Dinfays' torrefrom Dinfays U dinfaystars would assumely critical binding in the light of the meaning which has here Buddhait followers read into their answers the objection which U dinfaystars through against Dinfays in this connection, so if it were a critican of Pratestapida as of Set X p. 500 1 34 f. (hings 440 Seems a concision of Prints p. 56 h. 6).

But as a matter of fact Praśastapāda himself in another passage' uses the term tatsamānajātiya,—which is of course synonymous with Dinňāga's tattalya. And in the light of this passage the argument from tadaneite 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 Dinňāga meant by his anumeye sadbhāvab something different from the meaning which Praśastapāda attached to the phrase anumeyena sambadāham : no is there, in these arguments, any proof of what meaning the two authors did attach to these bhrases,

Turning to Prasastapada's explanation² of the phrase anumeyena sambaddham, and to various other passages' in his Bhāsya which connect with this topic. we find that while his explanation supports the interpretation of anumeyena sambaddham as a statement that S 18 M (pakşadharmatā'), the other passages make it sufficiently clear that his logic embodies a doctrine of universal connection between abstract ' terms, ' M and P (anumeyasāmānya, 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 anumeyenärthena deśaviśese kälavisese vā sahacaritam, anumevadharmānvite cānvatra sarvasmın ekadese vā prasiddham, anumeyaviparīte ca sarvasmin pramānato 'sad eva, tad aprasiddhārthasyānumāpakam lingam bhavatiti. "That which at any particular

¹PBh p. 237 | 16-18.

^{*}PBh p. 201. II. 18-20, cited and translated by Keith p 139.

PBh p 206 in 10-14, p 207 i 16 ff, p 246 iI. 15-16; p. 247 (ananugatantdardandbhdea ii 4 and 5, and asyācritansdardandbhdea ii 7 and 8; p 249 iI 7-11

¹⁰ ¹¹ ² do not see how it can be said that "the wording confirms the very that the first condution refers to the relation of modile term and major, not of middle term and mbject the thing to be inferred is the first on the mosthese thing to be inferred in the first of the most is the first best of a summers. Thus interpretation of animegeners there are seen to use the begind equation. I cannot see that the addition of arks to ensure and disremese and disremese matted of arthese.

place or at any partneular time is concomitant with the probandum-bing; which elsewhere also is known to exist in things possessing the quality which is to be proved, whether existing in all such things (i.e. sapakgas, 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.'''

Taking the language of this passage at its obvious value, we should surely not hesitate to interpret Prakastapäda as meaning that anumeyena sambadaham is an assertion that S must be M. The word anyatra is glossed ' sapakse' by Sridhars and seeme clearly to imply that the first clause has had a reference to something other than the aganksa' and this something other than the sapaksa can only be the paksa. Moreover the plarases deśarisese kalawisese va 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 *trairūpya* was a legacy inherited by Prasastapāda and Dinnāga from an earlier phase of

Wind is substance Because it possesses movement, and Wind is substance Because it possesses qualities

The latter middle is present in all things homogeneous with the probandum, i.e. all substances possess qualities. The former middle on the contrary is present in scene substances only, eg. did, kila, and dima are reckoned as substances, but they are not capable of movement

¹⁷The only addition made in this account is that the moldle need not be present in all applicast -11 is sufficient if some XP's are found to be M (in the terminology of our sylloguess, ithough sill M must be P, it is not necessary that all P should be M). Then the last of Nine Types of Sylloguess green in the Nylpispersets, and in the Promansemencosys of Dinhafys, contants two valid types, according as all XP's are M, or some XP's are M Prefeatabels mentions this again, and gives as examples the two valid argumenta-

logical reflection: and that it could not from its very mature adequately express the universal connection in which they both found the principle of inference¹. It is possibly a mistake to suppose that they tried to read a statement of universal connection into the *first* member of the *trairūppa*. Is it not more likely that, since they made the *nidaršana* the vehicle of the statement of the universal connection, they would attempt to find the statement of the necessity of a universal connection in the second and third clauses of the *trairūpga*, which are obviously concerned with the *nidaršana*?

SECTION 5 CLASSIFICATION OF FALLACIOUS MIDDLE TERMS

Twofold classification of the Vaiseşika Sütra

PBh. p. 204. Praśastapāda devotes a brief paraand pp. 238-9. graph to the miterpretation of *Vaišeşika 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 trirūpalingād ekena dharmeņa dvābhyām vā viparīlam, tad anumeyasyādhigame lingain na bhavatīty e'ad evāha sūtrakārah Aprasiddho 'NAPADEŠO 'SAN SAMDIODHAS Ceti.

"But a middle term which differs from the mark with the three characters as just explained, in one character on in two, is not a mark which proves the probandum: this is what the author of the sātra means when he says 'the false reason is the unproved, the unreal, and the doubtful'".

^{&#}x27;Bridhara says ''avinābhūtam iti jhānam yasya nākti, tam prati dharmiņs dharmasyānsayavyaistekavato 'pi lingatvam na velyate''. NK p. 205 1. 2

It seems clear' that Prasastapāda misinterprets the sitra : for the next two sitras give instances of two classes of fallacious reason, namely, of the 'asat'--yasmād viçāni tasmād atvah, 'it is a horse because it has horns'----and of the 'samidigāha'---yasmād viçāni tasmād gaub, 'it is a cow because it has horns : ' and if the sitra had intended three classes of fallacious reason it

But Prasastapāda p 238 l 20 gives this as an example of viruddha. And this is a natural way to understand the example The 'asat' of the sütra may in fact=the viruddha. I do not think that the Sütrakāra recognises the 'asiddha' class of

I do not thunk that the Sütrakirs recognises the 'essédic' class of fallesy at all the 'ess' means an argument in which the conclusion (not the middle term) 'is not' just as the semisinghe means an argument in which the conclusion (not the matching a doubled). The essentiation of the second second second second second second second second for which these herms is not a hore. That is to say it is a case of the evenddhe or 'contradictory' reason

Similarly the Nyleputite does not recognise the 'enddha' fallagy ; not does Värkyvana it begins to figure in Frastarlad. The evidence then is that 'anddha' is a relatively late concept This seems to sarry with it the implication that polyadiarradi was not emphased in the earlier logic which again means that the first clause of the trairing can hardly have meanin for its earliest formulators proceedy what later commentators understood it to mean, yat, the requirement of 'palepa' has, whist del thought I have argued above that it typobably due to mean the requirement that 'all M must be P'. And there seems to be no other alternative.

Yet perhaps there is an alternative. If we remember how vagou Vikryjana is about the function of the Jett or second member of the syllogram, we may well expect a similar 'vagonesse in the meaning of the summage' its commegene assembly and the second member of the furthype. The formulator of the furthype had not made up has mind about how its did not as 8 schick the commonly and the second member is did not as 8 schick the commonly at 10 min and 10 min between the medorates usurged its function of stating the universal commission. Precided from developing this sense, it developed the other senseresense is a schick the common sense in directly the sense 'member and the sense is and the first classe of the transform a requiretapida but I think the conception was still find, into the sensetion the during the inducing the sense will find, in the the sense tapida but I think the conception was still find. If the has

¹Jacohi, Indeche Logic p. 481 Keth ILA p. 189, and 183, Faddegon, Yaidenko Spriem, p. 503. Feddegon notes that "Chatrakabus Tarkkändäres pendagidal dangedaden "The Soliton of the last word (engedade) in a warant laker than Prakatapäda's time, anco he does tor read 11. If was perhaps adde because the transition of splitting up the "effect" into two sitras remained - and, when thus split up, Prakatapäda's interpretation *a* no longer plausible

would presumably have exemplified the third also. Moreover Prasastapäda's explanation of aprasiddha as applying also to the fourth class, sädåhärang or anadhyacasita, which he adds,—is altogether improbable. It seemsalmost certain therefore that the sitra must be read un two parts—aprasiddho 'napadeśah. Asan samidigdhas' ca. "The doctrine of Kanāda as now restored to the text of the Sätra is perfectly plan: it states a definition of a fallacious reason (anapadeśa). . . as that which is unproved (aprasiddha). Of the fallacious reasons two species are mentiomed, the unreal (asat) and the doubtful (samidigdha), which correspond accurately enough to the later asiddha and sayaubhicžra''.

The phrase ekena dharmena dväbhväm vä became a source of doubt to the commentators at a later period, after Uddvotakara (or some earlier writer) had drawn attention to the existence of apparently valid middle terms which satisfy only two conditions of the trairūpya,-the kevalānvayin and kevalavyatirekin of the later schools. There is no evidence that either Prasastapada or Dinnaga had raised the problem involved in this distinction. But Srīdhara, commenting on Prasastapāda from the standpoint of the later schools, raises the question². He says that some hold that the kevalānvayin and the kevalavyaturekin (although apparently excluded by the trairūpua) must be supposed to be included among valid reasons in virtue of their establishment in the sister-*sastra* (i.e. the $Nu\bar{a}ua)^3$: 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

¹Keith, *ILA*, p 183 The amended reading of the suits is given in his footnote But his identification of *asat* with *asiddha* can be questioned. See preceduing note.

^{*}NK p. 208 1 15-p. 204 1. 23.

NK p 204 1. 17 atrake samänatantraprasiddhyd kevalänvaynah kevalasyatirekinad ca porgraha iti vadanti, apare tu samastavyatam laksanam vadanti, etc. The appeal to the aster-färza (the Nyäya, in this case) has an exily procedant in NBA, p. 16 1, 9.

ansayaryaturekin, which must satisfy all three conditions of the transpa: but it is only intended to apply by parts (cyssta) to the kevalianzaym and kevalaryaturekin: the former being valid if it satisfies the conditions of presence in the pakes and presence in the spakes (no vipake being available); the latter being valid if it satisfies the conditions of presence in the pakes and absence in the tipakes (no sapakes being available).

Fivefold classification in the Nyāya

The Ngaga Sätra (I. ii. 4—9) enumerates and define s 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 derived from Bauddha-Visiestika logic. The meaning of the sätra defining the last kind, kalättia, had lateady been lost in Vätzyägana's time', as is clear from the fact that he reports two different opinions about it. The identification of it with the bädhita-heträbhasa of the later school is a guess. It may be a correct guess : but Vätsyäyana himself does not even hint at any such identification.

(1) Sūtra 5. Analkāntikaņ savyab filgāraņ

This is the samdigdha or aniscita of Vaiseşika-Bauddha logic,—the inconclusive or doubtful reason. It retained the same name and nature throughout the history of the schools. Vätsyäyana gives the example : Sound

³This implies a considerable lapse of time between the date of Vätyäyana and the first systematustion of the Nydya. In his comment on I n 9 he ettes a couplet ...

yasya yenärthasambandho dürasthasyāps tasya sa

arthato hy asamarthänäm änantaryam akaranam

The meaning seems to be that when one word is connected by the sense with another, the connection holds good even if the word is far off (in the order of the sentence), and that jurisposition does not give meaning to words disconnected in sense.

If this citation could be identified it might provide valuable evidence of Vätayäyana's date. It has not yet been identified. is eternal because intangible'. The alleged reason, he remarks, is not confined to the one alternative (*ekatra arguasshitih*); or, it is too wide (*saha vyabhicăreya aertate*): for atoms (which are eternal) are tangible, so that there cannot be a *probans-probandum* relation in the supposed probative negative instance 'the jar which is intangible is *not* eternal, so that the supposed probative positive instance' the soul is intangible and eternal' is equally defetive. Western logic wold say : it is impossible to assert that *All* intangible things are eternal, and to draw the desired conclusion in BABBARA—

(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 sayabhicāra 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 alten to Indian logic : and the attempt to identify the two schemes of fallacy can only lead to confusion'.

The western formulat would fed that the negative natance is pure relevant and consequently would say that the objection brought sagants the present segment, on the ground that atoms attloogh elernal are single, as allogate out of place. For the fact, that some targuing the single data and the second segment of the second segment of the second second

Vätsyäyana sums up the objection to the argument under consideration by saying that both knids of example, positive and negative, are forthcoming, and that in both of them there is inconclusiveness'; and therefore the probans-probandum relation does not subsist here (divisidhe' pi drętänte vyabhicārāt sādhyasādhanabhāro nāsti). (3) Satm 6. SIDDHĀNTAM ABHYUPETYA TADVIRODHĪ

(2) Statea 6. Siddhantam Abhyupetya tadvirodhi viruddhaң

"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 Vatšesika 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 sûtra apparently intend a fallacy like the *iştavighātakrt* variety of the viruddha^{*}, in which the middle contradicts some implication of the position which it is used to prove.

Vātsyāyana says :---'' For example, 'This particular form of reality (*rikāra*) ceases to be manifested, 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

'See the preceding footnote.

"See p. 203 ff and footnote to page 204, infra.

⁽addammy) and cases of non-M (sudhammy); not cases of P (sepaker) and cases of non-N (repaker) and if they from that M did not extent to non-P (subhammyoh ne sysbhurgaris) and that non-M did not extent of (sudhammyoh ne sysbhurgaris) and that non-M did not extent to the subhammyoh ne sysbhurgaris) and that non-M is non-M lists, but annod as establishing a real connection of M and P. And for thus purpose its arelevant to find that non-M s non-P and it is an objection to be theory that M as connected with P if we find a case of son-M which tangble (non-M) are nor-related setters) (P). that setup. which are

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

The difference between the sūtra's meaning and the istaviahātakrt 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 Vätsyäyana, is that the defendant proves of one subject in a pair of syllogisms two qualities which cannot coexist because they are mutually contradictory .- namely. cessation of manifestation, and continued existence (astitvam cātmalābhāt pracuutir 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 (viruddhāvyabhıcārin) of Dinnāga : but (assuming that one or other of the middle terms is false) we may follow Prasastapada in classing it with the viruddha variety of Fallacious Proposition : in which case it is really the badhitahetvabhasa of the later schools'.

(3) Sūtra 7. Yasmāt prakaraņacintā sa nienayārtham apadistaņ 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'."

Vatsyäyana's example is: 'Sound is transitory, because we do not find in it the characters of a permanent thing, and things 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 quahties of transitory things are not found are permanent'.

[&]quot;See infra p. 212 with footnote

The argument to prove either alternative 'begs the question'¹. But comparing the language of Vätsyäyann with that used by Praśastapāda in speaking of his asādhdrana or anadhuavasita, the reason which leads to no conclusion (adhuavasāyam na karoti), there is no doubt that Prasastanada conceived himself to be merely interpreting the Nyāya-sūtra's prakaranasama fallacy in his own anadhuavasita He is almost certainly writing with reference to Vätsvävana. Both of them make the same distinction between the sanuabhicara (samdiadha), which Vātsyāyana here explicitly calls samsayasama. on the one hand, and the prakaranasama or anadhuapasita, 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 Vātsvāvana savs. *uatra samāno* dharmah samśayakāranam hetutvenopādīvate sa samsauasamah sapuabhicāra era · whereas in the latter fallacy there is a *rimarsa* 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 vimarsa, looking for decisive evidence but we do not find it (rimarsasya visesāpeksitā ubhayapaksavisesānupalabdhis ca) : and this state of affairs 'starts a question' (prakaranam pravartavati), but supplies no evidence whatever-not even doubtful evidence-towards a conclusion

It seems clear then that the affiliation of this fallacy is with the anadhyaoasita of Prafastapäda, that is to say, with the asādhāraṇa of the later schools : while the saryabhicāra of the Nyāya-saftra affiliates with the sādhāraṇa variety of saryabhicāra in the later classification.

¹For the jdts which bears the same name see p 517 below. The prekaragiasma-jdts protends to show that any argument whatever merely "starts the question' (prekareness presertayati), and therefore commits thus follacy.

It would be a mistake to equate it with the viruddhācyabitādrin of Dinnāga, which is the satpratipakṣa of the later schools.—a genume antinomy, where both arguments are equally strong though they lead to contradictory conclusions. Neither Vātsyāyana nor Prašastapāda will admit the possibility 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. Sādnyāvišistaš ca sādnyatvāt sādnyabamaņ

"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-hetvābhāsa of Prasastapāda and the later schools¹. The variety with which it corresponds is the *āśrayāsiddha*. The example which Praśastapāda gives (under the rubric anumevāsıddha, which = the later āśrayāsiddha) 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. Vätsvävana's example of sädhuasama 18 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?

^{&#}x27;This is pointed out in the Vytti on this states.

(5) Sūtra 5. Kālātyayāpadistaņ Kālātītah

"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 Vätsyäyana is: Sound is permanent because it is manifested by a conjunction (of bodnes), like colour (which is manifested by the lamp only because it was there '' all the time ''). There is 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 manifest 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, Vätsyäyana says, are not parallel : for in the case of colour the manifestation of the manifested quality does not go beyond the time of the manifesting agency (contact with light); cessante causa cessat effectus. But the sound is heard by a person at a distance after the contact of the drum and drum-stick has ceased, and so the production of the quality in this case "goes beyond the time" of the contact (samyagakalam atygeti), and therefore is not merely a manifestation . for from the absence of the cause follows the absence of the effect (kärayābhärādh). käryäbhäräh).

The meaning seems to be thus. 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 manfestation 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 sūtra, 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 sutrakara should give the fallacy which the Naiyāuika finds in it a special place in his classification of fallacies. But the meaning of the sūtra was already uncertain; and Vätsyäyana goes on to argue against another interpretation of it which identifies it with the niarahasthana described in V.n.11 under the name aprāptakāla, the 'mistimed' This nowever consist merely in failure to state the members of the syllogism in conventional logical order (avayavaviparyāsa): and Vātsvāvana 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 sūtrakāra would not have said the same thing twice, once under the head of hetrābhāsa, and then again under the head of nugrahasthana

Fourfold Classification of Prasastapāda

Praśastapāda's detailed account of fallacous reasons is given in the context in which he treats of apadesa as a member of the five-membered 'syllogism', under the general heading of 'inference for another' (parārthānu-māna)'---

"The account of the 'statement of the mark' which has just been given implies that a statement of an unreal, contradictory, doubtful, or inconclusive (anadhyavasita) mark is no 'reason' (anapadeśa)."

¹PBh pp. 238-9 It is a practical inconvenience of the distinction between sourthAmamana and pararthAmamana that it tends to lead to a double treatment of the same topic under different heads

(i) Varieties of the asuddha or unreal reason

"There are four kinds of unreal (asiddha) reason : unreal for both parties (ubhayāsiddha); unreal for one or other of the parties (anyatarāsiddha); the reason that is not really what it purports to be (tadbhāvāsiddha); and the reason that is unreal in respect of the subject (anumeyāsiddha)'. An example of the first kind (ubhayāsiddha) i.e. of a reason which both the defendant and the opponent regard as unreal, would be : 'sound is noneternal, because it has parts (sāvauavattvād)'.

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

An example of the third (tadbhāvāsiddha) would be mist presumed to be smoke when fire is to be inferred through the existence of smoke'.

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

NOTE -The Nyāyapraveša list is practically identical See Vidvābhūsana HIL p. 293 (=MSIL with this The Sloka-partika (anumana-particcheda 75-83n 93) uses the later terminology of svarupasiddha and asrayasıddha; and makes ubhayāsıddha, anyatarāsıddha, and a third variety samdiadhāsiddha, sub-divisions of both these main classes; thus avoiding the cross-division involved in Prasastapāda's classification.

"Musunderstood by Vidyäbhüşana HIL p 298 and by Faddegon p 541.

^{&#}x27;The obvious cross-division here is pointed out by Sridhars, NK p. 240

il 16 u⁻⁻⁻ ²The Mimämaska who maintains the eternality of sound does not admit that it is a product.

Animum strength of the stre argumentation". Darkness exists but it dres not exist as a possessor of qualities, i.e. as a substance.

(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, 1s 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' (hi) appears to explain why Prasastanada gives as an example of a contradictory reason the very argument which the Sutra (III.1.16) has given as an example of the 'asat',-which Prasastapāda identifies with asiddha. The connection of thought then is "The argument 'it is a horse because it has horns'. even if the middle term does not exist in the Sub ject (anumeye 'vidyamāno' pi)-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, i.e. it proves that the subject is not a horse " An unreal reason is not necessarily a contradictory reason, but a contradictory reason is necessarily unreal And it happens that the Sūtra's example of unreal reason is also an example of a contradictory reason. No sub-divisions of the contradic-

Division of the contradictory Reason

sion.

tory reason are given by Prasastapāda. The Nuāvapraveša on the other hand (a) Twofold Divi- gives four varieties under this head, while the Hetucakra-damaru doctrine (which is embodied in the Pramana-

samuccaya) shows two arguments which are classed as contradictory. The two contradictory reasons given in the Hetucakra are1 .--

Sound is eternal because a product

Sound is eternal because an effect of volition

¹NK p 941 l. 9 says that Pradastapäds's example corresponds to the second of these, its rubric being spakesikadedesptis (ie ii is foun-in some spakes, not all not all not horses have horse, but some have).

These correspond to the two valid types given in the Hetuadra-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. The fourfold division of the Nyāyapraveša includes the former of these two, but ignores the latter : and adds

three others¹.

The fourfold list is ·---

- (1) Where the middle contradicts the major— 'Sound is eternal because a product'. See above for this. The Solokaritka gives the same example, and describes this variety of vruddha as dharmabādha, i e. sublation of the major.
- (2) "When the middle contradicts the implied major" (Vidyābhūşaņa, loc cit.)
 - --- 'The eyes are serviceable to some being because they are made of particles, like a seat, bed, etc.'^a.

Kumārila gives this argument as an example of his sixth class, *dharmadharmiviseşabādha*, 1 e. contradiction both of a particular quality implied in the major and of a particular quality implied in the minor :

tadobhayavıseşasya bādho 'yam sādhyate yadā pārārthyam cakşurādīnām samghātāc chayanādivat. ātmānam prati pārārthyam asiddham iti bādhanam

¹Vidyābhūsaņa HIL pp. 294-5 = MSIL pp. 94-5 Keith ILA p 185. Sloka-vārtitka, anumānaparischeda il 96—107

¹Pärthasärathi Misra in the Nydysräfnäkara ad ioc. says that thus in the Sänkhys argument to prove that Parays is 'other than Prakyts. The svolutes of prakyts have reference to an 'other' The argument occurs ip Binkhys Känkä 17, and Gaudapäda gyres the example of the 'bed'

asamhalaparārthatve drete sainhatatā 'pi ca anahamkārikatvam ca cakşurādeh prasaigute. (Sl. Vārt. anumāna, 104—107.)

" It is sublation of particular qualities of both major and minor when it is argued that the eves and other organs serve the purpose of some 'other' because they are composites, like such things as heds. 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 eve 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 eve and other organs could not be evolutes from the ego-principle (ahamkāra), as the Sāmkhya supposes them to be, if they were not composites"".

The Sämkhya argument is a good one—it is simply the teleological argument. The world is a samphata. 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 Sāmkhya: 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-

¹NRA explains compositeness as consisting in the 'gunas'-sativa, rajas, tamas.

posed purposes inconsistently attributed to the immaterial principle are explained by the Sāmkhua as being in fact products of the material principle of 'ahamkāra'. Thus there is a double inconsistency in the Sāmkhua's use of the teleological argument to prove the existence of soul as separate from matter. (1) The function which he intends to establish as his major (dharma) is a function of a particular kind (dharmavisesa) i.e. purpose of the soul. But his middle (samhatatā) really disproves the particular sort of function which he attempts to prove by it, if aggregates 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 conceived 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 Sāmkhua 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 Sāmkhua as evolutes of a purely material principle, the ahamkāra, the egoprinciple. But the Sāmkhya 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'.

(3) When the middle term is inconsistent with the minor term. As :---

Sāmānya (generality) is neither substance, quality nor action; because it depends upon one substance and possesses quality and action.

¹Kath applies the term sprearbicket (*ILA* p. 185) to this arguments and the term is appropriate. But is not used in the followed rinke, and the sprearbic sprearbic sprearbic sprearbic sprearbic sprearbic how by highwords p. 118 11.7, where this same Schelkys argument is given. For Disarmativity is further remarks on the argument see *NB* p. 111.1.7 Ro bas defined eldys so widdly as to cover all that is implied in \mathbb{P}^2 ; and therefore he need not treat this splenghilash as a separate variety of outtradictory reson. It comes much user's account of the splenging of the sple

The statements here made contradict the definition of sāmānga 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 sāmānga was either 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 existence except as an instance of an argument in a logic manual.)

It corresponds however to Kumärila's third type, dharmisvarūpabādha; "sublation of the essence of the minor" —

ihapratyayahetutvād draryāder vyatiricyate samavāyam, yathehāyam ghaţa ityādisangatih.

(Sl Vart. anumana 100-101.¹).

"The category of sanaväya, 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 inherence is sublated by the middle term. As the example shows, locality is an affair of samyoga, contact. What is really proved is that the relation is not samazāya,—seeing that it is supposed to be an affair of spatial contiguity between substances.

(4) When the middle term is inconsistent with the implied minor term. As :---

Objects (artha) are stimuli of action, because they are approhended by the senses. (Vidyäbhüşana notes : "Objects' is ambiguous meaning (1) things and (2) purposes. The middle term is inconsistent with the minor term un the second meaning".)

[&]quot;This seems to refer to VS VII 2 26 [Samardyam cannot be the right reading.]

This appears to correspond to Kumārila's fourth variety, *dharmiviseṣabādha*, sublation of a particular property of the minor :---

> yac ca sattāvad ekatvam samavāyasya kalpitam tatra samyogavad bhedāt syād višeşaviruddhatā. (Sl. Vārt., anumāna 102-103).

"And because unity is supposed to belong to the inherence-relation, as it does to the universal "Being", there would be sublation of this character (of unity), because there would be a variety of relations of conjunction (i.e. the inherence-relation has been made parallel to the conjunction-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).

Kumārila says that some give a sixfold division of the virudāha, others a fourfold division, others only one kind : 'şodhā virudāhatām āhuś caturdhā vaikadhā 'pi vā' (SI Vārt., anumāna, 96).

He himself gives the sixfold division (1) dharmasvarüpaviruddha (11) dharmavisegaviruddha (111) dharmisvarüpaviruddha (112) dharmsisegaviruddha (12) dharmadharmisvarüpaviruddha (12) dharmadharmivisegaviruddha.

His examples of (i), (iu), (v) and (v) have already been given. The other cases are :--arthaoac chabdarūpam syšt prāksambandhā cadhāranāt, vibhaktimattvāt, paścādvat, svarūpeneti cāśrite asvarūpārthayogas tu pascāc chabdasya dršyate tena prāg api sambandhā asvarūpārthatā bhavet. (SI, Vārt., anumāna, 98--100).

You argue that a word has meaning even before its relation to other words in a sentence 18 grasped.---it has meaning as an isolated unit. svarupena. But the reason vou give, vibhaktimattvāt paścādvat. contradicts this qualification svarupena: for the meaning 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 Misra savs ad. loc., the vuāpti that is seen is between possession of inflections and the conveying of a meaning other than meaning as an isolated unit.-svarūpātiriktärtha

nıtyam ātmāstıtā kaiścıd yadā Sautrāntikam prati sādhyate 'vayavābhāvād vyomavad dvayabādhanam. (Sl. Vārt., anumāna 103-104).

Pārthasārathı Miśra explains · ''Space is merely absence of an obstacle (*dvaranābhāva*) for the *Sautrāntika*. And 'absence' being *nothing*, space has not even a being (*svarūpa*) · much less eternality ''.—So that .bsence of parts (*avayarābhāva*), as exemplified in space, contradicts the essence of the minor term (*dīma*, as something real) and the essence of the major term (*diernality*).

(iii) The doubtful reason (samdıgdha)

PBh. p.238 1.20 ff. "'The reason that is found in the Subject or minor (animeye san), and is common (sādhāraṇa) both to that which is homogeneous with and to that which is not homogeneous with the minor (i.e. is found both in sapakṣas, XP's, and vipakṣas, Xnon-P's), is a 'doubtful' reason because it is the cause of doubt (samdēhajanakatatī): for example, 'it is a cow, because it has horns ".

[&]quot;The argument belongs to the controversy of abhihitaneaysoids series anotabhihameads Bee NK p 231 1, 24, and Faddegon's translation of the passing on his Vasietika System p 492.

This is the sādhārana fallacy, which alone Prasastapāda 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 Slokavārttika: according as the middle resides (1) in all sapaksas and some vipaksas. (ii) in some sapaksas and all vipaksas. (iii) in some sapaksas and some vipaksas. (iv) in all sapaksas and all vinaksas

The stock examples, as given in the Hetucakra and repeated in the Slokanärtska, are :---

- (i) Sound is an effect of volution because it is noneternal
- (ii) Sound is a non-effect of volition because it is non-eternal
- (iii) Sound is eternal because it is corporeal'
- (in) Sound is eternal because knowable

The Nuāyapraveša list of six 'uncertain' i.e. doubtful reasons, is made up of the above four cases of the sadhārana, together with (v) the asādhārana, 1 e. a middle which is found neither with sapaksas nor with vipaksas. but only in the paksa-as 'sound is eternal because audible', and (vi) the *viruddhāvuabhicārin*, or antinomy.

Prasastapada will not admit that the asadhāraņa can be a samdehajanaka, a cause of doubt; and therefore he introduces what seems to have been a novelty in classification, by setting up a fourth class, the anadhyavasita or reason which does not lead to a conclusion, to cover the asadharana. He further refuses to admit the viruddhāvyabhicārin as a variety of the samdiadha, suggesting that it is either a case of the asadharana (and so anadhyavasita), or else non-existent. Kumārila clearly accepts the threefold classification " of the 'samsava-

^{&#}x27;or, because incorporeal.

or, possible incorpores. "SI Fart, anumära, 64, trayah sanksayokstoonh sat säähus tada-bhöse 63. dedöhyäm nyaorita ens ca; docu orruddhärihasambadihau yäv ektreskädelmi. "There are three donbihi reasons, eihus a reason fullies point honoristictory qualities, fond in one and the same thing".

hetu' as sādhāraņa, asādhāraņa, and viruddhāvyabkicārin; bu he adds ' that although some reckon the viruddhāvyabhicārin as a separate class (jātyantara) othere hold that the two reasons taken separately (amisena) form a case of sādhāraņa; while taken together there is want of connection (ananvaya). Pārtilasārathi Misra explains the latter clause to mean that, taken together, the two reasons are a case of asādhāraņa, for the reason that they are not found together in any other instance. This is Praśastapila's view and Kumārila may be referring to him here

The example given by Kumārila is the antinomy 'Air is perceptible, because it is tangible', and 'Air 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 *trairEqua*), and that this is therefore another variety of the doubtful reason: as in the case of the two middle terms 'possession of movement' and 'intangibility' taken as proving the corporeality and the incorporeality of the 'mind'. Surely it will be said, this (the *combination* of possession of movement with intangibility) is just a unique (*asādhāraņa*) quality of 'mind', because the combined qualities do not occur in any other subject : like the two qualities of invisibility and perceptibility'.—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 '*anadhyaosaida*' reason.

Sl Värt., anumäna, 92-93

[&]quot;Sridhars explains that although these two qualities taken separately are found in other things as well as orabites, taken together they occur nowhere also except in quality, NK p. 949 II. 1.9.

"But it will be said that in several places' in the Vastestka-stära ambiguity of experience (ubhayatha darsanam) is asserted to be the cause of doubt.—This is not the case: doubt arises from experience of a pair of objects (risquadaaitadaráanāt sainisayah): 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 visayadvaitadarsana in virtue of which the latter alone is 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 Prasastapada bases on this sūtra The sūtra runs : sāmānua pratuaksād visesāpratuaksād visesasmrtes ca samsavah-" 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, sādhāranadharma, implies a pair of objects to which it is common . and Prasastapāda emphasises this in his own definition by the use of a dual-prasiddhanekavisesayoh sadrsyamatradarsanād ubhayavisesānusmaranād . ubhayāvalambī vimarsah (PBh.p.174 1.20).

Now the so-called 'ambiguity of experience' (ubhayathā darśanam) of which the opponent speaks in the case of an asadharana dharma does not admit of this visavadnastadarsanam : for the mark of the asadharana dharma is that it is found nowhere else except in the subject. You have not experienced krivārattra plus asparšanattra as connected in one experience with murtatva and in another experience with amurtatra-there is no risavadvaita here. And therefore it cannot be brought under the rubric of doubt as laid down in VS II is 17 -This seems to me to be a real distinction. Whether the antinomy ought to be classed as a case of asādhārana dharma is another matter But the opponent has made or accepted the identification. And what Praśastapāda shows now is that to treat the asādhārana as homogeneous with the sādhārana is a confusion in classification The latter generates doubt because it has been connected with contradictory experiences (visayadvaita-M has been found with P in sapaksas and with non-P in vipaksas). It is a case of conflicting evidence. The asadharana is quite different for it excludes the possibility of experience which could provide evidence for either alternative. It is a case of absence of evidence. And complete absence of evidence suggests no view at all. and therefore cannot be said to generate doubt There is nothing positive about it-at most it leaves us in doubt. as suggesting no conclusion at all (adhyavasāyam na karoti)

Audubility 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. asädhärana dharma's) cannob te causes of doubt (samsayahetu or samidigdha), 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 'animeyoiddesa=either pratijfad or pratijfadhäsa, according as it is avirodhi or viroidhi pp.133-4) will be sublated by scriptural authority (ägamabādhita) · and then it will be a variety of contradicted thesis (i.e. a case of pratijfadhäsa)".

Praśastapāda's position is that, no matter how you regard the '*virudihāvgabhicārin*', the classification of it as as anàidgāha hetābhāšas will be unipstifiable. You may treat it as a case of the asādhārana : but in that case it will come under the head of anadhgarasita hetabhāsa. 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

⁵ and therefore, of course, is not to be classed as a set-digitalbilize.—Prediately avoid are no os tagos tupobalocations aris, angustaraughnumojoddatydgamabdidatedd, agam is synaidhabheds ses. See Stath LLA D. 141. Bit while Kath sull is be contrary pare and ample' must be understood to be, not the synaidhabhetabbles, but the oradis sumsendeds. Is a pestynbhabheta. In the loger of Pradstaplatis tume the pressrabhabhes took the place of what was later treated as a breedbhase, viz., the babhate

¹effihrs NK p 240 1 3 f. grees the reasoning of these who maintain this the acadiatron is a cause of doub-s-endergafertations ees systerings he supaked exakesmed epsetrim rugats. Items pakes margues acadiatorsays to explorite an acadiatis, especial out as especial approximation of the superior reason is accluded only for the possession of small might as well be much to error by the law of contradiction and both cannot be failes by Excluded Midtle. Therefore because of the possession of small double arms as to whether earth as upport. Also the Ayguesenther Examinita (6. 744, essentiat 66).

antinomy will be found to be a case of 'sublated thesis' in respect of one of its alternatives.

PBh. p.239 1.10. "And the middle term which is found in the subject (anumeua) 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' is not a ground for a conclusion and is therefore designated the non-concluding reason (anadhuavasita); for example, the argument 'every effect is existent even before its origination, because it originates'. This 'asādhāraņa ' is included under the 'aprasiddho 'napadeśah² (of Vaiśesika Sūtra III. i. 15) "

" And if it be objected that the vises or asadharana dharma is stated (in Vaisesika Sutra II. ii. 21 and 22) to be a cause of doubt (samsayahetu),-the answer is that this is not the case (na), since the sūtra has a different meaning (anuārthatvāt)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 sutra, II. ii. 22, says that doubt to whether sound is substance, quality or action arises višesasya ubhayathā drstatvāt, i.e. from ambiguous experience of the peculiar property. The solution of this difficulty is that the visesa spoken of in the sutra could not be audibility' as the peculiar property of this that or

^{&#}x27;anyataräsiddha This term is used elsewhere as the name for one variety of the asiddha-hetpäbhäsa. But it cannot be taken in this sense Values of the second se footnote. Bhisarvajfia is perhaps echoing Prasastapida's use of anyatarasiddha in this connection.)

[&]quot;See above p. 191 for the interpretation of this states

[&]quot;The punctustion in the text is wrong. It should be : ndnydrikatedt. fabde stiegedorfsmåt samkaydnutpathe sty ukts, etc. "frösonatos in Predsstapsda's substitute for the scotragrahapo yo "rikalp fobdah of 78 II. u. 21. 15

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 all¹. You may ask on what grounds we say this.

"The answer is given n Vaiseşika Saira II.ii. 22 which says that the possession of a peculiar property (such as audibility is) is 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. audibility, would be open to the objection that the middle term, 'possession of a peculiar property', is ambiguous-wibhayathädīrid—in the sense that it is found both in sapākṣā's or iuliyadītuy's, ie. in other qualities, and also in trpakṣā's or ārthāniarabhātā's, ie. in substances and actions³.

¹⁶rdihara NK p 245 11 12-18 shundates this passage as follows: After explaining sound in II. 19 28 as the object of the organ of hearing the stirksfor say, there is a doubt whether sound is substance, quality are sound as the start of the organ of the organ of the bearing you mean that it is just the fact of being the object of hearing is the second of the sould be only the fact of being the object of hearing is the second property of sound Bait from the experimes of this remembraines of both confidence property an assistant abarrang, because is a newr found together with any peculiar property what section is a newr found together with any peculiar property what section is a newr found together with any peculiar property materials. In reply to liss objections of the opponent, the stirakfare has given that rejonators transgo articles, de: "

summary substitutions are associated with the procession of a substitution of the state of the observation of the state o

"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."

SECTION 6 FALLACIES OF 'PROPOSITIONS', AND FALLACIOUS EXEMPLIFICATION

The recognition of these classes of fallacces other than hetrabhäa's or fallaccious middle terms appears to be characteristic of the period represented by Praśastapada and the Nydyapraceáa. The fallacces of the Proposition and of the Example were quite unknown to Vätsyäyana and the early Nydya, and were rejected by Uddyotakra.

The fallacies of the proposition are represented by the bddhita class of hetrabhāsa in the later schools : while the fallacies of the example may be found in the asidha class as expounded by later logicians (ryāpyatrāsiddha). Here, as in other details of logic, Kumārila accepts, with modifications, the teaching of Praśastapāda.

(i) Pratinābhāsa Fallacies of the Proposition

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

Faddegon translates this passage of the Bhdsya at pp 308-7 of his Vaidesika System but I think he misses the meaning of it, in part

Faddagon (Faidefeck System, p. 334) asys that the argument of the passgon first sate plate is flatgering to a been multiplication by Stochertsward, but Stochertswards, a remarker (quoted by Faddagon, p. 333) seem to ma to sugment libre discussed by Fraidsmark, and the stochertsward, beiter to expressed fadia interching discussion of the stocher and a silp-off the stocher stocher and the stocher and the stocher at all,-off the stocher and the stocher and the stocher and Schertswards. The stocher and the stocher and the stocher for the stocher and the stocher and the stocher and the stocher stocher and the stocher and the stocher and the stocher for the stocher and the stocher and the stocher and the stocher for the stocher and the stocher for the stocher and the stocher a

contradiction (anumeyoddeso 'virodhi), proceeds (PBA.p. 284 l. 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, (ii) what has been accepted', (iv) one's own works' 1.

The Nyāyapraveśa² gives a ninefold division, composed of these five with four others. The Slokavārttika² gives an independent classification.

- PBh p. 234 l. 4. "Examples are :---
 - Fire is cool. This is contradicted by perception.
 - (ii) Physical space is dense This is contradicted by inference⁴.
 - (iii) Intoxicating liquor is to be drunk by a Brāhmaņa. This is contradicted by scripture^s.

'abhyspagata. The meaning is that your pontion is contradicted by the very authority which-or the purpose of your argument-you are scoeping. See note 6 Yudyäbhäsapä rendering of the robre: in the *hyspagnesses* huch apparently form Dinhäge, Appendix I Sugner, Not insulse the corresponds to the *Heisderfasteris* 'constany' to the public understanting'' the example being "women and money are abminable thinge", is a sine paradox.

Drinägu's list from the Hetudvärasästra as given by Sugiura pp 60-61 very closely agrees.

Vidyäbhüsana HIL. pp. 290-291=MSIL pp. 90-92 Uddyotakara NV pp. 116-117 criticases examples given in the Nyäyapracess, and appears to approve of Prasastapäda's example of class (iii), as contrasted with the Basddhe example

anumänapariccheda, verses 52-75.

'splanam' ambaram. Sridhars says that the means of knowledge by which äkkés a known establishes it to be sternal and without parts. Therefore the Proposition that physical space or ether is without micratices contradicts the very inference which establishes the existence of the Subject itsel, is of 'ether' NK p. 386.1 92.

'ägemasurodhi here, but abhyupagatasurodhi above. In the Nyäyapraesés shis hesding is transisted 's theses uncompatible with public opinion', she example given being 'man's hesd is pure because it is the limb of an insuinate being'.

- (iv) Effects are existent before their origination. This, when put forward by a Vaisesika, is contradicted by his own sästra '' (which maintains asad upadgate, i.e the asaklar' 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 Nyäyapravesa is: My mother is barren').

But as neither Bouddha nor (structy speaking) Vasiepka scoppa atthorty or 'croible testimory' as an independent source of knowledge. there would seem to be no piece for this class of fallenons proposition in either system. But in practice both Bouddha and Vasiepka except the authority of scriptors, so that the difficulty should not be allowed to have to much weight—Sriftans bouvers seems to fold a difficulty, and meets to moth weight—Sriftans bouvers seems to fold a difficulty, and meets that the source of knowledge from which the reasoner has derived the facts to which he appeal (the characterisation is however to worke, for it would cover the first type also, contradiction of perception). According to has nairys the reasoner appeals to scriptor—"the scriptore says there is no harm in drinking milk. What harm them in drinking wme?"—The sawer at his the very same scription which allowes the Brahama to drink awaver at his the very same scription which allowes the Brahama to drink of milk-drinking, you must not contradict it. (for it is abhypespeiga, accepted by yoo) in the metre of wind-characteristics. 286 hes inne-287).

Transic lius, the example becomes a case of self-contradiction, like the fourth and fifth types which are opposed by Sridhars to the first iver types, in which the propontion contradicts, not merely your own tensity to the source of which experiments for the source of which experiments of the source of the s

¹Gridhars suggests the objection that the last two headings might be reduced to the first two, but repluse that a fatric s(s; that of the Baudday) may be based on merely fallacions proofs (gram5gbbbac), in which case construction of the fatris would not be gram5gbbbac), could not be classed under either of the first two heads. And the same supples to contradicting one's own istement ing

Four additional varieties are mentioned in the Nyāuapravesa :---

- (vi) A thesis with an unaccepted minor.
- (vii) A thesis with an unaccepted major.
- (viii) A thesis with both terms unaccepted *
 - (ix) A thesis universally accepted, such as 'fire is warm'. Indian logic always insists on the fact that there can be no sādhua or probandum without sisādhauisā or the desire to prove. And there can be no desire to prove truisms.

Kumārila similarly 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 case¹ He goes on to say that any of the six means?

be apramānamūla, in which case the contradiction of it would not amount to pramānapprodha. That is, he regards both these heads as cases of selfcontradiction merely

contradiction merely *Vujdşabhaşına's account has here been corrected from Sugura, p 61. — "The next four failactes of the Thesus are not found m Dinna's" (i.e. Duhağa's) "work but only m Samkara's" (i.e. m the Nyáyapravsá, which Chamese sutherity attributes to Samkara Svämm) "The is one of the very few additions made by later philosophers to Dinna's system. It will be remembered that Dinna said. 'The terms used in the Thesis must be accepted by all', . . . Upon this principle of Dinna's teaching Samkara 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 is not a fit subject of proof until at least God's existence is admitted by the opponent. Such a Thesis is called a Thesis with an unaccepted subject.

(vii) If the predicate of the Thesis is in question, the Thesis is said to be one with an unaccepted predicate

(viii) And if both subject and predicate are questioned, then the Thesis is one with both parts unaccepted."

These three fallacies are therefore three cases of the fallacy of many questions

¹SI Vart anumana, 56-57 The latter couplet is quoted by Sridhars in the present context, NK, p. 386 1 10-cosparityaparcheds and ackada, parasya tu

essperity operatorized Machazara parasys in mile targe hy antiparas parasys is the provided of the opposite is definitely known there is no room for a subsequent or second proof, since its object is subjicted by the previous proof before the mineratorized of the butter state with hung?

premises of the latter proof come into being". ⁸.e. perception, inference, testimony, analogy, presumption, non-existence. Bee p. 305 below.

of proof can in this way sublate a subsequent attempt at proof.

There are obvious difficulties in the conception of a fallacious Proposition (pratiinabhasa) or fallacious Thesis (paksābhāsa), as there are in its later equivalent the Sublated Reason (bādhitahetvābhāsa, bādhitavisayatva). Sridhara raises the general objection to the conception : " There cannot be sublation of an inseparably connected (avinābhūtasya) 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 (uadi trairūpuam 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 sublated¹ constitute inseparable connection .-then of course we should agree that there is no sublation of an inseparably connected middle"". But this

³NK p 236 ll 13-16 Cf p 205 l 7 - idam anendendöhlitam its frånam yarya nästi tam prati dharmini dharmayanayarayaterkavatopi ingateram at okigats. It sevens elsar that for Sridhars the 'three characteritics of the middle' could not slone, guarantee semdöhåva or inseparability of connection.

or combining the set of the set of the problem merely by the senon of the transform, there is "integrated connection between "being a product" and being not-warm in the argument fire is not-warm, because it is a product "argument in sension product "argument is a set of the middle being a product is a found in sension and the set of the

^{&#}x27;The reading of the text is atha bādhitaessayates sais trairlipyam esmābhāsah but the variant yahā for aths is noted. The variant gree the olice to the true reading, which I think must be athābadhitaessayates sais, etc. I have rendered in accordance with this conjectural restoration of the text.

'pañcarhpopapanatea' 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 (satpratipaka) nor sublated (*Daltaia*)—does not belong to the phase of logical thought represented by Prassatapāda and by the Nydyaprazeta'.

(ii) Nidarśanābhāsa. 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 *Probadum* or major term(*anumeya*-

the condition of the trainfugs, if the trainfugs is read without the restractee 'only' is the second and therd clauses. And Stidhars may have relied on Udyotkars's critique of the trainfugs (for the present purpose) as proving that the restrictive 'only' cannot be introduced into the trainfugs without making nonsease of it.

At any rate I can find no other way of making sense of whist forbars any here. His position only amounts to thus after all if your these is not inconcentent with facts, the evidence will be good enough to the fourth end in a separket of (20) and never in capital control. It is not include any in separket (20) and never in concentent with facts, prediced H of a the other hard pour thesa is an inconsistent with facts and sensitive and a separket of the concentration with facts on may (and sensitive and angebre on may (and sensitive on a self sensitive concentration with facts on may (and sensitive on a self sensitive concentration with facts on the other hand pour the sense to there as a larger dispervel before you set out to porte it.

The obvious relot to the position is that, if the thems is a leasely diproved, it is disproved by facts and these facts will as a matter of fact constitute counter-evaluation which will disprove the oppoant's assumption that he writeness estimates the deal conditions of never and only. For theorgh it may be impossible to prove an only or a never, a single contradictory paths calls a "pointed theory" under the main of Methods in factors middle, other as orradiant or as anakafuks? For it is always reducible to one or other of these two backs.

I think Sridhars has misunderstood the intention of pratiphibhāsa, which was merely intended to put ridicalous propositions out of court without further argument. And this is the only practical way of dealing with momente

¹How completely the later doctrine of bädhitahsteäbhäss corresponds to the earlier doctrine of pratynäbhäa will appear from comparison of the Nyäyasära's sub-division of bädha (given by Vidyahhüpana HIL p. 867. cp p 440 for the Tattracrintäman's classification).

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sāmānyena lingasāmānyasyānuvulhānadaršanam): for example, 'what possesses movement is found to be a substance,—luke 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''.

The six fallacies of similar Exemplification

PBh. p. 2471. 1. "By this account of Exemplification the fallacious exemplifications are set aside, as, in the argument 'Sound is eternal, because it is incorporeal', the exemplifications .--

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 nonproven—ubhayāsiddha
- (4) having the substrate non-proven—āśrayāsiddha²

¹Translated above I insert it here in order to supply the connection of thought

[&]quot;There is an unfortunate repetition of the phraseology used m naming the varieties of the 'asiddha hetsābhāsa'.

(6) inverted connection-viparitānugata.

Fallacious Exemplifications by dissimilarity are-

- (7) not excluded middle (lingāvyāvrtta)
- (8) not excluded major (anumeyāvyāvrtta)
- (9) neither middle nor major excluded (ubhayāvyāvŗtta)
- (10) having an unreal substrate (āśrayāsiddha)
- (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 neither 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, 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 Nyäyapraceša, who gives a list corresponding except that it omits the äsragistidha, Nos. 4 and 10) had fixed the form (vidhi) of the nidaršana as a 'major premise' Similarly Nos. 5 and 11 indicate the requirement of a sightic a atsiabhdata, a necessary connection between the attributes exemplified in the concrete instance or drgtant.

Note on the number of the Fallacies in Buddhist logic

Sugiura (p. 58) states that Sańkara Svāmın recognused 33 fallacies,—hine 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 possesse 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 Nudapravesa itself).

Dinnaga did not recognise the last four of the fallacies of the Thesis given in the Nyāyapraveša, and

¹²Prakatapäkä'n anawagalandariantöhäa and argönflanudariantöhäa sa mitarpätelö by Kridhara, canasi in failutto tei atei the syöht The oorneponding bead in the Nyäpspreseda commuts in a failure o the syöht, Dharmakitti provides a pilec for both faulture to state the syöht. Dharmaand han datancine beiven form and matter wiele sale made by Kumäria, whose int otherwise corresponds with Trakatapääry. Dharmatat otherwise corresponds with Trakatapääry. Dharmatat otherwise corresponds with Trakatapääry. The sale to be the anging the sale and innih ys sälling there classes with the the middle sale and hot are doubtful. See Nyägabindu pp 166-7 and Vidyabhösaga HIL pp. 314-5

The uddharengsblade perhaps does not figure m any Naujäyiks work except the tank heatury Najäyars of Bhäsarenja-a work which deristare from the accepted Naujäyiks teachings m other respects also. It gress what a practically identical with Frastarelation is into it works (or not add such but safes that eight (four and four) others are recognized, in which the major, middle, both, and substrate are deabtful.

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 either 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 trairūpua. The asiddha breaks clause I, the aniscita breaks either Π or III, the viruddha breaks both II and III). From this it is clear that Dinnaga recognised the asiddha, though it is ignored in the Hetucakra. Of the remaining ten fallacious reasons the wheel provides a place for seven which depend on the formal relations of the middle to the sapaksa and vipaksa (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 piruddha 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 viruddhāvyabhicārin.

Sugiura (p. 70) notes that Dińnāga "enumerates 14 fallacies which may be committed in the course of disproof of a valid Thesis . . . These fourteen fallacies Dinna sacribes to Socmock ". "Socmock' is without doubt Akşapāda (see Sugura, p. 21 n. 3), and these fourteen fallacies of disproof (*disanabhāsa*) are nothing but an abbreviated list of the 24 *jätis* of *Nyāyasātra* Bk. V.i., as is quite clear from the account given by Sugura (p. 23-26). He adds that the fourteen 'fallacies of refutation' (i.e. *jäti*) are not mentioned in Satinkara's *Praveša-tarkadstra* (i.e. un the *Nyāyarareśo*). with the practical ignoring of Bk. V of the Nyāyasūtra by Indian logicians from the time of Prasastapāda onwards.

SECTION 7. SYLLOGISTIC. THE WHEEL OF REASONS', OR THE NINE VALID AND INVALID TYPES OF SYLLOGISM

Difnāga in the Pramāņasamuccaya' gives a formal scheme of nine valid and invalid types of inference which appears to be the earliest specimen of formal 'syllogratic' in Indian logic'. The scheme is a corollary of the second and third clauses of the trairfugua', that is to say it is a statement of all possible relations in which the reason or middle term may stand to positive examples (signakşaş, XY's) on the one hand, and to negative examples (signakşaş, X non-P's) on the other hand. The middle term may be found in all, some, or none of the positive examples: and again in all, some, or none of the negative examples. The combination of these two sets of possibilities gives rise to the Nine Types :—

> I All XP's are M. and All X non-P's are M (i.e. the hetu is sapakşavipakşavyāpaka'),

"The passage is quoted in full by Vācaspati Miśra in NVT p. 196. It will be found in Fragments from Dinnāga, pp 29-38.

¹Praśastapäda makes no reference to this scheme, nor to any other scheme of valid and invalid 'moods'. It might scene that he would have referred to this piece of formalism if it had heen known to him : and this gives some support to the view which makes **Praśastapäds** earlier than Dańaga

But on the other hand, Praśastapāda does note the two valid formsof syllogism--and it may be argued that this implies the kind of formal scheme set out by Dinnäga

The first clause of the trainings—ansample settem—is spaced in the scheme, that is, the relation of Mt 0.5, packadarmed, is upsaved, so that what was later called the and the scheme first model is which is discover bases it does not be scheme for the scheme scheme its discover bases of the scheme first scheme scheme its discover bases seems to state the principle on which it is spaced—rat, that first disclosures its science is a side backadarmer, it, can scheme its dis by Kasapat seems to state the principle on which it is spaced—rat, that first and failscnose reasons its general is side backadarmer, it is needed in 8.

"The convenient Sanakrit formulae for the various types of syllogism and paralogism are those used by Uddyotakara 'except that I have substituted the more familiar 'sapaked' for Uddyotakara's 'tagditys, '.e. såditysjeditys, 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 incorclustice (anisócia, asamdiqdha. It belongs to the sādhārana or 'too general' variety of the savyabhicāra or anaikantika hetrābhās).

- II. All XP's are M, and No X non-P's are M (sapakşavyāpaka vipakşāvŗtti), e.g. 'Sound is non-eternal because a product'. VA-LID.
- III. All XP's are M, and some X non-P's are M (sapakşaydpaka vipakşakadešaytti), e.g., 'Sound ıs an effect of voltion, because non-eternal' —But some things which are not effects of voltion are non-eternal, e.g. lightning. Inconclusive (ansistia).
- IV. No XP's are M, and All X non-P's are M (sapakävrtti vipakavyäpaka), e g. 'Sound us eternal because produced'. But there us 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 trairtipue.
 - V. No XP's are M, and No X non-P's are M (sapakşairpakşāryti), 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 satisfied².

- As satisfying only one of the two latter canons the argument is *inconclusive* (aniścita). The asādhārana or 'too restructed' variety of the sacyabhicāra hetrābhāsa, according to the later classification. But Praśastapāda classes the asādhāraņa as anadhyarasita, a reason based on no evidence at all, and refuses it the name of aniścita—samātgdha—a reason based on conflicting evidence.
- V1. No XP's are M, and some X non-P's are M (sapaksävrtti vipaksaikadesarrtti), 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

^{&#}x27;er, as Uddynikara would put the objection to this argument, the negative evidence is conflicting-excidence point explosions, is non-M is P as well as non-P. For Uddynikara holds that in this particular case is available an argument which is another with evidence of the objective satisfields an argument which is another with evidence and by without satisfing the second, provided the negative evidence all points in one direction, is provided that in the non-N as an on P. Under this conditions he calls evide a regurner which the later schools recognise as trialskepatetis, is it need not always early the three chools recognise as trialskepatetis, is it need not always early the three chools recognise as trialskepatetis, is it need not always early the three chools of yilogeno puts, as estimated only two consons, with the first and the third

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, (sapaksaikadešavrtti vipaksavyāpaka), 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. lightnıng, 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 contraductory, because it does not break two canons but only one.

VIII. Some XP's are M, and No X non-P is M (sapakşaikadešavrtti vipakşāvrtti), 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 was *squategraygaka*, resident *m* 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 (sapaksavipaksaikadesavitti), 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-differing 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 third ' 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 asadharana 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, again, 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 adducible¹) it will be equally true that there cannot

[&]quot;This is Uddyotakara's proviso Diningga makes no proviso and so treats all arguments which satisfy only the third canon as invalid. See last note, and page 341 below.

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 Indian logician is concerned with the relation of M to sapaksas and vipaksas. 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 pre-served its original character. When the conception of a nuānti ' of M by an abstract P begins to overshadow the ⁴ Exemplification ' (nidarsana, udāharana), the distinction between the Indian and the Aristotelian syllogisms begins to be blurred · for the udaharana 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 vuāpua and vuāpaka, of something that might have become a quantitative logic.

The 'form' of the nidarsana, and the notions of ryāpya and ryāpaka.

It may have been Kumārila who developed on these lines the implications of the '*vithi*' or 'form 'laud down in the logic of Prasastapāda's age for the *vitaarsana*. Kumārila' insists that the object of the example is to convey 'the pervasion of the middle by the major term '(*vyāptim gamakasya gamyena*—NRA on 107): and that this 'pervasion 'can only be conveyed by

Sl. Vart., anumana, 107-111

a definite order of the terms (racanārišesa-NRA), the middle being the subject (uddesya) and the major the predicate. The subject is the vyāpya or pervaded while the predicate (major term) is the ryāpaka 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 nidarsana .--- which can now fairly be called a ' major premise ' The quantitative implications in the notions of ruānua and ruānaka are clearly set out by Kumārila : uo uasua deśakālābhyām samo nyūno ' pi vā bhavet sa vuāpuo, vuāpakas tasua samo vā 'bhuadhiko' pi vā. tena vyäpye grhīte 'rthe vyāpakas tasya grhyate na hy anyathā bhavaty esā vyāpyavyāpakatā tayoh. vyāpakatvagrhītas tu vyāpyo yadyapı vastutaķ ādhikue 'pu aviruddhatvād ryāpyam na pratipādayet.

(Sl. Vārt., anumāna, 5-7).

"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.' 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],----till, it would not cause the pervaded to be inferred ''.

^{&#}x27;ie, we can infer from M to P, but not from P to M If S is M, then it is P: but if S is P, it is not necessarily M.

The last couplet is difficult, but may be interpreted to mean that though sometimes M may be convertible with P (the proposition M is P being equipollent, so that there is no contradiction in saving that all P is M, as there would be in case P overlapped M in extensionadhikue), still, when we do thus argue from P to M. "P" is no longer the vyāpaka or major term, nor can we be said to argue from "' vyāpaka "' to the '' vyāpya;" from the '' major "' to the '' middle". P is now our vyāpya, or middle, and we argue from it to M as our major. or ruānaka1.-This last couplet is quoted by Srīdhara2 in dealing with Prasastapada's account of the viparitanuaata-nidarsanābhāsa). ''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' (vuāpti) is restricted to what is pervaded, solely (yac ca vuāpuam tadekanivatā vuaptih), and does not, like the relation of conjunction or contact (samuoga), 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 (samavyāptika), so that the pervaded is also pervader, 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 (auru, i e, Kumārila) points out in the couplet vuāpakatvagrhītas tu etc."

^{&#}x27;1e, M as P, S as P, S as M. There is no contradiction because P is not as a matter of fact greater in extension than M, in the case supposed —But then P becomes the real systeps' This is to say the true form of this argument is P is M, S is P, S is M. As we should put it, it is formally invalid in the Second Figure

^{*}NK p 248 i. 9 The second line is quoted here in the form ādhikyé 'nı şımdihatvät, etc.

^{*}NK p 248 ll. 4-9 It is perhaps surprising that Indian Logic never developed the notion of cyzpyczyżpakatcz mio the quasi-mathematical znalysis of the relation of terms in arkension which constitutes westerp

SECTION 6. SYLLOGISTIC (CONTD.) THE PURELY POSITIVE AND PURELY NEGATIVE TYPES OF SYLLOGISM

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-sapakşa, avidyamänavipakşa) and the case in which the reason is not found in an existent XP, or X non-P (sapakşäyriti, eipakşäyriti) · and (2) by taking pakşadharmatā, the relation of M to S, into account. The former distunction adds seven other possible types to the nine recognised by Dinnäga three in which there is no X non-P, while the reason is present in all, some, or none, of the existent XP's : three in which there is no XP, while the reason is present in all, some, or none, of the existent X non-P's : and one in which there is neither any XP nor any X non-P. This gives a total of sixteen types.

But the insistence on taking into account the relation of M to S results in the multiplication of this total by three : for this relation also assumes three forms, according as M resides in all, or some, or none, of the Subject (sādhyavajāpaka, sādhyaikadsšavŗtti, sādhyāprţti). The total of types of syllogism and paralogism thus reaches forty-eight¹. But as all types in which M resides only

'Duaregarding a variety of ways of sub-dividing the main divisions which give rise to endless types. NV p. 170 l. 17.

[&]quot;formal" logic Indian formalism in fact seems to break off abruptly at the point at which western formulation begins,-perhaps by a fortunate instinct

The Note on the Index Syllogens in Mind size p. 388 stiempts to spreash the firstraying formulation of syllogents types by way of comparison with watern formalism. I do not believe this any really unportant inference realized the second state of samples, or by the watern attempt to treat it as an application of the Dietam de Omas et Nuilo. But-if formal logic a a mental discription to the wheel of the reasons at the plongh the sample a mental discription to effect the reasons at blongh the sample a mental discription to effect the reasons at the plongh the sample tion to the physics of effect or initiation.

partially, or not at all, in S, are asiddha1, only the first sixteen need he 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. Uddvotakara's contention as against the Buddhists is that they are wrong in holding that only a reason which satisfies all three ' Canons ' (a trilaksanahetu) is valid : because it is necessary to recognize the validity of the purely negative syllogism (kevalavuatirekin), which does not satisfy the second Canon and is therefore dvipadayukta or characterised only by two clauses of the trairupya; and because the examples of the two valid types given in the Wheel of Beasons are as a matter of fact of the purely positive type (kevalānvayin) for the Buddhist, who does not admit that there is anything eternal (anabhyupagatanituatranaksa)². It will then be necessary to recognise

In other words, the M, in a propertion connecting M with some S is a still add/specific production as the two of other that (is a particular part of S) with which its connection is asserted, if the properties is a star of starburds? The subject of particular propositions as in this sees as much "starburds" distinction of statements as particular and universal—a distinction which, as used in our formal loge, as certainly without logical institutions which, as

Op Segura pp 53-53 He points out that the Indus logican does not recognize the particular proposition, and normally states the "E" proposition, and normally states the "E" inposition in "A" form (all S is non-1), and therefore presents his thesis in "A" form silverys F rom this he dedices the absence of "model" and figures "mingin not of the Srd

The two arguments referred to are Nos II and VIII-Sound is noneternal, because a product', and 'Sound is non-eternal because an effect of volution'. There being on the Buddhats view nothing eternal which could be guided as negative evidance, both these reasons would be classed as purely positive by the Buddhats, if he were coverstent. And yet he admits their validity.

[&]quot;The rejection of the article addinguiaded artist as 'anddha' does not conflict with the Artsicielian recognition of inference from a muor premuse in which S is undistributed to a particular conclusion. For the 'some S' of the conclusion is the Indian logican's addhys, and if the inference is to be valid the whole of this 'some S' must have been referred to in the premuse.

not only two valid types, but five,⁴ viz., two based on both positive and negative evidence (anexyavyatirckin), two based only on positive evidence (anexyivade eta = kevaliancayinau), and one based on negative evidence 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 (aridyamänasipaksa), the second three are purely negative (aridyamänasapaksa), and the last is neither positive non negative—i.e. no evidence at all us adducible (aridyamänasapaksavipaksa). They have the characteristics shown m the following tables :—

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

10 stdlygathyaffarespikoka ser. The kersilencom scoppici as descent ansignt debia wystitikarma. Ngiga echod, e.g., the pt was a statistic debia server of an who would fail under No. 16 element. The crassile because knowable, (If we took 'errything' as each of the Hetrocires extension whole 6 as of less deman between the statistic server between the second	No	Bubric and Example.	Remarks.
		dysmainaropaka. onsiguk shaba utyatutikarma- katesi (Uddyotakara notes that the example is given from the point of view of one who holds that there is nothing of the transpio- denary of the transpio- denary of the transpio- denary of the transpio- denary of the the the point in placing it here, as well as at has No. 8=HGD No. II, us to indicate the ni-	valid by the subsequent Nyfiga school, e.g. the pot was nanoshie because knowable. (If we took 'everythung' as the mimor here, the argument would fail under No. 18 below) P andow are both infinite in contamon while S as of less extension Rubric : All S is M. There are no X non-

¹NV p 107 ll 3-6 ta ete pakęavyāpakāh sodala esām paloa hetavah, šesā hetrābāsāh ancayavyatirskiņau drau vipaksāvīti trītyanavamau; ekšnizešāinonvayināv ven dašamakādašu, vairiski panadasā sit

"These are the nuttern types un which M results in the whole of 8. Five of them are valid reasons, the rest failations is the wald reason as retwo positive-negative, in which M is not found in X non-P, namely, the third and nuth in the show lait, for the person who maintains that there is only one class of things, viz., non-sternal things, the tenth and eleventh are purely positive, the filtenth is purely negative".

(The positive-negative reasons are described as significant to distingulah them from the fallacions positive-negative reasons, which are either sipal-sidadefate or ipskessigapata)

- No Babric and Example
 - sadhyaı yapaka tajjõliyaska desavyti: avsdyamänaı spakşa anityah fabdo bahyendriya pratual sat
 - (Thus is the same example as that given is No 9-HCD No VIII It is green at No 9 un a fuller form-aemanyaesiferssato amad adibahyakaranapratyakat eet Had the Baudha been consustent he would have put has accord cxample of a vald hefu here as a second form of keea(Janeyun)
 - 19 sadhyavyapaka tajjatsyavrtti avidyamanavipaksa antiyah sabdah fravanatvat (again kevalanvayin from the Bauddha point of view only)

Remarks

- Another form of *kevalaneaysn* —valid if No 10 is valid (?). I have not met with an example from the *Naiyayska* standpoint but an example would be The pot is name able because valide
- P is infinite in extension but M is of less extension than P S again is of less extension than M, otherwise the rubric would be that of No 12
- Rubra All 5 is M som, XP is M There are no X non P s
- A third form of kees/ancagow only differing from the sea diarana fallecy in that the rubric of the latter has produces the search of the search codigermanenripal or That is to say it is an aridharana with an infinite mayor term P is infinite in aridharana while S and M which com ride in extension and M which com ride in extension than 1 in extension

Table of Nos 13-16 in Uddyotakara's list of sādhyaiyāpaka

No

Bubra and Lasmole

- sadhyavyapaka avidyama nasajatiya vipaksavyapaka Nityah sabda utpattudharma katvat
 - (This is the example of on f it to evication the structure of the struc

Remarks

- fine is in form herelaryati rekin, but obviously invalid as residing in the tipaksa
- Rubric All 5 is M

There are no XP s

All X non 1s are M (a single instance X non P M is of course fatal)

No.	Rubric and Example	Bemarks
14	södhyaoyöpaka avsiyamäna- sajäiya vipokeaikadesaytti nuyak isööb öääyondryaprat- yakeatsöä. (comment as at 13. mutatis mutandis The example – HCD No VI. and Uddyo- takara's No. 5)	Reinarks as at 13. Rubro: All S is M There are no XI's Bome X non-P's at: M (though some are not M)
15	eddh yasydpala and ynmänsas- jäliga appeholerita. Nedan nurötmalasi jära chariram anndrugddushda- natsaprasasingdt. (Thus example is of course given from Uddyotakara's own standpont is be scoepts it as valid)	This is the orlichets sciepted by Uddyotskars. It is cal- didrans and at the same time keeslasystitekin. It is visid because 'outdharmyon na vyabhicarati' is all three terms connection extension. Rubre All S is M Three are no XP s No X non-P is M
16	paksavyāpaka avidyamāna- sopaksavipaksa garvam nityam prameyatvēt	The anupasimhärin See below. S. M. and P. all unlimited in extension All S is M, but there are no XP's nor X non-P's.

(a) The Purely Positive types (anvayin, kevalānva yin)

There are several pas.ages' in which Uddyotakara seems to say that two of the three purely positive

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" (ancougueyatirekin) type, but which would be ' purely positive ' for the Buddhist, if he were consistent. Moreover, the argument for their validity in very case takes the form of an argumentum ad hominem.

' Either the two arguments which the Buddhist gives as illustrations of valid syllogisms are not valid, or else he 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 vew that the keralårneagin is a valid type : though this subsequently became the accepted view of the Navjägika 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'. 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--iff

characters', is wrong because two middles which have only two characters are true reasons, viz, the middle 'being a product' is endowed with (only) two characters for the person who does not admit the existence of any eternal subject; and so is the middle 'being an effect of volition' and so these two middles would not be valid reasons "

The passage at NP p. 60 merely repeats the Passage at p 46 and span at p 61 suggest that the trenddam annumbers of NP 1. 1 5 may mean margan, systericka, and meregespectroken This looks as it Dobythe cample of the first class which is really kerediatory, and again search its valuity only conditionally-postal screeningsteesedam antiged faddad fraidated it gas he repeake Meth.

³NVT p. 115 l. 21 (on NY p. 46 l 13) The example be gives basthe ment of not being a mere trainen, like the stock example 'the pot vanameshie because knowshie'. There is an obvious afficulty about maning a erseat for a name universalizes, expressing unity in difference. Visesbere nust mean the category so named. it did the ' too restricted ' (asādhāraņa) middle would bea valid reason—; it depends on its being endowed with essential relationship to the thing to be proved (*crasadhyena saha svābhāvikasambandhašálitā*); and the fact of its being so endowed can be known by a purely positiveconcomitance provided it be unconditioned (*anegamātreņāpy upādhirahitena*); just as it can be known by thecombined 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^{*}.

The question of course remains—How, on a view of inference which makes it essentially an affair 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 *vyāpti*, universal concomitance, which shall cover the case of the 'purely positive' inference. Gangesa in the Tattacantámagi

The western scholastic feels the need of this sound principle for the hmitation of 'infinite terms' in other connections, as for example when he-

WPT p. 115 H. 15-50 The passage dealing with the purely pairs of ideals extends from p 114 1, 28 to p 115 1, 24. The earlier part of i deals with the suggestion that if we admit that in the sheence of measure examples there is no negative concombines "all X no.P-3 ext no.P. M, this amounts to the admission that M does reside in X no.P-3-beause the densil of a domain at the simulation of the bind fort ideal - The ideal state of the admission of the the bind fort ideal - The designate' or non-anity (unrepidivgs) like non.P which cannot even serve as lows for the observe of M. When a symme cannot even serve a lows for the observe of M. When a symme cannot even serve water senable people do not suggest that he might take gravil Theorganize is a state of the constitution. The bind forth or the organized demail as a detail of constitute, there were no X non-P's an which is the presence of the contil behavior. In this here attribute sufficience of the contil behavior. The here attribute order part is the state of the non-the lower of the order of the sufficience of the contil behavior. The here the order waters actify i.e. M and X non-P much both costs before it is possible to design that M areas in X non-P.

reviews a series of such definitions and rejects them all on the ground that they involve, explicitly or implicitly, 'reference to a *vipakşa*, X non-P, in which M is absent, and thus exclude the 'purely positive ' inference'.

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 aviduamānasapaksavipaksa (No. 16 of the Tables above), i.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 instance². As there can be no positive instance sapaksa, either, since everything is the paksa, 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 '.

'Sos Vidyābhūşaņs MIL pp. 421-425.

"See Keuth *ILA* pp. 145-146 and 118-131 He says that the "difference between 'all can be named because it can be known' and Uddyotakars' No. 16 'all is sternal (or non-sternal) because it can be known', is that in the former 'there is a real ground of connecton between naming and knowledge ..., and the test of reasoning in the school is always correspondence with mainty'. This is true but the questions remains how correspondence with mainty'. This is true but the questions remains how correspondence with mainty'. This is true but the questions remains how ensumeration'--the absence of negative evidence making the 'method of difference' insolutable

deals with the process of 'unversion' by which All S is P yields the somedime showed miphotation that some non-P. He would hardly infer that amoe all that can be known can be named, therefore some things that are unknowship are unanameters are non-provided by not heastite to 'contrapose' this proposition into the form. 'No unnameables are knowship'-which is equally objectionable to Vicespath's principle.

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'. the ground that in the former case positive evidence (sapakças) at least is available; while in the latter case no evidence at all is available; the unlimited nature of the pakca excluding the possibility of quoting examples not included in the pakça itself and to quote the pakça 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 sapakça-ripakça: except by the desperate device of allowing one or other of the particulars which constitute the paksa to figure also in the caspecity of sapakça'.

(b) The Purely Negative Type (vyatirekin, arīta hetu^a, kevalaryatırekin)

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

[&]quot;The deficulty as exactly that which Mill found in all wildparms, as formalised by version logo. If was avoided in the Induan formalism, so far as that argues from repairs to prior, is no far as it as an affar of examples. But the Induan formula goes bankring the withere are no examples, the only 'evidence' for the conclusion hering the pairs itself. The tritls is that argument from examples—or, which shounds to that, from a generalization from examples—to far from being the type of all inference, nature discussion in the evidence for the conclusion in the 'pairs' itself. This was recognised in the doctrine of anterpäpis. See Ngäyöstärs, 1, 50

¹⁵ For eits and evits see NV p. 183 1 8. and Kenth *ILA* p. 90. The two words are usually translated 'direct' and 'undrect' and the latter rendering corresponds with the fact that Uddyotakara slaveys expresses the engiven argument (regateristen, which for ham laveys means kerelengistrafes or estil) in the indirect form of an argument from the undershile donsquences (presents) of the opposite times, e.g. wardinations which forms the squences (presents) of the opposite times, e.g. wardinations which for the state provide the state of the state of the state of the state of the state a soil, berance if its were it would follow that it should be without which function. But the previse meaning of effs in the connections would seem for

purely negative type¹. (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 as add/srap.

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 ' (asādhāranahetvābhāsa), 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 is that the negative reason (vaidharmyahetu) is indeed a ' restricted ' quality (asādhārana); 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 vuabhicarati

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 *avgabhicārita* of the concomitance, i.e. the fact that M is not found with

NV pp 196-197.

be that the hetu or middle term 'goes away from' the pakes or minor (stead Area preddrags and. . . pakeosykpakties est, sepsizesydpigd 'egjörjed es NYT pp. 198-3) The offic Areiu as consequently a Areiu formed by an addAfrags Aherma, he by a quality which does not 'go away from' the pakes min espekes, hot as found in the pakes only.

non-P in the former case, and the fact that non-M (the vaidharmua) is not found with P in the latter case. Now in the case of the ' too restricted ' fallacious reason non-M is found with P as well as with non-P : that is, 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, S. 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 (non-M) is only found in things which are not possessed of soul (non-P). Therefore this argument satisfies the condition of avuabhicāritva1-vaidharmvam na vuabhicarati-2 biley at has

greater extension than the other terms, while in the inference which is variable illutions terms have the file cartennion". Vecapatit Mark's account of the apphitchrise of a negative reason is based on the enturyl different principle lists the negative reason is based on the enturyl different is non-Market and the negative reason is based on the enturyl different with the unsport premise all months is non-Passebolic flat interpretation of apphilocinties is that non-M is never P. Vicaspati's is that non-P is never M.

"There can be no doubt that the interpretation of this phrase here years in the which (Edyobars noticed) and the scinal statement (NV p 137 11. 15-21) presents a difficulty "Todi tarky ackidstein dhermo heats, midg sprikel gandheatedde it yi ddyo, heateab programsenti...Ne, Actestrikaparnjähldi. Istigum addahtere can altykapargenhicht readharmyan eynhicerati, gandheateddere en antykapargenhicht antykapartic of the subject of the second state of the second hermonia areasynapticrekynor anyabhoffab "--"Tit may be objected this if a quality restricted to be subject (b) is a valit reason, then such arguments as 'acth-mishance is eternal because possessed of annell will become valid restore the objection based on a complete manufarminating of what constitute a valid reason. It is true that the valid regative reason is formed by a quality restricted to be subject. Bein in the case of the is not found in P as well as in mon? (cadharmyash na symbhorrati) -Bandes, in the case edidiced by the objection is possessed of mell is as It amounts to this. If M is only found in S, no positive evidence 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 *aridyamānasapakşa* in order to be valid. If that condition is fulfilled, the negative evidence is bound to be uniformly in favour of the conclusion (assuming that there is any negative evidence forthcoming⁻¹), since the absence of M will be found *ex hypothes* in all cases outside S, so that the concomitance of non-M and non-P will be invariable.

s matter of fact found with non-P as well as with P (in the case of S, earth-subtrance, islatd—for through earth-sitema are eterral, earth-composite are not so that the argument is bdd/ntd, i.e. P is not found in the whole of the subject)—The facts is that it is not the (merc) positive concountance and negative concountance that make a positive and a negative reason respectively valid, but the mescarbidity of the concountance in either case

The second seco

Taking the text as it stands, the clause must be regarded as a parenthesis—'Apart from other objections this particular argument would anyhow be invalid, since it is *bddista*."

'S staelf cannot be adduced as evidence of connection between M and P without begging the question—for we do not yet know that S is P. And if there are observations in which P is found—XF's or sepakata—they will not be evidence for connection between M and P, because ex hypothes: M will be absent in such cases.

Will be assemble in soon cases. If none is forthcoming the rubric will be aridyamäncerpakka, and the argument will be urwaid. There are four possibilities in the case of an acididregodammer which is used as a middle term (ignoring cases where M is nor radiagorgápaka, i.e. where S is as a matter of fact not M, i.e. where the argument is condemned on into as a 'andida's. They are -

(a) S and M connecting with each other in extension also coincide with a limited P. The rubric then is anidyamānasapaksa The valid purely negative argument, as formulated by Uddyotakara, involves an illicit process of the major term.

"Yāvad aprāņādima", tat sarvam nirātmakam drstam iti. aprāņādimatīvam ca jīvaccharīrān nivartate. tasmād tad-avyabhicāri nirātmakatvam api nivartsvati "1.

ospakęšortis This is the valid use of an asädhöranadharma as a hetu = No. 15, the kevalavyaisrekin.

- (b) 6 and M concide with each other in extension, but not with P, which is unlimited in extension. Buttien, appadegring description of the standard state of the standard is an one of a good cough yilogene, budget is a state of the classical state of the state of
- (c) B and M connoide with each other in extension, but not with P, which is limited in extension Rubre, speckforffi expandedrifts (No 6 in Iddyotakars's list=No 8 in the Wheel of Beason) Thus is the normal type of the fallest of 'too restricted reason', asddMarma ketsdbMas, ag, 'sound is elemal (or non-eterns) because the object of bearing'.
- (d) S and M councile with each other m extension, and with P₁, but all three are unimate in extension. Rubra, endogeni-manapake serdyamatasipaka. There heng in erdences it of the server table, the enupsearchers of inter logic But isl is nameable because knowled—which would fall under No. Les as good an extension service and the server table, the enupsearchers of the server table, the enupsearchers of the server table of the server table
- (The passage of the Nyāyarārtika here referred to is dealt with in the note on the Anupasamhārin, below, p 248 seq)

'NV p. 196 l. 18.

All that is without vital functions is without soul : The living organism is *not* without vital functions :

Therefore the living organism is not without soul.

Vācaspati Miśre¹ in commenting on this passage says that the 'major premise ' must be 'converted' (vyatyāsena yojanā) into the form yāvan nirātmakam tat sarbam aprāņādimad dīstam—

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. Uddvotakara's formulation appears to avoid the petitio. since an opponent who maintains all things to be 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 illicit major by adducing, as an example of a thing which is not devoid of vital functions and devoid of soul, the subject (paksa, 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 instanced³.

NVT p. 198 l. 11.

[&]quot;Which he states in the form "only the absence of vital functions is excluded from the organism-not the absence of soul".

See Note on the Indian Syllogism in Mind, n.s. Vol. XXXI No. 128, p. 409 footnote, for further remarks on this argument.

[&]quot;The opponent ought to produce a counter-instance in the form X M non-P, i.e a thing other than the organism (8) which is possessed of vital

And if an opponent is to be permitted to adduce the Subject (paksa, S) itself as an *enstass* or counterexample, then no syllogrism, not even the most cogent, will be safe from *enstass* : 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 pakso itself, M is accompanied by non---ie. that sound is a product and yet not non-eternal'

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 soul². The case must be argued on the basis of the negative evidence. And here the defendant has it all bis own way, from the very nature of the case : for all cases X non-P are necessarily non-M to so that no exception can be fortheoming to the concomitance of non-M and non-P—" waidharmuain as quiblicarati".

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

'NV p 127 | 1 pakşavyablıcdropadarkans satı kakyam vaktum 'anvayını tu hetau sabde nityatvam astu satı krtakatva' iti.

*Ees footnote 8, p. 946.

functions (M), but is not possessed of coal (non-F). But it is unpossible to do so -Thm works and its many formula (a) that is without viail functions for that U dividual to the origin of units) and the set of the set o

nothing': and the weakness of Uddyotakara's position—a weakness inherent in the view that inference is an affair of 'endence', arguing from particular to particular—is that he feels himself precluded from admitting the subject, S, itself as evidence. But 'Difference's 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 Anupasamhārin³

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

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Upsemblars is synonym of upsnays (see NŠ I 1 83), and means the application of the example to the case under condersion. In the empsemblars type three can be no application because there are no examples Kath (LLA 1.45) readers the reason which does not subsume?. The name empsemblars apparts to be last, but the type an endgembraneapplerspace, the No. 16 of Udivalants is last. There are no negative examples because the mumor term is unlimited in extension.....The type may be indifferently regarded as a fourdy-amplaneous types (Nos. 10-13), or of the acid/areas types (Nos. 10-14), or of the acid/areas types (Nos. 10-15), or of the acid/areas types (Nos. 10-15), or

^{&#}x27;Kenth ILA pp. 190-181. "To arrive at a positive conclosion from a negative as in itself as unusual procedure. This is true when the interpret positive's is less objectionable that the 'provel positive' typebut a further without an edge is quite as had as an edge without a kinds indeed the undequery of the paradeguate formulation of inference consecout more clearly in the case of the 'purely positive' than in the case of the provel possitive' type.

As such it has to be differentiated from the valid ' purely negative' type. "Yah punar asādhārano dharmah paksa eva kevalam. yasya tattulyavipaksau na stah, sa kasmān na hetuh? Yathā sarvam nituam sattnāt "----"Why should not a middle term which is a peculiar property residing in the Subject (S) only, and with respect to which neither positive nor negative examples exist, he regarded as a valid reason? e.g. everything is eternal, hecause existent." The principle which was used to differentiate the valid 'purely negative' type, No. 15, from the fallacy of the 'too restricted middle' (asādhāranahetvābhāsa)-the principle that non-M is never found in XP's but always in X non-P's-1s not applicable. because there are no cases of non-M. nor of XP, nor again of X non-P. Another principle is required, and Uddyotakara states it The text runs :--- satuam asadharano na vuävrttah avuävrtte hetuh. As it stands this does not seem to give any sense. The editorial note expresses an opinion that avuävrtto hetuh is the true reading : but this again does not seem good sense. Jha's translation implies a reading : satyam, asädhäranah, na vuävrttah. avuāvrtto na hetuh. " True · the property of existence is a unique one; but it is 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 avyāvrito 'vyāvrite na hetuh-and meant by this, '' an unlimited middle in an unlimited minor is not a valid reason ". This would exactly describe the anupasamhārin.

The examples which Uddyotakara gives-all is eternal because existent, or because knowable,-are both false, because as a matter of fact the major of the argument (eternality) is not unlimited 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 aridyamānacipakşa). 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 avadhāraņas into the trairūpya. Uddyotakara's criticism (NV pp. 58-59).

In his criticism of the three canons of the syllogism (trairūpya), as formulated by Dināga in the lne Anumege 'the tatuluge sadbhāco nāštia' satı. Uddyotakara points out that, on the one hand, it is necessary to read into them restrictive forces (such as are expressed by 'ea' 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 valid middle term-

- i. resides in the anumeya (sādhya),
- ii. resides in what resembles the anumeya (i.e. in sapakşas or positive examples),
- iii. does not reside in what is not like the anumeya (i.e. in vipakeas 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 *sādhyaikadešartti*, i.e. resides in part only of the Subject, viz., akoms (since earth-atoms only are odorous, and no other kind of atoms)¹.

In order to exclude such arguments it is necessary to find somewhere in the *tratripya* the requirement that the middle term should be *sādhyayāpaka*, and not merely *sādhyaikadešavŗtti*. That is, it is necessary to find the requirement that all SP should be M (which constitutes *pakṣadharmatā*).

The Bauddha now maintains that this requirement can be read into the first clause of the formula—anumege sadbhāvah—in virtue of a restrictive force (aradhhāvah) which is implied in the statement. Uddyotakara seksubat 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,

and (b) anumeya eta sadonavan, existence in the subject.

"That is, there is failure of pakyadharmati in this argument—as western schoolmen would say, there would be an illicit process of the minor, since the answeys (that about which we are going to draw the inference of 'being transitory') is all atoms, not one class of atoms only

Of course there will also be a failure of vydpts in the argument, i.e. the major premise cannot truly be stated as a universal proposition · since only some, and not all, odorous things are transitory (earth-composites are transitory, but earth-stoms are eternal)

But it is very noteworkly that Uddyokkers in this criticans of the interfersh hardly ranses the quotion whether it includes a statement of spight in the same at M is T^{-1} . To sees the word rapid, but in the same of paketherids H with the interfersh shall be a state of the same of paketherids H with the same of the sam

But the latter is ambiguous. Does it stand for (i) bhavaty evänumeye sadbhāvah,

or does it stand for

(ii) anumeya era 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' (asambhave niraatypate, non-co-existence is set aside). but you do not indicate whether 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 apaksa or XP. And the restriction does not give the required force in any case: for it says that 'only SP is M '; and this does not imply (what we require) that 'all SP is M '.

As to the first main alternative, (a) above 1 c taking the 'eaa' after the second word (uttaram "vadhäranam, i.e. anumeys adbhäa eag.-contrasted with pärsam avadhäranam, 1.e. eva taken with the first word in the sentence, anumeya eva sadbhävah): the Bauddha says that this gives the meaning of a vyäpti (tasya vyäptir arthah). "Even so,' It is the anumeya, SP, that is 'distributed' by the universality of preducation here (avadhäriam vyäptyd)-mot the property, viz.,

(b) that he refrained from raising the question whether the requirement of sydps was or ought to be formulated in the trainflygs because he does not wish here to anticipate the discussion of sydpis, which forms the chimax of his criticism of Buddhust logic

Uddyotakara himself rejects the notion of *sympts* universal connection between qualities in the abstract, as miniciligible. See below Chapter IV, section 5.

¹Uddyotakara begins with a statkopi-form so'-which implies further critican. But his critican starts with the sameson that the first clause than auderstood, meets the difficulty first raised for it does formulate the requirement that all SP must be M-the requirement of pakaathermst4. But then it makes the second clause superfluous. connection (dharma): for the principle is that the restriction applies to something other than that to which the particle eva is attached (gata evakaranam, tato 'myatrā' radhāranam iti). That is, when the eva, 'only', is attached to the predicate (sadbhāra, in the statement anumeye sadbhāra eva), it is the subject of the proposition (anumeya, here) that is delimited (avadhārita, i.e. 'distributed'. Cf. the formula of our schools logic 'only P is S = all S is Pl'.

By the addition of the restrictive particle to concomtance-with-M, the animeya (SP) is restricted (to concomtance-with-M, i.e. is 'distributed'--miyata); but 'concomtance' is left undistributed (prasta), owing to there being two possibilities, viz., equipollence and greater extension (ryäptyatväypithytäym, i.e. it may be that all cases-of-concomtance-with-M are cases-of-SP; but it may also be that only some cases-of-concomitance-with-M are cases-of-SP)'

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 Buddhst formula rightly excludes the extension of M to non-P in its third clause, *nästitä 'sati*. But then the second clause *tattulye sadbhāvah* becomes pointless, seeing that all that the second clause desires to assert is

^{&#}x27;V&caspail gives the case of 'the lotus is blue'. This admits of three areaflatranas, expressible in English by accentrating (i) the subject'. *The lotus* is blue', ie nothing elses is blue (ii) the products the lotus is blue, ie not any other colour (iii) the copula the lotus is blue, ie is anot time that the lotus is never blue.

[&]quot;The expression us clumary because and/hätes or semphases (estelence of M in SP, concentratore of M with SP) has been made the predicateeutesians or dharma, as tiddroithara and Vicaspath here respectively sall Hof the proposition II is the 'wi 'that has the 'only' attached to it, in the Present reading of the proposition 'SP is M - SP is only (inserf fails to be) M - Than amounts to saying that SP must be more any concentration beforeM. That the second the SP must be more any concentration beforethe second second second second second second beforethe second second second second second second beforeM (As the western schoolman would say, it does not tell us that all M is6 P)

simple concomitance (i.e. not universal concomntance) 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 *ativgait*, 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. Uddyotakare asks again—what restriction is mean+? 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 predicate, sadbhāva, so that the proposition would mean that M's existence is restricted to XP's: with the result that this latter clause would sublate the former, which asserted that M is found in SP'. It is not possible to say 'feed only Devadatta, and Yajñadatta'; and so, here also, the sentence 'the middle term exists only in XP's, and in SP', would be the language of a lunatic (unmattatkyu)³. If you adopt the other alternative and interpret the clause to mean tattulye sadbhāva 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 similar cases

[&]quot;Purrotizeropeids balance blassich I have followed Dr. Jha's miceprisiton here. Viscanget Michie howeve erginane the phrase to mean that the first and the third clause of the frarefaps are sublisted by this interpretation of the second clause.—the first, because it is contradicted by the second; and the third, because it only asys over again what the second is thus make to asy (generarityterod).

¹Dharmakiri howwer defondel met thu position, under the name of semescivamidiseddarya or 'aggregatire resinction', as a stated by Vacapati Mira. See Note B for Vacapati's criticuam of this doctrine There is no indication this Udoptakara was acquantied with the vzer, as beld by Dharmakirit. He is meetly giving an example of what he regards as alvaros self-constructional, He is indicative parts p. 268 D 1, p. 268 D 1, p. 208 D 2, p. 2

(sapakşuskadešaertti, 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 prayatnanäntariyakatea', would not' be a valid middle term.

What the Bauddha wishes to say is that M must be found 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 'acadhāranas'.

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.e. an argument in which there are no aspaksas.

Uddyotakara now proceeds to the criticism of the third clause of the definition.

"The clause nästitä '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

³Yas tayatiyasyaskadefavritih prayatnandniariyakatvädis tena so hetur its präpiam Jhä suggests the true reading . . te, na sa hetur , which is confirmed by the Benares 1990 edition of NVT, ad loc.

This text (p. 192 l. 9) gives what is clearly the right reading .

stad eva sphorayats YA sts. te, tava darsane.

[&]quot;The sensi form of the muldis term is preparationstructivelected (which of course makes no difference). The sugment is sidely integration progetationstaries and the sensitivity because an effect of voltano", and as no at the torw which types of voltagement to the star of the sensitivity of the sensitity of the sensitivity of the sensitivity of the sensi

This makes it plan that the true reading of the NV must be that implied in Dr Jhlé's rendering, vis, . . . is, no so heter its proptom (instead of time so heter, etc. in which the Chaukhamba and the Vananagram editions agree, wrongly). The older texts of NVT reads etcd ess sphoregists ITI TZ, on which the editor notes itedim madritedstrikaputatka Hefti.

cannot serve as a ground or support $(\bar{a}dh\bar{a}ra)$ of which something can be denied ".

The Bauddha makes the usual reply—this clause too has the purpose of avadhārana, restruction. Uddyotakara asks: what is restricted? Do you mean (1) nāsitārā 'satā' or (2) asaty eza nāstitā? If the former, the clause is superfluous, for it would be understood without mention'. Suppose then that the latter, asaty eza nāstītā is the meaning. Then an argument like 'this is a cow, because it has horns' can claim the title of valid reason. For the non-existence (nāstitā) of horns is certainly restricted to what is other-than-cow, and so the condition asaty eza nāstī s satisfied. though the condition nāsty eza would not be satisfied.

asaty esa nästi means that M is absent only in non-P, 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 ndsty era 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 eta ripakse, i.e. the hetw must be absent in all the vipaksay And Uddyotakara's only objection to this formula is that it has already been stated in tattulay are sadbhātoah³.

'It 'would be understood' from the previous clause, tattwlya eva sadbhāvah

The previous clause having been interpreted to mean that 'all existence of M is in XP', it is superflucus to add that 'M never exists in X non-P' See also next note.

*Všcaspati says (NVT p. 130 l 5) prathamam kalpam dūsayats ¥ADI TĀVAD sts. Tattulya eva sadbliāva sty anena gamyata sty artheh.

Note B.

Dharmakīrti's doctrine of the samuccīyamānāvadhāraņa as criticised by Vācaspati Miśra (NVT p.129).

The difficulty is that the Bauddha has so interpreted the first two clauses of the trairūpya, by reading 'avadhārana's' into them, as to make the first canon state that the muddle 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'. 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 the first. For, as Uddyotakara puts it, only a lunatic would say 'feed Devadatta only .--- and feed Yaiñadatta'. Vācaspati 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 (nürvanadena saha rirodhe nidarsanam āha NA HI BHAVATÍTI-NVT p. 128 1 22) He then goes not to state the doctrine that contradiction in such cases can be avoided by understanding the restriction to be aggregative (1 e. if the 'only' applies to the aggregate Devadattaand-Yaiñadatta, there is no difficulty). "The opponent suggests that in saying that the middle term must reside in the subject SP, and in the sapaksa, 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. (samucciyamānāvadhāranam vipaksamātrād vrttim ruavacchinatti, na tr anumeuāt). An illustration is to be

Dr. Jbs has overlooked this interpretation of Väcaspati's, and takes the passage as meaning that the word costs is superflows in the phrase wasticated lott. But Väcaspati's interpretation is clearly correct

¹This accurately represents the Buddhist formulation of the trainflyer with the help of even, as given by Dharmakiri in the Nydyabindis anumery estiteom exes. aspaker acts aspitate mainteem and (NP p. 104 l. S)-

found in the sentence : 'In the beginning he generated from himself two sons,—Nara and Nārāyana only (Naram ca Nārāvanam epa ca)'. It is with a view to this suggestion that the Vārtika 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 lunatic¹. 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 anumeue in the first clause (anumeua eva sadbhävah. 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 (anumeyaikadesarttiir api hetuh syät)³ And (in the sentence quoted as a parallel. 'he generated two sons, Nara and Näräyana only') it is certainly not the case that the particle eva ('only') is attached

*See Note A above, p. 252.

[&]quot;The sentence translated m Note A above, p 264. But, as noted there, there as no indication that Gdávdakars ar stever such as Dhermaktrin,---although Vicaspati scenes to suggest that he was --Ih the Udávdakars in geaks at al the peakshilty of a defance of skylinged the periods of the control of the default of the state of the default of the default

to the word Närāyana in the sense of precluding union (of the character of being generated by the being in question) with anything else (anyayogauyaaachedena), 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-ayogauyaachedena).

--Very well then (replues the Bauddha), it can be maintained by a person who wishes to avoid applying the restrictive particle in different senses in the two clauses, that the particle are in sused in the second clause also in the sense of precluding non-union with M in the case of the sapakşa, just as it is used in the first clause in the sense of precluding non-union with M in the case of the *sapathşa*. This is the doubt which the Värtika raises in the words 'If you adopt the other alternative and interpret the first clause to mean *tatulye sadbhāva eva*, etc.' and it disposes of the doubt in the word's then you exclude as invalid middle terms which reside in *some* but not in all similar cases^{3*}.

After some further discussion⁵, the argument continues as follows. The Bauddha urges that "It

"For these words of the Värtiks see Note B, above, p 264.—It is clear that Väcaspati is here reading into Uddyotakars a reference to the *semucciyamiaedadärsa* doctrane I do not think there is any indication that Uddyotakars had Dharmakirti's arguments in view See note 1 p 288.

"Omnited here because, turning as it does on technicalities of Minafstacke exception. I am uncertain as to its crack meaning. The Bauddi: appears to argue that the main statement (wich) is that "the middle term reades only in the apokta", and that the first clause "the middle term always reside in the packys" is to be read as an explanation (snasedda) of

[&]quot;That is, the sentence certainly does not mean "he did generate may have a sentence of the share way. In the transform the transform that the sentence of the

cannot be said that the two sentences cannot unite mto 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 (*anyuquogavyaechedasya*) which is asserted in the statement that the middle term resides only in things like the Subject (*tatilug event*) can also be understood as having reference only to things unlike the *subject* (and not to the subject itself. *vipakyamätrarigagatemäpy upapatiau*). 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'.

this Thus there is no difficulty in making a unity of the two clauses — The Naydyiks replace that there will be a break in the sentence-unity (skyabheda), because a genuine enuseda must not add anything to the main statement,—andigamdanis na oxisețium iskyate.

¹dornald angepolicithateness padinatin errodio cakineyab — The word padinatis may be constructed enter with the preceding word (in which case the sense is the meaning of words consists in acolution of what is other); or with the following word (in which case the sense is the mutual contradiction of the clauses .). I have industed the ambiguity by the clause in Drackets in the transition

Bicherbasky (in it Marion is vol. 7, 1904) has connected the formusition of the traverges by means of seaffarms with the apphased in The connection is explicitly stated in this passage, which therefore confidence subscretarily way. But his information that has use of the seaffarmage is therefore hornoved from them by Prasasipath corres no weight for the use of seaffarmage was meritable, spart from the apple theory.

Nor is it quite clear from this passage that is it the StaddAs humself who argents that the classes of the foreripps are to be read in the light of the spoke theory. The present semicone may be read as coming from the month of the StaddAs-theoredro if you are going to above that the sad your proof must bear in mind our raw that 'meaning' is nothing but syng what a thing is not." But it can as well be read as from Volkenpati humself, 'therefore (semig that you have put up a defined against Uddynot proof must bear in mind our raw that 'meaning' is nothing but humself, 'therefore (semig that you have put up a defined against Uddynot proof of the semigravity of the semigravity as a semigravity of their on your vow prompte the clauses of the foreripps are mutually contradictory. This latter reading better suits the connecting phrase which follows, TablA by for tablA by always dinches a statement pix made,-connecting the two seminose otherwas is in indicated by the sentence which I have meeted to brackets in the translation. (Well, mutual contradiction can be established from this point of view.) Thus ' in the clause 'The middle exists in the Subject' (anuneye sadbhārah), the meaning (of the words and of the clause—padārtha)' 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 eca, nānanumeye, sadbhāca eva, nāsadbhācah)'. And thus the absence of the middle from the sapakṣa, as well as from the vipakṣa, has been stated ! In the same way also in the clause 'The middle exists in things like the subject' (tattulyasadbhāza) the meaning of the words (or clause—padārtha) will be 'The middle exists, i e does not fail to exist, and exists in the sapakṣa, i.e. not in what is not the sapakṣa'. And thus its non-existence in the Subject is declared !

And if you say "we'do not assert (na ca ... iti cet)" possibility of an aggregation (samuccayasambhara) of the meanings of the terms (padarthayoh) 'subject' and 'thing like the subject', as mutually exclusive meanings (parasparaparihäratach) but we assert actual aggregation together (parasparasumuccayasadbhāra), on the ground that both terms alike signify exclusion of simply what is different from the subject (maksamātrayāprtfiparatrāl)". —then our reply will be that this is

But Vicespati does not concern humself with the permutation of 8 $\frac{1}{2}$ and $\frac{1}{2}$ does not concern humself with the permutation of 8 $\frac{1}{2}$ does not a subscription of the subscription of the subscription bases at $\frac{1}{2}$ does not $\frac{1}{2}$ think it is possible to understand this cully by sense is that the Buddhus restates his doctrine of same/symdified dotting at the light of the oplocation. We do not maxes this SP and XP are two different things which form an aggregate by a line ling $\frac{1}{2}$ m maxes what is not opposed and XP means which is not explore $\frac{1}{2}$.

"What the Buddhist is really siming at is clear What is not SP, and what is not XP, are both identical in the important sense that both are

¹again the ambiguity in *pada*, noted above The equivocal use of the word here seems deliberate, as intended to mark the connection between the discussion of the measing of the clauses-*pada*—of the *trainipya*, and the *Baudha* theory that the meaning of words-*pada*—lies in *apola*

[&]quot;This is the meaning in the light of the apole theory. According to that theory S is P should mean ind-non-S is not-not not non-P? But Vicespati does not concern himself with the permutation of S

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, *simānādhikaranya*), since the meanings of the terms 'tree' and 'cow')' will be indistinguishable in so far as both alike signify exclusion of elephants and so forth².

In other words, tracks (as necknap wint is other than the packs or any anymap) shares in the ambiguity of the term packs or anymaps, which sometimes means abstract P and sometimes concrete ST. The Banddie has formalised has brainings or cancend evidence as an affar of concrete ST and XF, however—not in terms of relations between an abstract B and an abstract P. But he now wavelet to profit by the analoguity of the term and pace of relating are able to profit by the analoguity of the term and the start of the start of the start of the start of the term and the start of the start of the start of the start of the start and the start of the start of the start of the start of the start and the start of the start of the start of the start of the start and the start of the start of the start of the start of the start while start of the start of

(Viscapat's attitude will lead to a difficulty which he does not raise, wr., that the cosekos ai douriest with the rapekra, in so for as both are other than-SP. This may explain Dharmak'itris clones of the term as a parks, in piece of explate, in the Nydgednare, which will be an iterative the second second and the Nydgednare, which is a both excluding the sequence).

¹näörkso 'gaur ity anayor api hastyädinisyttimätraparateenäbhunnärthayoh sämänädhikaranyapraaandit. (The na stauds alone, referring to Lie sit oct of the preceding clause)

The general meaning is that the application of the opplication justify the identification of animeps and sepsign—SP and XP—would prove too much for it could also be applied to prove this is cow is a tree If SP and XP are identical in so far as both exclude non-P, then a cow and a tree are identical because both exclude elephants and other things.

"VScapsi conclude by saving that the doctrume of the samu-rigmanagedhärege has not the authority of Dunniga, and is in fact increases with certain of his criticizes of the Vadeshas (See Dunnigg Framents p 15) 18 is Dharmakith's own doctrum Samucigendhäredhäredhäred bladhäsen Kritch estantyreque (NVT p. 190 last line).

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CHAPTER IV

THE PROBANDUM

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

Mranng of the problem-Dohaga on the probandum-Kumkris on the nature of the "term" in unforence, and on the "probandum-Cudiyo iakara's critique of theories of the probandum-His attack on the "import premue", io the noison of manparable connection in the abstract (assubheep-His own view of the probandum-Kumkris as in the form of the conclusion (=rojection of "Fourth Figure" arguments)-Kumkris's reference to Uddyotakara's theory.

EECTION 1 MEANING OF THE PROBLEM

Vätsväyana, in commenting on the sätra (NS I i. 5) in which inference is described, gives an illustration of prirvarat inference, —' fire is inferred through smoke' (dhämenäqnih. NBh. p. 19 l. 2) He notes elsewhere the ambiguous use of the term 'probandum'' (säähva), pointing out that it is used to mean either the property qualified by the thing (sP) or the thing qualified by the property (Sp)—säähyam ca duvudham : dharminsisio va dharmai, säödasjuntuatoam: dharmarsisio va dharmai, anityah säöbda iti (NBh p. 41 1 10). But he does not specifically raise the question which Dhināga, Uddyotakara, and Kumārila diacuss :—What precisely is it that is inferred m an inference^{*}

¹The earlier loginians were baunted by the ambiguity of the term *eddings* or *animetys* Dihnkgs seems to have been the first to make s serions effort to lay this equivocal ghost (the eight lines in which he does so are fortunately cited by Vécaspati n NVT p 130, see Dinnégs, Fragment) Prastationals does not deal with this difficulty Dinkes was followed

Four views 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 infor the relation between that we infer 'fiery smoke.' The statement is, in a sense, accurate; but it conveys very little as to the real point at issue We are told again that Uddvotakara denies universal connection (anināhhāna) 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 apparently suicidal attack on the major 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 l'idyotakara'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 kill is firzy, but that this smoke is firzy) I thas certain affinities with the Aristotelian doctrine of 'essence', and Uddvotakara's attack on the major premise is of permanent value But his yratimar's (the realisation that SM is essentially SMP)

re peculiarly difficult to understand. See HIL, a statement of Dinnaga's view

and criticuted by Uddoyatakara, who discusses this question in NV pp. 52 | 11-54 |. 2 --Then comes Kuthärila's discussion of the same topic, in Slokasärika, anumänapariccheda, verses 23-53. He refere to Uddyotabina's view

was not developed into a positive doctrine of individual essences which might have been a constructive substitute for the 'vyapti' 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 perhaps surprising that the ryapti doctrine held the field in India, despite Uddvotakara's criticisms : just as the teaching of Aristotle's Prior Analytics (or the schools logic which developed out of that teaching) has in the West supplanted the more truthful and therefore less easy teachings of the Posterior Analytics. Logic in practice is a rough-and-ready art. and tends to the convenient rather than the truthful formulation. Thus both in the East and in the West the great class of reasonings which develop relational concepts has been ignored in the formulation of inference for they do not proceed from a rvapti or major premise on the one hand; nor do they lend themselves to formulation under Uddvotakara's interpretation of the dharmidharmabhāra rubric.-In another aspect Uddvotakara's doctrine is a re-assertion of the original Indian view of inference as an affair of examples : for it insists 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 DINNAGA'S DISCUSSION OF THE PROBANDUM

Dinnaga 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 it 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 P. arguing that neither S nor P can be the probandum: since both are already known -Dinnaga objects that (i) the anumeya (in one sense) must be universally predicable of the middle term. But we do not say that all smoke is 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 18 fiery. Language bears witness to the fact that the anumena is (in one sense) fire, and (in another sense) the hill, i.e. it is Sas-qualified-by-P .- not the relation between S and P. The relation does not show these two aspects (sambandhe 'n dvayam nāsti). Besides, if 'relation' were the object of the inference we should use the genitive case (parvatasyāgnir asti) instead of the locative (parvate 'gnir asti). It is true that we may express our conclusion in the form parvato vahniman,-the hill possesses fire : and ' possession ' 18 (according to the grammarians) just the significance of the genitive case. But this ' possession ' is not the primary object of the assertion, being on the contrary only a subordinate ele-ment in the assertion (avācyo 'nugrhītatvāt)-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. Thus is Dunnāga's own view. " The invariable concomitance of the mark with the property is seen no other cases. and being established therein it will prove the subject as joined with the property (i.e. ut will prove S-as-qualified-by-P)."

The lines from Dinnāga in which the above discussion is embodied would hardly be intelligible in themsolves. But the first part of Kumäria's treatment of the topic is an exactly parallel passage,—written probably with these lines of Dinnāga in view. The result is that Pārthasārathi Miśra's lucid comment on the passage in the *Slokarārtika* 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 *Slokarärtika* passage, as being parallel to the criticism of Dinnaga . then to deal with Uddyotakara's criticism of Dinnaga . and finally to translate the second part of the *Slokarärtika* passage

SECTION 3 & L'MARILA ON 'TERMS' IN INFERENCE

[Slokavārtika, Anumānapariccheda, 23-34]

Upāttas carkadesābhyām dharmy apy atraikadesavān

Sabara's Bhāgya on MS I.1.5 (p. 10 l.11) has defined inference as *jātasambandhasyaikadešdaršanād ekadeśāntara* 'saminktęte' rihe 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 term¹." Kumārila supposes an objection to be raised to this definition on the ground that it mentions the two terms (M and P of Western logic), but fails to mention the ekadeśin or ekadeśacat—the possessor of these two 'aspecta' or 'kerms'—the Subject (S of Western logic : pakşadharnin, in Pārthasārathi Miśra's terminology :=anumeyadharmin, sādhyadharmin). 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. apärärthye hı dhümädeh svarüpaır naıladeśatā

"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 justifying his statement that mention of the Subject is comprised in the use of the word 'ekadesa', 'term'. The meaning is that to call 'smoke' and 'fre' terms (ekadesa) is to imply a Subject—since only in reforence to a Subject could here be spoken of as ekadesa.

In footnote 2 to the first page of the Note on the Istain Suplaymer (Mend, XXXIII, n. s. no 182-1094-p. 398) two stated that "indual logic blues on generic name for the term.". The statement needs qualification must wore of the use of cleadies—no a sense very cleade to that do not term... In the present passage of the Stekenstrike And Dunkings in one passage (Fergmann IV) uses ends with the case on which Kannakha krouwes eladet as "but we abould call the third or more ferm, the 6, is contrasted with the eladets', M and P, as long eladets by term', we shall have to say that the Induan relations of the terms of the terms."

24b. sa eva cobhayātmā'yam gamyo gamaka eva ca

"And it is just thus, the Subject, namely, that is both at once, i.e. both probandum (P) and probans (M)¹.

25a. asiddhenarkadesena gamyah sıddhena bodhakah

"Through the unknown aspect of it the Subject is probandum—to be proved : and through the known aspect it is probans ".

Pärthasärathi Miśra apparently says: "An ekadeśa or 'term' could not be the anumeya or prolandum, 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 tining that is to be proved. It is thus fact that the Subject (pakşadharmin) is the probandum, that is declared in the Bhäsga by using the phrase 'not present to sense' (tasya' sambandhagrahanasamaya era grhltasyā 'nanumeyatedt. Tad udan paksadharmino 'numeyatema asamnikratgarahanena Bhåsja daršitam)''.

On 25a Pärthasärathı says "He dıstıngunshes the two aspects, as probandum (ganya) and probans (gamaka) ın thıs line. The being probandum (anumeya) is in respect of the character of having fire (cahrimatteät-

¹taeya ekadeśasya.

¹²Berhaderich explanae lingsingsindedseeltagie bhogeting, is the both probuse and probadram bocame it has the two nepeta-(-) of M, and (a) of bang a thing which postesses M. In the former aspect it proves P. In the latter aspect it is that of which P is to be proved. It is railer difficult to find a formula which will serve to characterise the subject in the latter aspect it is that of Which P is to be proved. It will be a server of the server of the server of the server difficult to find a formula which will serve to characterise is shired to have the property to be proved, because this phrase is almost self contrilater long uses the formula m. Under R is longer ddags, to be proved latter long uses the formula m. The server is the difficulty but this formula su unastraticetory too.—It is no test, to avoit the difficulty that Terhaderical uses 'lingen's here.

mana), which is asiddha in the sense of not being known by any other source of knowledge (i.e. other than the inference itself) • the being probans (gamaka) is through the character of pocessing smoke,—which is known by another source of knowledge'' (i.e. by perception. The hill is perceived to have smoke, but the being on fire of the hull is to be inferred).

He introduces the next line with the question: "How then is this animegaikadesin, or Subject quå probandum, to be brought in (upādātavya) in the syllogism (sādhanarākya)"?

25b. atah prthag abhinno vä prayoktrnäm uvaksayä

" It is expressed differently according to the intention of speakers; 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 hill because there is smoke there."

Pārthasārathı explains : pṛthag ekadešābhyām vaiyadhikaranyena, abhinnas tābhyām sāmānādhikaraņyena.

—It is apparently merely a question of the form of the proposition If M and P are expressed as adjectives of S, it is said to be a case of sâmârâdhikaranya. since when a thing is expressed as an adjective it is co ipso referred to the substantive as its locus—the adjective being samānādhikarana, different in respect of locus, because each is its own locus. When an adjective

¹⁷ his latter will be the mode of formulation which Väisyävana had in mind when he said that fire is inferred by smoke. The fire here is treated prikel,—as separate from the hill if however we say that what is inferred is 'fiery hill', we should be treating the hill and the fire as 'non-separate' for by turning fire into an *adjustual discussed and adjustication and adjustication of the second adjustication of the second adjustication of the second adjustication adjustication of the second adjustica*

is predicated of a substantive, the relation is that of identity-Mdātmya, or abheda', e g. in 'the hill is fiery'

 anityah krtako yasmād dhūmarān agnimān iti dharmyabhinnam upādānam, bhedo 'trāgnir itīdrše

"In such propositions as 'sound is transitory because it is a product', 'the hill being smoky is flery', the predicates are stated as identical with the subject : whereaş 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 scenus to say — It is 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 syllogismig (prayoktrātan vicakā). But in the verses which follow (and which are closely parallel to the lines 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 Sas-qualhfied-by-P. Neither 'P alone, nor S alone, nor even S plus P, nor even the relation (as such) between

The implication as that there are other forms of predicate in which the relation is non-crossensity during and predicate in the state of the state

Linu suggests that a julignment correspond on soord (s.#dbdbobdb) cannot but states a relation of itsdffings or abbded, i.e. the logical form of proposition is necessarily subject ... could be discussed on the formula of Western schools logic — Burt what Kumichin sectors to any here as that this form is optional . And this would seem to mean that a say here is that this form is optional . And this would seem to mean that is (solumne) with the subject.

S and P, can constitute the thing to be proved Your conclusion need not be a proposition 'in logical form' joining P to S by a copula of identity ($t\bar{a}d\bar{a}tinya, abheda$), but it must be a judgment ($iisistaj\bar{a}\bar{a}aa)$,—in other words S and P only constitute the probandum (or conclusion) in so far as they are related as qualification and thing qualified (risiseganariseganariam monnan)

- 27. ekadešarišistaš ca dharmy evätränumīyatc na hi tannirapeksatve sambharaty anumcyatā
- 28. na dharmamātram siddhatīāt, tathū dharmī, tathobhayam ruastam rāni samastam rā svētantruenāmumīnate.

ryastam rapi samastam ra svatantryenanumiyate.

- 29. ekadešasya lıngatvam sādhycnānugamo 'sya ca drayam ca na syād ıştam sat pakseşi eşu yathākramam
- 30 anityatrādayo dharmāh krtakatīādayo na hi dhraninānugamo naişām nobhayasyobhayena iā
- sambandho 'py anupädänän nämnä saşthyä pı iä mitau,

na cāpy anugamas tena lingasyeha nīduršyate.

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=dharmin) there could be no probandium (lat., the state of being anumeys is not possible). Neither the quality, P, alone, nor the subject, S, nor both of them, collectively' or distributively, can in itself be the thing to be inferred; because each of these things, in itself, was known prior to the inference."

[&]quot;They can be taken collectively without predicating one of the other---'hull-and-fire' Parthasärabh points out that "tayor systayoh samastayor ed anyonydoxistardpens mismingatoam "

29. "Among these alternatives, if we take the cases in order (yalhākranan) we find either (1) there would be no aspect of the pakşa to serve as a middle term (ekadsaşya ingalrain na syāl); or (2) there would be no univeral accompaniment of the middle by the major (sädhşenănugamo na syāl); or finally (3) both requirements would be absent (ekadc/sasya ca lingatrain, sädhyena cānugamaḥ --these are the 'drauga', the pair of requirements) - although these requirements are desired to be present (istain sai) ''.

i.e. taking the possibilities yathäkramam ---

(1) If our anumcya were 'non-eternality' ', krlah-atsa would not be an ekadeśa of the anumcya 'non-eternality' 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,' etc., which are to serve for middle terms'." [In plan English we cannot say 'non-eternality (of sound) is the quality of being produced'—we cannot say 'the mortality of Socrates is his manhood It is not. Mortality is mortality, and manhood is manhood Men are mortal, and mortals may he men 'but that requires a different formulation].

30 (b) (2) II again our proposition were about the existence of sound³ you could not formulate a major premise in which the middle, *krtaka*, was asserted as universally accompanied by this animeya, i.e., by sabda. It would be absurd to say 'all products are sound 'like a jar' (dheannänugamo naisäin. egäm means krtakaträdinäm,—muldle terms hke krtaka).

^{&#}x27;i.e if the dharma is taken to be the anumeya.

³1 o if the dharmin were the anumeya Pärthasärsthi says fabdä sistaaratinääyäm But ii is unpossible to formulate this theoretical possibility --in which the dharmin, sound, is sloc the anumeya --as an actual inference

(3) If again our proposition were about sound-and transiency', then nobhayasyobhayena vā,-which Pärthasärathi explains by saying " na krtakatvasuobhauadharmatnam, sabdamātradharmatnāt ''. The meaning of Kumārila's words, confirmed by the phraseology of 29(b). dravam ca na suād, seems to be that '' there would not be co-existence of both the requirements (ekadeśasua lingatvam. and sadhycnānugamah) with both, i.e. with dharma plus dharmin, taken together as being the anumcua Parthasarathi's comment shows how ekadeśasya lingatyam is precluded.-viz., kriakatyasya śabdainātradharmatvāt. You cannot say that "word and noneternality are effects " because though 'word' is an effect. non-eternality is not And sädhuenänugamah is also impossible, for we cannot say that " where there is hrtakatra, there there is sound-and-transiency ; as in a jar ''-for the reason explained under (2) above.

31 (4) The fourth possibility is that the relation between the hill and fire, between sound and transiency, might be the anumeya. This is 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—paratasyāgnah, also on the ground that in the major premise (nidarśana) we do not say that the middle is universally accompanied by 'the relation between S and P.'

^{&#}x27;ı e if the anumeya were dharmîn plus dharma. Pärthaušrathi says sabdānityatvayok sadbhāvapratijkāyām

[&]quot;Disclosization areas "it is not ordinary usage to say "parentsatomy esti--three is first of or belonging to the iull--root is say three is relation of firs and hull--But it is critinary usage to say parent "gur sti, is to use the correct of locative essentiletion here -What is the meaning of the insistence in all these passages (the fragment of Divings, the Medjardinhough we do speak of first on the bull -The bulk and grannarman hold that though three as event assume the bulk-The bulk relation grannarman hold that for a parent of the bulk strain and these as far and parent of the bulk exhibition of the same three says for any strain and the same sufficient of the same strain of the same far any strain of the same sufficient on the same strain far any strain and the same sufficient of the same sufficient of the same strain strain and the same sufficient of the same sufficient of the same sufficient of the instruments of third case unflection where the verb as in the passary

32-34.

na cākāradvayam tasya šādhyasādhanabhāg bharet tasmād arthagtikitatvān matubarthasya gamyatā na srātantrijeņa martavajā yaktā dandyādisabidatah rišistārthapratītan syāt sambandho nāntariyakah rišesaņavisesyatram āpannau drāv imār atah gamyāv ...

"Nor has the relation the two aspects (so that) it could play the part both of sādhya and sādhana (as the genune autoneya can do). Therefore the possessive affix mat (parcato cadmimān dhūnarcatitāt) can only claim to be gamya or sādhya no 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 a qualified object derived from a word like danţin, 'having a stick' ". (For, in this illustration, the stick is mentioned prakriyā, i.e as the princigal thing, while the relation is only referred to pralyagena, i.e through the suffix Pärthasārathi, ad lac) "It is only where there is the thought of a thing nualified

Thus the arctic or genuitve case-milecton has no identic-function for entry terms of the relation between mounts, and not between none not work by Drapin II in 50 aws arghi idea—"the genuitve is used in other sense" which the commentators explain to meas enters other than that of the vir $\lambda r a \lambda a \alpha$, and other than that of the bare meaning of the none (write) distribution, which the genuits in the sense with the sense with gender and the interval of the bare meaning of the none neutron (write) distribution.—for matsizes the relation between a thing and its owner (recorreling) distributions between a thing and its owner (recorreling).

The genuine then is the inflation proper to mere relation-some bondham- is to relation no turgeral to be action which is the left of the sentences are approximately a sentence of the left of the sentences of the left of the left of the left of tackets the genuine would be used of one thing prostances a could be thoug? We must approace then that the position of these who held that what we apprecise to putting the coordination of these who held that what we apprecise to putting the coordination in the form 'first so is the hell' for that would appreces a kirket-ambiention.

rone, or by the verb termination where the verb is in the active value,—for the first or nonmative (assemblished or instrumental (ass), the 'detree' or improvement, korana (third or instrumental (ass), the 'detree' or 'ablates' or aphdama of the action (aprice) flow of the value (assemblished (the active) (assemblished (the active) (assemblished (the active) (assemblished (the active)) (as a set of the action (approximate)) (as a set of the action (approximate)) (as a set of the active) (as

by properties that we can have inseparable connection of properties'.

Therefore these two (dharma and dharmin, P and S) can constitute the probandum of the inference only when endowed with the condution of being qualification with respect to each other".

SECTION 4 UDDYOTAKARA'S CRITIQUE OF THEORIES OF THE ANUMEYA

[Translation of the discussion in $Ny\bar{a}yar\bar{a}rtika^2$ (pp. 52-54)]

"Others give a different account' of the illustration which the *Bhägga* gives of *pirrarat* inference, viz., that 'by means of that same smoke a man apprehends fire'. What precisely is it that a man apprehends

'On this Vácaspati reunarks tatra Dinnögadikstön kalpän, annänse ca sikälpän, Dinnägaanmatlintam ea kalpan upanjaaya disayati---NVT p 120 1 18 ''He refers to and criticusen the alternatives arriticed by Dinnäga, and other alternatives, and the alternative accepted by Dinnäga''

The Bhang (μ 42) has suggested that the ret m phenometry is the extra start r = cot in the same of lock, on the phenometry making of phenometry is plate methods for any start start of the start

⁴Dr Jhš musses the connection of thought because he ignores the era here And the point of the discussion which new follows is obsoured unless the connection here is realised The perularity of Udjotakarš's view of

^{&#}x27;appl combandlon ministripskal. Tärthasärathi vaya combandlan in ministripskalasa 'esgamyata- bub its her fatton is undi ratoo das mesparable. There is parallelum with the language (1 Dun iggs' dubnitson of anymates as ministripskalasalasan-rangenets G. H would seem that Kumärnia is urgung here the objection against consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities which is urged by Uddya takara giao see belve the 280 for a consibilities of the consistence of the co

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' is not possible between them,—that is to say, fire is not a property of smoke, nor us 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 as just thus, that he inferes to admit that the monke through which we now mic—whitever exactly it is that we under—s the definited amoke of past experiences. In order to elucidate this point he proceeds to raise the further question which we finally grees scenes to preclude the possibility of holding that the first which we are said to mice in just exactly the fire of periodic experiments. The position is that mether the fire inferred that first which we have pervising experiments which we have pervising experiments of the mether is the mether in the single exact that first which we have pervising experiment. Which we multist first which we have pervising experiments. Which we infer it is a single scene, qualified-by-fire and the means by which we infer it is significar models.

This means that Uddystakan definitely rejects the view of inference s based on a vights of annohe by fire The formulation of a "major premuse" (where there is smacke there is fire) is only of use to those who addnut that the smack and fire of previous experiments are the identical smackes and fire hierarse (officiently), and not from identity —That is, the path in spitch previous (officiently), but likeness

This explans (1) the sitesk on serubbles embodied in the present passes, (3) the scriptance of inference from cause to effect, which if based on a spight or connectum or abstract characters would be sergeblectra, i.e. would involve as undistributed middle term (1) two as a arguing from the base particularly-characterised clouds to rain) we can as well argue from cause to effect as we can from effect to cause

The whole thing may be otherwise expressed by asyng that he substitutes paramarks for eydpt as the nerve-the karags or instrument-of inference. The paramarks is the realisation that this particular case of M, under the concrete arcumstances, must carry P with it He will have nothing to do with assertions, in the abstract, of M burg always P.

determediarembifesionappointes. The principle here appealed to us steeded by Vecampian Marka NFP, 150 1.50-diarrenges at Marring predipathengis a property $M_{i,i}$ et al. not P that is a perpleaded through a strongh a property $M_{i,i}$ et al. not P that is a perpleaded through M_{i} another property $M_{i,i}$ et al. not P that is a perpleaded through M_{i} another property is what is universel through M and Kumarha insiste that an elsaders is universel through M_{i} and M_{i} another M_{i} and M_{i} another M 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 probardum,—No' because the smoke is not the property of this.—You mean that fire-possessing place might be inferred through the smoke. But this is not the case. Why? 'ataddharmatcht. That is, the smoke is not a property of fire-possessing place' (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''.

'In the next sentence Uddycakars, more see, amplifie in commentary form the sphoristic brevity of the first instement-ma, disfaurgidzafiermaticat. This is an excellent example of the numerous passage in which Uddycakars course the impression of commenting on a critation in Dr Jha's translation the second sentence reads like mete repetition of the first and he achiever second institley of serve in attempt and the distribution of the state of the second second second second second of the translation these isotologies sometimes seen mexpicable, and confustion translation theory is state of the translation theory is state of the translation of the translation of the translation of the translation theory is state of the translation of the tran

"Uddycatars takes agrundin defails first in the same of unspectfield for possessing piles, piece in generals so far as first possessing. The absence of a definite article in Skaulerit makes such manndersianings always possible balangs has statements first in the impossible sense. — Duel for the same reason there is ambiguity in Uddycatars's answer defamospiteddharmatcif, which might other means (as I have readered ii) that the same's an one is property of first possessing piece in general, or also that mode's is not to. In the latter say that make is such as a property of first possessing piece as such sistement which would be an aread-bles or universal properitor. Uddycatars' entranses of such investigations in the sate them to be the sate of defaunt of indefails as not y as the register them. In the sate difference of the same is not y to be the such as the difference of indefails as not y to be register them to have a base difference of indefails as not y to be most a property of first possessing piece as such as not is a sporty of first possessing piece as such as not y to be most as property of first possessing piece as such as not as the such as the difference of piece as not y to be such as not in the such as the difference of piece as not y to be such as not in the such as the difference of the such as not y to be such as the such as the such as the difference of the such as the such as the such as not y to be su

"This is Drinkga's own raw, and Uddvolkara now proceeds to receit it. But I hunk that what has just proceed as she directed squares Drinkga, and that Uddyotakara's point against Drinkga, both here and in the criticism of the forsigns (answinge' Mic attivity, eds) in that Dinkga mass the term answings equivosally For the purposes of his splight or major premise betake first or first-possessing place' in the unspecified sense " Thus will not do, because this has 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'' (The translator explans 'the actual place from where the smoke is issuing is not seen by the observer'. And this is at least a possible explanation. The remainder of the translator's note is, I think, mistaken'.— Uddyotakara's criticism 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 stated, if he takes the conclusion in this unspecified sense

'The punctuation of the text is wrong The passage should read keralam tu füngam abhidhänam uccërayati ayam deso 'gniman rts (NV p. 52 lasi line)

"If it is a missice, however, the mutike is Vicaspati's, for the translator is following hum in the scond part of the note to p 173 of the translator is following hum in the scond part of the note to p 173 of the translator is following hum in the scond part of the note to p 173 of the translator is following hum in the scond part of the instead barries of the sconder part of the sconder of the sconder

"Nor can you say that it is smoke as such that brings about the apprehension of fire: or (if you do say thus) 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 firery)."

SECTION 5 HIS REJECTION OF THE NOTION OF UNIVERSAL CONNECTION

In connection with the suggestion just made that fire is inferred from smoke as such,—Uddyotakara proceeds to an examination of the notion of *atriabhava*, or inseparable connection, between smoke as such and fire as such³. The passage is particularly significant because it appears to define Uddyotakara's attitude towards

M in general is P in general

This is M in the particular

Threfore this sr P in the particular-st amounts to a charge of parterios (semicones), Yoo control representation of the state of the s

*See Kenth ILA pp 104-105 Kenth connects the passage at NV p. 56 with the present passage. His statement with regard to the former passage that "Uddyotalarse carefully reduces a doctrine which attributes the name

This rendering as a conjecture, arthépett, derived from the mobissibility of getting sense out of the passage in any other way that I can discover. It differs widely from Dr. Juli's endering "it he asserts i we conclusion in the form 'thus place contains fire', he makes as anyty, mean I', the cognition of fire, and the Bauddla philosopher can never perceive for some (which, like everything else, as imperceptible), for these reasons any particular place same be regarded as the object of informace. The suggestion that the Bauddla philosopher is monopacitated from asseng mode counce ion that the Bauddla philosopher is monopacitated from asseng mode counce. The Sankint is -ma c diversion services any service of the same service register payets and the service of the same service as such and Dhaings argues (as he does) from a connection between muche as such and the asset is harding the same is built to that the angument objection service. Araticidan else, but not particular place but as an objection service Araticidan else files of the same but as an objection service.

the doctrine which is usually regarded as the outstanding contribution of Prasastapāda and Dinnāga to the theory of inference.

NV p.58 1.2 " It may be suggested that smoke causes us to apprehend fire through inseparable connection (avinābhāvena). That is : there is an 'inseparable 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 (vikalpānupapatteh). For what is meant by an inseparable 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 (tatsambandhamātra)? (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 (atadvrttitrat): 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 them1, (2) Nor is the second

¹The argument is baffling, because he ignores any kind of causation except material causation (samarāyikāranatā) Vācaspati Misra says

of sylogam to the demonstration of something as mesparably connected with something else', rofers to Uddyotkars's criticum of the definition of enumbra (instrument of infernatial koweldge) as adiatrykkitekaderfenam (adiatak) (seeming something with a immegarishy connected with something theory (This definition is Drahaga's fragment (). But Uddyotkars's connection with the compound is an importability for the something and the something and the something of the

alternative possible : (a) smoke and fire are not constituent cause of some one thing which resides in them as, constituted effect: for a substance is not constituted by, two Interrogeneous 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 is esaid—the third alternative—that [at any rate] there is relation (sambondhamatra—relation without further, specification) of smoke and fire, in that way too the imference is impossible. That is: How if the defendant contents himself with the assertion 'there is a relation' between smoke and fire? The answer is that this view is not tenable,—we cannot infer relation' between smoke

that only material causation is considered because the other two studied of causation will not be cases of 'inseparable connection. Thus in the case of efficient causa is not in a cost the case that wherever the effect is found the efficient causa is not find and the state of the state is a state of the state of the state of the state of the state is a state of the state is a state of the state of the state of the state of the properties of the cloth, for example, it is a equily unitrue that wherever the effect is found its starshear much be found (as is yield yield anyings, table is measured the state of the state of the cost state of the cloth is present also when the contact with the locm is not present'.

¹I: is important not to misunderstand the two phrases tad app anumatism na sakpats and na sambandhänumänam. It is not concevable that Uddytakar should have spoken of an imference' of unsersal connection between fire and amoke. So far as I am aware there is nowhere in Indian logn the notion that induction or generalisation is an inferential process.

"Viscopati glosses sembendhemätte by sentyoga that is, he undertool the present ruw to assert that ancke and fare act two unblances in contect. Viscopati ratios the 'form' (prayoga) of the inference in the hape 'there is relation of smoke and fare, as a result of smoke' (arts sembendho 'grudkämagor dikämad tit), is from smoke was infer contactwithdra. Now this mphas a 'mayor premase'. 'Wherever there is smoke there is contact-with-fare'.-Uddytakara's point is that we have had no such experience as would justify this pipto is annoke justify sumsettingon, 'contact-outh-fare'. For we often have exprenence of engenika-dhäma which then means annoke no in contact with far and fire, because no such relation has been apprehended : that is, because we see smoke also in the absence of fire'.

(A Bauddha however, as Všcaspati 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 substances³, but—like all other connections, e.g. that of colour and tangibility—as a case of ekasimagryadhinatayā 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 acinābhāza or universal connection).

The opponent now suggests that "the relation between fire and smoke will be 'concomitance', like the concomitance between the two qualities of colour and tangibility in what are supposed to be substances". Uddyotakara replies,—'This will not serve your purpose. because the two are not always found to gether (and so mere concomitance does not amount to universal connection, avinābhāva). Smoke is sometimes seen without fire, and fire without sunoke, and so (the experience of) their connection is not invariable, and therefore 'concomitance'—as implying universal connection—cannot be asserted³.''

^aNVT p. 131 l. 18—na h: Bauddhasiddhānte dravyam nāma kimid asti yatra rāpasparšau samaostau, kimžu eksašmagryaddinatayā niyatashacaryau talhā vahindhimāv api bidaviyyata sty arthad.

"But does not this amount to what was characterised above as 'the desperate position that smoke can exist without fire?' I do not think that it

We must not understand Uddynakars to be maninamm the rather seperate position that mole can easi without for. Kuth lates thus view of the passage ILA p. 105 "Uddynakars admits that there are exceptions to the rule of massouble uncome era in the case of smoke and firs, suce mole without firs, which contradicts in the fundamental assumption of the stock syllogian of the schools". It also contradicts the postilates of our supplicitation is deviced with the second school of the spectra and, more particularly, it contradict to didynakars's own doctrine of the inflagorithmics' loss that the total of the second school of the school of the second school of the second school of the second school of the school of the second school of the second school of the school of the

"The formula 'where there is smoke there is fire' is rejected by the very same reasoning". And there is o other way of interpreting the 'insegnable 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 (replies Uddyotakara): what we infer is that the smoke (has fire as its property; and we infer this through the nature of the smoke (dhimarissegnigmetissagasya dhämasya pratipädyattat) —Thut (it may be asked) how is fire a 'property' of smoke?—The answer is. when it presents ttself as a quality (yadā quandhālo bhānatī). The probandum is 'smoke-as-fiery' and it is proved or inferred through the specific nature of the smoke (dhämarissegnäsädhäranenänumäyate). For both are at that time present to sense—the smoke, and the characteristics of it such as its forming an unbroken mass moving upwards And these characters of the smoke, as observed in it, b' bring about the inference of a char-

"This 'gate distance, tairagnuh', is Presestapida's order or formula for the sudariana or addherma, the third member of the cyliogum. Boe PBh 2005. 10 And Uddynakara is referring to Presestapida's youw m this sentence. Vesaspati explana by saying: tanging adheraryostdestoft..." "thin, too, is a form of the concominance doctrine."

²Elsewhers, when he is analyzing a concrete argument, we find an mansteince on the inductionality of the probans - for example he says that we can infer impeding rain (effect)-mot indeed from clouds as such-but in the form These clouds will bring rain,-because they are raing, being, as they are, accompanied by deep rumbing, hering many lines of cranes

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does His words are angust dhimo dyto dhimad clique ity ublogem epibherin tession as abharayan Sabarayan ba been so compted of combent by the Banddha that the only shred of meaning left is 'logotherness in space or time'. Now, as a fact, there is no such togetherness sunoke and fire are often experiment separated in space and time as when the sunde continues offer the fame has wanhed

acter not known (directly) to the observer. In the case of every object this is a probandum (saraaydnumeyasyo acstunak), the subject of the characters and the character that brings about the conclusion (dharmi pratipidakać a dharmah) are known. For instance (in the inference 'sound is transitory, because a product') sound is known (sabdasydhursatt prasiddha krishatenic ca): but the character consisting in being transitory is not known (dharmas tr anityatealaksano 'prasiddha iti). And it is this (latter character) that is inferred as a qualification of that (i.e. of sound). (Tadriścąano 'yam anumiyata iti.)⁴

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

fying through them, fashing with lighting,—like other ram clouds perceived in the past (Tab's transition of NP ϕ 40 17). He is here justifying the argument from cause to effect—which is invoked in the abstract, but on Hidyokakas's wave of the problem as econcret we can just as well argue within the individual whole of which they are eccentral aspects, are completely respirated.

Utidyotaken's vers of inference in searchilly a protest against an abstract formulation of the connection of M and I resulting in a correspondingly abstract conception of S. His point is that in the first place (1), therein in the search of the search o

general answer to the question. 'What is the anumeua?' He is dealing here with a particular case—as Vācaspati Misra 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 third 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 plain that the accidental dharmin is no essential part of the anumeua : so that Dinnaga's statement that 'fiery place' is the probandum is seen plainly in this crucial instance to misrepresent the essential nature of a probandum The essential dharmin of the inference is just "this particular smoke"----the individual case in which both characters find essential connection. Uddvotakara 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-Sarvasuānumevasua vastuno dharmī pratipādakaś ca dharmo prasiddho bhavati (NV p. 54 l. 1) He insists not less, but more, than Kumārila, that the inference involves an ekadeśin as well as two ekadeśa's. But he insists further, as against Dinnaga, that the real ekadesin or minor term of an inference is not something accidental to the ekadeśa's In the case of an inference such as 'sound is transitory, because a product' Uddvotakara would not say that the anumeya is 'transitory product' : he would say, what Dinnaga or Kumarıla would say, that the probandum is the transitoriness of sound. In this inference sound is the essential dharmin: it is in the *ātmasattā* 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 vyāpti as Dinnāga and Prasastapāda state it, i.e. as an arinabhava or inseparable connection of the

dharma's or chadesa's (M and P) in the abstract amounts to a false abstraction. The true nature of inference can only be represented when it is formulated as depending, not on a major premise stating an avinābhāva, but on a parāmarsa or realisation of characters as connected in the individual.

SECTION 7 KUMARILA ON THE FORM OF THE CONCLUSION

(Slokavärtika, Anumāna pariccheda, verses 34-48)

Having established his own view that the probandum is constituted by the Subject and the Property after they have come into the relation of qualification and thing qualified with respect to each other, Kumārila, 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 qualification? That is: do we infer the bull as qualified by the fire? or may we infer fire as qualified by residence in the hill? 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?

^{&#}x27;Cf p 261 supra The distinction exactly corresponds to Väteyäyana's distinction between dharmavisisio dharmi and dharmivisisio dharmak

It is difficult (and preservons) to translate an Indian controversy into our thought-forms. Bit this question does seem parsial to our question whether the fourth figure is a justifiable form of ryllogam. From the knowledge that made is a scompanish by first and the preservoir of first many I outcounty consider is the form Thin hills fory (DARBARA); or may I outcounty consider the form Theore fory thing is thus hill (BRAMANTUP)

⁽The barbarous form of the latter conclusion is of course alien to Indian thuiking, which-inghtly as it seems to me,-ignores the 'particular' proposition.)

. (a) Verses 34-48.

. angangibharas tu kaiscid işto rikalpatah sarvathā dharmion dharmena te avagamyate. 84 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).

35 b. "The distinction between being the qualification and being the thing qualified is not a fixed distinction".

Comment. angängibhäva must here mean risegana and risegaa. Dr Jhä 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 'thus hull' the subject or risegaa, or whether you make 'fire' he subject-notion, qualified by ('fire' as predicatenotion or visegaa, or whether you make 'fire' the subject-notion, —Bat, whichever form of statement you adopt, it will remain the fact that the hull is the dharmin of which one character or dharma (fire) is inferred through another character or dharma (smoke). Dharmin and dharma are fixed notions, though risegaa and visegana are not.

36-38a.

tatrottaram vadanty anye "yadi dharmi viseşanam hetudharme na sambandhas tasyāprādhānyatah sphulah. pradhānatofa dhi dharmena sambandho vākyato bhavet, tatrāşambhavatah paścat kalpyo 'sau dharminā saha, dheaner sty atha eē vēcyam. ancagasya tu daršame bhedopātusaya dharmasya guyabhāvo na duşyati".

36. а.	"Others reply: ¹ if the property- possessor or <i>dharmin</i> is taken as the
36 b.	predicate notion or visesana, then, be- cause the <i>dharmin</i> is no long- er the leading conception, the connec- tion would not be plain in the case of the probans-property. because the <i>dharmin</i> is not the leading conception or subject in the 'Proposition'.
37 a	For, as a result of the structure of the syllogum, 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 middle.—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 Pärthasärathi Miśra

^{&#}x27;I take Kumārila as accepting this view

[&]quot;It is necessary to read a negative into this line, 36b, as Dr. Jhā does (without comment) in his rendering Read-dhorme as for the textualdhormers.

phrases it. in the Proposition we should have anituatram sabdagatam (instead of the direct and usual form sabda 'nityah, 'sound is transitory') -But the second member of the syllogism, the hetu, is krtakatvat.- '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 is transitory on account of being a product' all is 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 saving '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 (kalnua) by an afterthought (nascat), as being with the thing that possesses transitoriness, i.e. 'sound': or else the relation to 'sound' must be explicitly stated (vācua), by adding the word 'dhvaneh' (1 e sabdasua) to the statement of the reason 'krtakatvāt', which will then become sabdasua krtakatvāt-'on account of sound's being a product'.

The concluding line and a half are thus interpreted by Pärthasärathi Miára: "It may be objected that" (when the proposition—or conclusion—is stated in the usual form 'sound is transitory') "the universal statement 'whatever is a product, is......' would, when the occasion for stating it arises'" (daráanaelágám 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 Proposition,—instead of being understood as a connection of the middle term with the character 'transitorness',—

^{&#}x27;is The sentence connot mean 'on account of transitoriness being a product'

which character has been stated in the Proposition as a predicate-concept (aunabhūtenānitvatvena'-i.e., anitvah sabdah 18 a proposition in which anituatva figures in the adjectival form of anitya). 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 transitory'-the character 'transitoriness' is mentioned again; so that there can be no possibility of misunderstanding what is universally 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 said 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').

¹Cf Uddyotakara's phrase (NV p 58 1. 19) kotherh punor symm ageur dhämassissenson bhaseji³ yadd gupobhkio bhaseti 'Pire' is a qualifiestion of 'smoke' (in the conclusion as stated by Uddyotakars, vis, 'this smoke is flery') in the sense that it is stated as an adjectival concept predicated of smoke.

39-48a. Agner desāvisistatve na caitat paksalaksaņam. visistatā 'sya dešena bhaved evamprakārika :---

40 yo'gnih so'sti kvacid deše, yo drsto yatra tatra vā agnih pūroānubhūto vā dešamātreņa sangatah.

41. yo 'gnih so 'nena yukto vā, yo dīsto 'nena so' tha vā yo 'yam sa deśamātreņa yuktah, pūrveņa vā 'py ayam,

 etaddešavišisto vā yo 'yam agnir. itīha tu pūrvayoh siddhasādhyatvam, paresu syād viruddhatā.

43. vyāptir anena dešena sarvāgnīnām na yujyate, nāpi pūrvasya, nāpy esa vahnih sarvair višisyate

44. deśaih, pūrveņa vā 'py asya na deśena viśesyatā. etuddeśaviśisto 'yam ity etat kathyate katham?

45. yadā desānapekso 'gnir nāyam sty avadhāryate, agneķ pūrvataram cātra desa evāvadhāryate,

46. tajjñānakālabuddhas ca na desah syād visesanam. desasya parvatādes tu svarūpe pāvakād rte

 grhīte gnivisistasya punarjñānam na dusvati. tasmād dharmavisistasya dharmiņah syāt prameyatā:

48. są deśasyāgniyuktasya.

39 a. "When 'fire' is not' taken as the thung qualified by 'place' (1. c. 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

^{&#}x27;agner deddessistates Dr. Jbā has overlooked the negative prefix in the compound, or amended it? Kumārila now takes as his illustration of inference another stock example—"this hill is fiery on account of the possession of smoke".

'place', the Proposition would admit of the following interpretations^a:---

40 a. (i) Fire in general is somewhere or other (i e. connected with space in general).

(11) The fire that is seen is wherever

it has been seen.

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

Comment. Kumärila says of the first two alternatives that they both pretend to prove what is already known.—Pärthasärathi explicitly calls the alternative next mentioned its fourth, and he calls the alternative mentioned last of all the eighth. In his mitroductory comment to the passage he says that the first and second prove the already known, while the *last* fice 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 siz alternatives in the first sentence of Pärthasärath's comment. Dr. Jhä renders the

They are not see, as a corruption in the text suggests - nor seems as Dr. Min makes them. The work of spin m Pitthemssinghi comments ad loc.etem ratios perthemadestingsph modularizations and the substitution of seizer that an analysis of the substitution of seizer for seizer. The constant issued makes the number seems if or issues that the first and scond interpretations take as the thing to be proved something already novem, while the latter fee movies contradiction. But lists on Pitthassimilar separation to substitute on Pitthassimilarity in the sensitive to an advect the sensitivity of the possibilities, and of where the one numbered (in y neally contains two possibilities, and of where the one numbered (in y neally contains two possibilities, and of where the one numbered (in y neally contains two possibilities, and of where the one numbered (in y neally contains two possibilities, and of where the one numbered (in y neally contains two possibilities, and of where the one numbered (in y neally contains two possibilities, and the set of the set

fire that has been seen in some place or other exists; (ii) the pre-experienced fire exists in space." His third is the one which I number, and which Pärthasärathi calls, the fourth.—The appeal must he to Kumärıla's actual words:—

yo 'gnih so 'sti kvacid deśe yo drsto yatra tatra rā

agnih pürvänubhūto vä dešamātreņa sangatah

It seems to me that the double use of yah and of $r\bar{a}$ indicates three alternatives, and that the yo 'guid here clearly means fire in general—as it does admittedly in the fourth (Dr. Jha's third) alternative

There are nine possible alternatives, and it must be presumed that Kumārila had them all in mind ·—

 a. fire as such, b this fire, o that fire, may be qualified by — a. pisce as such, b. this pisce, c. that pisce, 	$ \begin{cases} (1) s + a \\ (12) s + b \\ (12) s + c \\ (12) s + c \\ (13) s + c \\ (14) s + c \\ (14) s + c \\ (14) s + c \\ (15) s + c \\ ($	Nine possible permu- tations
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Two of these are objectionable under the rubric of siddhasadhyatra, as Kumärila says: namely, his first two:---''Fire as such reides 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, b+b. This however Kumārila 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. (n), in the phrase yo drfto yatra datra_---'' an experienced fire resides wherever it is experienced"; 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 (vii) in his list. And Kumārila seems only to specify four of these as contradictory, viz, (iv) to (vii), forgetting (11) although he has mentioned it One possibility he does not even mention, viz , "fire as such resides in that place", a+c: thus making the total eight 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 contradictory his no (iii), "that (past) fire resides in all places", c+a.-The apparent omission of the alternative "fire as such resides in that place" may be explained by supposing the phrase yo 'qnih so 'nena yukto rā 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-contradictory in the single phrase vyāptir anena deśena sarvāgnīnām na univate. We shall then have all the nine 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 is conceted with a former (i. e. previously experienced) place.

42 s.	(viii) This fire is qualified by this- place.					
42 b.	The first pair of interpretations take as that which is to be proved some-					
thing already kno tradiction''.	wn, while the later ones involve con-					
Comment	Kumārila says nothing further about the alternatives which involve					
siddhasādhyatva 'setting out to prove what is already known': he now shows how contradiction is involved in the latter alternatives.						
43 a. 43 b	"There cannot be connection of all fires with this place, nor yet of the previously experienced fire, nor can this fire be qualified by all places;					
44 a.	nor again can this fire be qualified by a previously experienced place''.					
Comment	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 qualified by this place' how can this be asserted?					
45 a.	For fire without reference to place is not called 'thus'.					
45 b.	And here it is the place that is cognised before the fire \cdot and					
46 a.	the notion of the 'place' comes into consciousness at the time of the					

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 tajjhänakalabuddhas can alesah syäd reseganam. Parthastrathi glosses thus tad asau vahnh-jhänakale 'vabuddhatudan na videganam. 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 qualified by residence on this bill': and thus is a just criticism

 46 b. "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

47 b. Therefore the probandum is the property-possessor as subject with the property predicated of it .

48 a. that is to say, in the argument under consideration the probandum is the place-as-qualified-by-the-fire".

Comment The conclusion is that we must not take 'fire' (the *dharma*) as the

enseque or subject of the Proposition or Conclusion, and ' hill ' (the dharmin) as the risequa or predicate : in other words, we must not conclude—in the form Bramantip—that fire is qualified by residence in thus 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 is this bill'—or rather for the Indian 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 Bramantip is natural. The argument which concludes to fire on the hill is certainly not one of these naturally fourth 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. Starting 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 determinate in 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 18 P,--for P 18 XYZ, and XYZ is S=BRAMAN-TIP. Or, in the Indian formula sucarram taddésartistam, idráchlksaparattraftä (tasya dessaya), purriamubhäta-dešarat--yatra yatra idršalaksanavattvam tatra tatra suvarnah drštam. Exception has been taken to the bracketed insertion fasya dešasya (see verse 36 b.),-and this is, perhaps, awkward in the Indian formulation. No such difficulty however is felt in the Aristotlar formulation; and it is not a serious objection

^{&#}x27;Aristotic recognises the Second and Third figures in the Prior Analytics but not the Fourth, as such Ross states a reason (W D Ross, Aristite, 1938, p. 36) "I' this fundamenties detections of the figures had been the position of the middle term he would have had to recognize as a fourth possibility the case maken it is predicate of the major premises.

Kumārila does not reject the fourth figure form of conclusion (dharmivišisto dharmah) on grounds on which

and subject of the munor. But has fundamentam disustance is the south so the model server m accomparance with the extremes, and here there are only three possibilities it may be wider than one and narrower than the other, which than other, or narrower thin a thief." "These possibilities, however, only schematize muso "figures' on the samption that the predicate is of once wirden the different-an assumption fundamention model, which are four possibilities, even if width is taken as the fundamentum divisionie, ur, ...



The last will be the rubro of the argument "this place has the characters XYZ, and places having the characters XYZ are gold-builting place, therefore one gold-bearing place is this place" $\sim P$ is M_r M is S, therefore S is P

The fourth figure us not the first figure read backwards. There as a real difference symbolised by the exchange of S and P in the diagrams for Figs I and IV. This differences may be expressed by asying that while Fig I downmants the attribute of a subject (Fig IV downman the subtant of the subject is the fig I the ambject (downman) is the foured by the subject of the subject (downman) is the foured by the subject (downman) is the force abybect, S, or referse D in the fig IV the could (downman) is the force abybect, S, or referse D in the fig IV the could (downman) is the force abybect, S, or referse D in the fig IV the could (downman) is the force abybect, S, or referse D in the fig IV the could (downman) is the force abybect, S, or referse D in the fig IV the could (downman) is the force abybect, S, or referse D in the figure above the figure above the figure above the subject (downman) is the force abybect, S, or referse D in the figure above the subject (downman) is the force abybect, S, or referse D in the subject (downman) is the force abybect, S, or referse D in the subject (downman) is the force abybect, S, or referse D in the subject (downman) is the force abybect (downman) is

Of course these curies unsrepresent thought-processes and the Indan physicology of desremastic datamit and desrematic dataments in more suggestive of the real problem of avliquints force, which has little or nothing to do with the science on the terms or the position of the undel. The important question is whether it is possible to predicate the desreman of the dhorme. it might reasonably be rejected¹. It is not clear that no reasonable interpretation can be found for the statement that 'fire is qualified by (residence) in this place'.

SECTION 8. KUMIRILA'S REFERENCE TO UDDYOTAKARA'S VIEW OF THE ANUMEYA

(Slokavārtika, anumānapariccheda, verses, 48-50)

48a-51a . . . Dhūmasyānyais ca kalpitā

Nanu sabdavad eva syāl lingagamyam visesaņam ·

Naivām, na hy atra lingasya šaktyanekatvakalpanā,

Na ca tasyānumeyatvam, višesyas cāvadhāritah,

Visistatvena cājnānāt tanmātrasyānumeyatā.

Nanu dhūmavišesyatve hetoh paksaikadešatā.

Naitad astı, viśeşe hi sādhye sāmānyahetutā.

If it is possible to predeate the *distrum* of the *distrum*, then a 'fourth forme' conclusion would seem to be possible. Perturbage the general question of its possibility or pastification cannot profitably be discussed without a pror examination of the concept of the metaphysical distrum, and of the relation to the logical subject or *ederga*—an estamination which I have not met with, or have failed to recorgance as used, in Indiana logical works

But this much perhaps may be said, that Kumärik's rejection of the fourth fights' conclusion is not well-grainoided. For the nature interpretation of a conclusion which predicates distributions in qualified by this place." (a+b, in the scheme on p 394 seyre) Kumärik's wommanly rejects this as efficientizations, but only because he logs the question by moderstanding "fire as such" to mean "all particular cases of fire." But to particulares first in this way is already to scale ho to get the fourth figure's are right that the scheme on the search of the fourth figure are induced but the scheme of those who support the fourth figure are right and logical should be the scheme. Before the schemes as assigned it is nother than on that nor all particular fires, but first the scheme.

48	а.		"And	others	think	that	smoke	is
		the	probar	ıdum''				

Comment. Pärthasärathi Misra says : Naiyayukäs tu dhämam eza dharmikriya tasyaizdgnirsisistasyä numegatäm ähuk. "The Naiyäyikas 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 maintams in the passage translated above.

48 h "The objection that the middle term proves the quality (P. fire) in just the sense in which 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 8. 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 subject¹,

Inanu dhümaviseyyatve hetok pakşaikadesatā. The natural meaning of the sentence would be 'the hetu is an aspect, i.e. a part in intension of the

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" Naiyāyika attempt to dispense with S in the syllogism is in the form of an analogy from the double connotativedenotative function of words. If the word 'cow' can denote individual cows and connote 'cow-nature', it means that the prameya, or object of sabdabodha (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 anumena or probandum-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 to verbal 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', S, which can have an independent status apart from M. On the contrary, S is nomore than M in its proper context.

"The criticism appears to be based on a misunderstanding of Uddystakara's teaching

plots. This would however be a far description of the letter on any very and so it could hardly be an objection against the Navghylav area and the survey in fact asserts that M in general is an aspect of the M-in particular which constitutes the pakes or probords on the Navghylav surve—The meaning of letto's pateplatication is then be 'the letter would form in extension a part of the pokes' or, as Dr Jöht ranalske, 'the muddle term would become part of the muor term'. If M is, in extension, part of ther pokes' to be proved, it will not help us to prove P.

On this view the syllogism would run :---

1 The individual SM is P,

2 because M;

3. as other cases (XM) have been found to be M and $P, \label{eq:mass_star}$

4. so is this SMP, M and P.

5. Therefore this SM 18 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 is no need to state it-we are dealing 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 probativeness of being M (through an ablative-inflection. translated by 'because') : as Vātsvāvana puts it (NBh p. 41 1. 2) sādhanatāvacanam 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 exemplification of the probans-probandum relation .- The fourth member 'applies' the illustration, in the form of what Uddvotakara calls the lingangrāmarša · the realisation that in-SM M is connected with P. If we insist on putting these arguments into syllogistic form, it will be found that the nositive 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 Uddvotakara's teaching .- Prasastapāda's and Kumārila's arguments can be treated as if they were Aristotelian syllogisms : but not Vātsvāyana's and Uddayotakara's. And this part at any rate of the Nuāvavārtika amounts to a protest against the principles upon which 'syllogistic' is based.

CHAPTER V

MEANS OF KNOWLEDGE OTHER THAN PERCEPTION AND INFERENCE

Means of knowledge other than perception and inference —(i) Words.— (ii) Gestures.—(iii) "Analogy".—(iv) Presumption or Implication —(vp "Inclusion."—(vi) Absence or non apprehension —(vii) Tradition,

INTRODUCTORY

The various independent sources of valid cognition recognised by the different schools are stated by Varada Rāja in the Tārkikarakşā'. The Gāroākās recognised perception alone : the Bauddhas and Vaukeşikas recognise verbal Testimony besides perception and inference; the Sänikhayas recognise Verbal Testimony besides perception and inference, and one school of Nyāya garces with them in recognising only these three - other schools of Nyāya add Comparison as a fourth source of knowledge · Prabhākara, the Pāraa Mimānās teacher, recognises these four together with Presumption or Implication as a fifth : the followers of Kumārila Butta, the founder of the other Mimānsaka school, add non-existence as a sixth to these : the Paurānikas 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 Nyāya-sūtra (II.ii. .lf) devotes a section to refuting the opinion that tradi-

³Reprint from the Pandit (Benares 1903) p. 56—Pratyaksem ekan Göreäkäh, Kanädaseugatau punak Anumänam oa, tao oliha Bänkkydi dödam oa te on, Nyäyäksedesin öy teoren, upamänam oa kecena. Arthäpatita sekaitäni oatoäry äha Problikarah, Abihäesafejkäny eläni Bätktä Fedänitan tatha Sambhaseuthisputkain tän Panarönkä jegub.

The school of Nyšya which accepted only three proofs are named in the communit ad lot., Bhaqenjiya', which no doubt means followers of the woll-known comment Bhaqens on the Nyšyasirs of Bhafarespin The Nyšyasirs, among other unousl features, tanght three promines matesd of four. Ber Vizishibasan HL D 305, Kath ILA p 30.

tion, implication, inclusion and absence are separate means of proof, and that therefore there are more 'proofs' than the set of four (pramdipacatugta) which it has itself recognised in the first book. Implication is again referred to in the firth book of the Sütra, which discusses a sophism of "apparent implication" (arthdpattseana). Unless therefore we are prepared to maintain that the second and fifth books are later additions to the śāstra, we must recognise that the Nyäyssätra presupposes the existence, not only of the Naisesta, but also of other bodies of philosophical doctrine in which logical topics had been discussed.

Prasastapäda 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 18 that the Indian notion of pramana 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 pramana And even the Vaisesika school, which rejects the claim 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 anumana, are in fact distinct from anumana, i.e. from syllogistic or paradeigmatic inference, but are nevertheless inferential processes : so that, while the Vaišesika is mistaken in attempting to reduce them to the specific sort of inference called by the name of anumana, his opponents are no less mistaken in failing to realise that they are still kinds of inference -although distinct from anumana.

(i) Word, or Testimony (Sabda)

"Words and the rest are also included PBh p 213 1.12. in inference, because they have the same principle (samānavidhitvāt)1. As inference comes about in the case 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 (srutismrtilaksano 'vu āmnāvah) depends on the credibility (prāmānva) of the suthor as is said in Varkesika-sütra I 1 3 'tadnacanād āmnāyaprāmānyam' '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 Vaišesika-sūtra VI.i 1 'buddhıpurvā ıākyākrtir vede' "sentence-structure in the Veda presupposes an intelligence"; and again in VI.1.3 'buddhipūrro dadātih' ''words such as 'gives' presuppose an intelligence''.

The argument in the second half of this passage is directed against the Mimämsaka view that the Veda has no author, being eternal. The answer is that when in ordinary life 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 author. And the validity of its statements and injunctions will be inferred from the credibility of that author.

¹Of the use of with above PBh p 206 fordhang places emissioned with here by emission provide the state of the form or character of the process as the same", and he explains this by saying "justif splitting plate biendawandment presentate, table doldaging "platfield splitting platence functions through the force of the apprehension of inseparable consentant, so also do testimoty, ed."

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 Vaišesika 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 vyāptibalenārthapratipādakatvād. dhūmavat--- " word 18 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 universal connection between smoke and fire]"1. 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, inherence, 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} ruas 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 (svähhävika-sambandha) between word and thing . the relation depends on convention (samketa) And further the truth of a statement depends on the speaker, who may

^{&#}x27;s fridhara has a long polemical passage on this, NK pp 214-217. It is translated by Feddeg on pp. 465-469. See also NK 217-220, translated by Faddeg on pp. 470-474.

Rumārils (Sl. Vārt., Sabda, 15-97) gives the Sönkhya arguments against the Bauddha and Vaiseska view, and admits that these arguments arinvalid, though he subsequently rejects the view that Verbal knowledge is inference, from the standpoint of his own theory.

or may not be reliable (dpta). Thus when we say that the word is an inferential mark which gives knowledge of things through the force of a vdpt or universal connection, we must be understood to mean (a) that the connection depends on human concention, 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 vers such an inferential mark as smoke (used in inferring that the hill is on fire) is a valid mark only with certain qualifications, e.g. if the smoke is rising upwards in an unbroken connection with the ground, etc. The adding of qualifications to the 'Mark' does not prevent the case from being a case of inference.

With this view may be compared Dinnäga's teaching in the Pramāņasamiccaya, as reported by Vidyābhūsna'. "Dinnāga asks · "What is the significance of Credible Word? Does 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 more inference'. On the other hand if the fact is credible, it is a mere Perception."*. The nature of the inference, on the former alternative, is made plain in the citation from Dinnāga given by Vācsnapati'.

āptavākyāvisamvādasāmānyād 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 reliable 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

^{&#}x27;HIL p 288

^{*}Vidyābhītsana's words here are in fact a translation of the objection which Uddyctatara raises $NV~p,~63~\pm1~23-16,~and$ which Vācaspati attributes to Dinnings, NVT~p~188~1~6

^{*}NVT p 138 1. 20.

As to the second horn of Dinnāga's dilemma,—in the alternative we may learn by actual experience that the speaker's statement is avisamtādin, i.e. in agreement with reality. And in this case the pramāņa, or means by which the idea conveyed by the words is justified, is perception.

Uddvotakara replies that Dinnāga's criticism is irrelevant, because he has not understood the meaning of Nyāya Sūtra I.i.7-āptopadešah šabdah; which, according to Uddvotakara, means sabdollekhena pratipattih. cognition by verbal indication Uddyotakara's attitude apparently is that words do lead to belief-and if they are the words of a reliable person, to right belief. Therefore they are (in the latter case) pramākarana-the instrument of true cognition and pramākarana is pramāna. Dinnaga however looks for another pramana which will pro-vide a justification or proof of the belief produced by the words. This instification Dinnaga finds either in inference or perception. His refusal to admit that sabda is a pramâna should be due to his understanding the word pramana in a different sense from that in which the Naiyayika understands it. And yet the Bauddha, as well as the Nawawka, holds the doctrine of paratah pramānuam1, i.e. that no pramāna carries its own justification with it : its validity being established from some other source. The Nawayika however used this doctrine principally against the Mimamsaka tenet that the validity of Testimony was self-proved². In view of the fact that the Bauddha held the doctrine of paratah prāmānua, 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 pramana.

¹SDS, chapter on Jamuniya-daréana (p. 196 in Cowell and Gough's transition). Boe Jilá, Sadho Lai lectures on Nyáya, page 37. ³Jilá, Sadho Lai lectures, pp. 37-88.

For, after all, he does use pramāna in the sense in which the Naiyāyika uses it And, in that sense, śabda is a separate pramāna.

The discussion about sabda 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-karaņa) 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 Mimämsakas, were prepared to maintain its 'svatah prāmānua' or logical selfsufficiency. The Navavika was not prepared to do this. But he called sabda a pramana in the psychological sense. The Bauddha refused to call it a pramana because (quite inconsistently) he was, for the moment, understanding pramana in the logical sense of self-sufficient ground of belief a sense really inconsistent with his doctrine of paratah prāmānya.

(11) 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 is, it 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 intention. This is a *vights*, and the cognition is therefore inference as being *vightbalena*.

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 is 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 pramākaraņa, and therefore pramāņa.

(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 Prasastapāda is answering the psychological question (1) above, or the logical question (3) above, when he says that gesture, as a supposed pramāņa, is really inference. And the reason why it is not clear is because he is thinking of pramāņa in the ambiguous sense noted under (2) above,—ie. as promākaraņa: which may mean 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 (garaya, bos garacus) is like a cow-'yatha gauh, tathā garayh. 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 'yathā' gauh, tathā gazayā'', 's bison is like a cow' but

^{&#}x27;This suggests the formula of the fourth member of the syllogism the spansys or Application And it is noteworthy that Väisyäyana, in the passage on NS I i, SO in which he characterises the members (aregues) of

according to later opinion 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 cow³.

But is this really what the sūtrakāra means by his definition of upamāna,—'prasiddkasādharmyāt sādhyasādhanam upamānam'².

The primá facie meaning of this is "comparison is the establishing of what is to be established from a known resemblance" (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 stara in this way is obvious. Inference, arumana, 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"—i e it is described as an analogical process. There would thus be no distinction available between anumana and upanäna.

And there is no corroborative evidence at all for the existence anywhere in Indian logic of the western notion of analogy, as a specific type of inference distinct from *anumäna*,—

> x is like y. But y has the property P. Therefore x has the property P.

the syllogism, says exploritly that the application is analogy -upandinam upanapah, tathety uparashharät the application is analogy because it applies (what has been said before in the example) by the use of the word 'tathë' "ao'. CI NS II 1.48.

'Iha, translation, I. 196-197, footnote.

²NS I. 1 6 See also NS II. 1 44-48 (the rather obscure passage in which upamona is examined) translated pp 318-319 infra.

"See infra p 318 for the meaning of prasiddha-sādharmya

"Thue in NS I 1 34 we get what seems practically an identical formula given as the definition of the "Beason" or hets in a syllogiam addharomstädkarmyat sädligaadhanam hetsh.—"the Reason is the proring of what is to be proved from likeness to an example".

The passage in the Nuāvasūtra in which unamāna 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 meaning of upamana, --- namely, the 'Vrttikāra' cited in Sabara's Bhāsya on Mīmāmsā Sūtra I.1.51, gives an account still further from our conception of analogical proof. The Vrttikāra's definition runs : upamänam apu asamnikrste 'rthe buddhim utpādayatı, yatha gavayadarsanam 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 is explained to mean that upamana 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 Vätsyäyana, upamäna, as instrumen' of cognition, meant a knowledge of resemblance, in the form 'a bison is like a cow' The question is, as Vätsyäyana puts it, kim punar atropanänena kryate!—'' what is it that is effected by this knowledge of resemblance as an instrument'? In other words what is the upamiti or upamänaphala, the special kind of right cognition (pramä) produced by this special pramäna, i.e. a cognition of resemblance?

The only answer that Vätsyäyana could find to this question was that the cognition of resemblance led upprehension of the relation between designation and thing designated (samifääsanifäisambandha). This seems a rather trivial result for a separate pramäpa to produce and that is why the Indian account of upamiti, cognition arising from resemblance, strikes a Western reader as a singularly barren notion. But Vätsyäyana's examples show that the knowledge of the name carried a good deal 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 medicunal purposes (bhaiagijd ghânath). The recognition of the object as possessing certain 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 upamina dees play no small part in the growth of knowledge. Thus explained upamäna 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 Nuāva Sūtra II.1.44-48 (upamānaparīksā) I think Vātsvāvana's interpretation of upamāna gives what was substantially the meaning of the sūtrakāra. 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 "upamana 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 sadhuasadhana, '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 Vätsvävana's paraphrase prajnāpanīyasya praināpanam. So that sūtra 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 220 1 16 "Knowledge of likeness as an instrument of valid cognition is nothing but credible testimony (*upamānam āptaeacanam 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', by a person who has seen a[±] bison.

Prasastapäda has already reduced Testimony to Inference: so that in reducing upamäna to Testimony he is, from his own standpoint, reducing it to Inference. The view which he is criticising is perhaps Vätsyävana's for it is Vätsyävana who identifies the instrument of upamiti with the knowledge 'yathä gauh, tathä garayah'; ignoring the perception of the garaya which later commentators make an integral part of the upamäna as the instrument of upamiti And, as against this (clearly inadequate) view, Prasastapäda 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 upamäna is, from your own standpoint, äptaracana, and not a separate instrument of cognition ''.

This may be effective as against 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

[&]quot;The text has apresideliesys geosystys, but there is a variant oprastdelaborgeresys It is necessary to emend to apresidelagorgerys and that this is the right reading is confirmed by the commentary which in line 21 has apresidelagorsystys, and giosses it by splittagoragerys. See Freddegon p. 476 note

²āptena=by a fit, 1 e credible person But later commentators always explain it in this connection, as one who has had apts, 1 e sakţād arthaya prāptik.

that the name upamāna is used of it. Srīdhara accordingly supplements Prasastapāda's brief criticism1.

Dinnaga in the Pramanasamuccaya argued that unamana is not different from either (on one interpretation of it) perception, or (on another interpretation of it) testimonv².--na pratuaksād vākuād vā vuatiricuate³ " 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' (yathā. . tathā) would not have been used. It is a preponderant sameness of qualities (bhūyas sārūpyam) that one apprebends "

Both Uddvotakara and Vācaspati reply that Dinnāga's criticism is irrelevant because he has not understood what the sūtra means by upamāna-1.e he has not taken Vätsvävana's view of the sūtra as meaning by upamana the process of applying a name to a thing through similarity to a known thing; but has interpreted it as merely the process of getting to know the similarity of two thingst. And this seems a fair criticism of Dinnāga.

^{&#}x27;NK pp 220-222 In criticising the view of the "disciples of Sabara Svämin", i.e. the view above referred to in connection with the definition of upamāna given by Sabara, he quotes Kümarila, Slokavārtika. definition of upermains given by Sahara, he quokes Künnzik, Slökeferkör, yoranima, 30. "Naldegas translates this passage of MK at by 475...476. Peres Mindaned pp 68-600-referred to by Faddegan for att press of the set of the set

Vācaspati argues that, understood as Vātsyāyana understands it, upamāna must be regarded as a pramāņa distinct from perception, etc., on the ground that it produces a kınd of right cognition (pramā) distinct from those produced by the other pramāņa's—pratyaksādibhyaḥ pramāņāntaram upamānam tajjanyapramāvilakṣanapramājanakatrāt.

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

Satras 44-45. A dialectical objection is raised. Similarity must either be complete, preponderant, or slight. If complete, there is not resomblance—no one says 'a cow is like a cow'. Nor again is resemblance asserted on the basis 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 prasidhasäharmya. There is no question of all, most, or little—there is resemblance : and where there is resemblance analogy cannot be denied.

Sūtras 44-47. Pratyakşenāpratyakşasıddheh (46) Nāpratyakşe gavaye pramānārtham upamānasya paśyā ma iti (47).

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

The passage seems to show that Vätsyäyana's account of upamäna is that intended by the Sätrakära, and stands for the genuine tradition of the ancient school of Nyäya.

Sūtra 48. Tathety upasamhārād upamānasiddher nāvišesah

"The process of *upamāna* is established by the use of 'so' or 'like' (in the 'application' or fourth member of the syllogism). and therefore it is not true that it is not different from *anumāna*."

The present satira suggests that the muture for the recognition of upamäna as an independent source of knowledge was to provide a pramäna 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, or NS. I. 139.

(w) Presumption or Implication (arthāpatti)

According to the classical account of this process it consists in finding a supposition which reconciles a primal facte contraction. The two stock examples are. (1) You have information that Cuttra 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 is given as an illustration of dratarth apatti, implication or presumption from experienced facts; the latter as an illustration of srularthapatti, implication or presumption from words'.

 $^{^{\}circ}NK$ p. 222 1 9 ff. and 11. 25-27. The passages in the NK m which arthforts is discussed extend up to p 225, and are translated by Padagon ps 478-483.

Arthāpatti was recognized as a separate means of valid cognition (pramāņa) by both schools of Pāraa Mīmānša (Bhāţţas and Prābhāļkaras), and the doctrine is found with its essential features developed as early as the Vritikāra cited by Sabara. The passage in Sabara's Bhāşag may be quoted as the locus classicus.

Sabara

"arthāpattir api drṣṭaḥ śruto rārtho 'nyathā nopapadyata ity arthakalpanā 'yathā, jīrato Derafattasya arthābhācadarsanena bahirhhārasyādrṣtasya kalpanā " "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."

Nyäya-sütra and Vätsyäyana

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 $Ny\bar{a}ya-satra^{*}$ which argues

Bibl Ind edn. p 10 ll 17-20

*The section known as pramänacatustvasyavastliäpanä, NS II 11 1--12 Arthäpatti 18 spoken of 1n sütras 1--6

It is worth noting that arthapati is one of the 32 (sufrequetic's or methodoporth notions used in a fastra of which Sufraria, Caraka and Kanjing give hais with definitions and examples "The definition of arthapatis green by Kanjing (with which Sufraria Selfatrie as that, when smallers arthad spacialized": and the example from the fastre is that, when shang by way of good shives which pleases, the numberation (arthad dependent bisers) is that he should not give good advice that does not please. Thus corresponds to Visayayana's account, not to Salawa's

Kaut Arth. 8 adhikarana 15, adhyāya 1 -p 424 of Mysore edn. 1909.

^{&#}x27;Jhä, PSPM pp 70-71 See also Slokavärtika, section 'arthä patti'.

against the separate status of supposed pramāņa's other than the four enumerated in NS I.i. 3; and the account there given, as interpreted by Vätsyāyana, is not identical with the account given by Sabara.

Vātsyāyana begins by defining arthāpatti as abhidhivamane 'rthe yo 'nyo 'rthah prasajyate--- ' another thing which follows as an implication of the thing that is stated"". The example which he gives is uatha meahesv asatsu vrstir na bhavatīti kim atra prasajuate? satsu bharatīti-" for instance, what is implied in thestatement that when there are no clouds it does not rain? (The implication is) that it rains where there are clouds²", i.e. the object cognised through implication is that the production of the effect, rain, is limited to the existence of the cause, clouds-"'kāryotpādah kāran-asattām na vuabhcarati". If not A. not B: erao, if B. Vātsvāvana further characterises this pro then A. cess as 'apprehending from opposition what is not stated' -anabhihitasyarthasya pratyanikabhavad grahanam ' (NBh p. 101 | 6 on NS II.11.2) 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".

"MBb on NS II to 1, p 100 1 11. This looks like a persphere of interregulation of the proceeding footions. That YURA privates were found characterized in the proceeding footions. That yurks are a NS I. i. 4. As the false quoted by hum in NS I by 7, 15 foo NS I i. 1 occurs in the Kaudified arthic states it is even possible that he knew the lists as Kawified greens. If this NS V 11 (Interbactionsen).

'An opponent objects that it does not always rain when there are clouds, so that the conclusion arrived at by implication is uncertain (seakantich).—The answer given is that he misunderstands the result given by 'implication'.—the implication of 'when there are no clouds it does not rain is 'when it does rain there ore clouds'

*NBh p 101 l 16 cn NS II, ii 4 : asati kõrane käryam notpadyats tis väkyät pratyanikabhüto 'rihah sati kärane käryam utpadyata styartikat spadyate Abhärasyah väkyäd häraoh pratyanika iti It will be clear that Väisyäyana means little more by arthäpatti than what Western formalists call the opposition of propositions and immediate inference. But Vätsyäyana has no doctrine of 'logical opposition ' such as that embodied in our 'Square of Opposition '. He notethat some supposed 'implications' are in fact not logically necessary (*anaikäntika*); but he does not formulate the precise conditions under which an implication is cogent '

Nevertheless the sūtra already defends arthāpatti against the charge of being inconclusive (anaikāntika); although it denies that it is an independent source of knowledge, and holds that it comes under the head of inference. Neither the sūtra nor the Bhāsua makes it clear just what form implication would take when expressed as anumana, inference through a middle term. But the sutra has no doubts as to the identity of arthupatty and anumana; for it argues against the objector's inference (" implication is not a source of valid knowledge because it is inconclusive "), that, if implication is invalid, then this inference is itself invalid; while, if the inference is valid, then implication is valid : the meaning of the dilemma being that the validity of inference stands or falls with the validity of implication-since in fact there is no distinction between implication and inference Neither the sūtra nor the Bhāsva recognises the distinct tion, first made perhaps by some Mimāmsaka predecessor of Sabara (unless Sabara himself originated the doctrine), between verbal implication (srutārthānatti) and real implication (drstärthäpatti). Prasastanäda recognises it, but regards it as of little importance.

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

^{&#}x27;Indian Logic never developed the sort of doctrines which we class as 'formal', and its omnasion to concern itself with the 'opposition of propisitions', in our sense, as a case in point

causal relation. Sabara takes his from spatial relations (if a man is not here, he is elsewhere), while the later Mīmāmsaka 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 Vatavavana when he characterises the argument as based on pratuanikabhāna. or opposition ; and when he says the positive is the pratuanika 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 concention in itself. Nevertheless they do not succeed in realizing the constructive or 'synthetic' character which is the mark of a genuine arthāpatti-as exemplified for example in geometrical construction. in which new positive truth arthad apaduate-arises by implication in the concrete character of a system¹

Praśastapāda

Prasastapāda does not scem to accept Vātsyāyana s account of arikāpatts; and he draws the distinction, which Vātsyāyana does not draw, between drakārthāpatti and srutārthāpātti. His actual words, however, do not enable

Padagon suggest, whis seems very probable, that arkAppate organaly "was a noton due to the eveness of evegess. Where a literal explanation of the text was not possible, one had to go back (*Spedgest*) to the nearing or inclution of the speaker (*stridu*) dribner the suggest of the *striderkappate* was a remnant of the old use of the term". *Varieske Spetem* **p**.478 footuols.

us to determine what view of *arthāpatti* he has in mind. But, for reasons suggested below, it is probable that Srīdhara interprets him correctly.

PBh p.223 1.1. "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) drstarthapattı

Sridhara glosses virodhy anumänam by: "'pramänäntaravirudha erärtho 'rthäntarävinäbhüta 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 arthäpati sa Sabara's

It is a case of inference, anumāna, because it clearly relies on avinābhāva, universal connection. 'uasua uathā niyamas, tasya tathaiya lingatyam', says Sridhara: "there is a middle term (i.e. the process is inference or anumāna), 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 (arthantaram api kalpayet-i.e. it would not point to any definite alternative)''. The Mimāmsaka says that knowledge of absence from the house generates the idea of something else in order to make itself possible (svotpattaue)-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 authority of the experience that a finite substance if it is in one place is not anywhere else. But then the realnsation of the possibility of the man's absence from the house has as its condition a positive connection (anraya), and so is inferential, since its arising depends on a universal connection. The form of the argument would be : 'Devadiatia is out, because being alive he is not seen in the house : like me'.

-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 Indian syllogism is in essence inference from examples this really amounts to asking whether arthānatti 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. Arthāpatti is not inference from examples --- Western logic meets with similar difficulties in attempting to reduce relational arguments to terms of our syllogism · we cannot easily construct a premise stating explicitly 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 arthapatti is facing this same problem, though from a different angle.

^{&#}x27;The above is the substance of what Sridhara says on dystarthäpatts, NK p. 228 II. 3-16 One or two sentences remain unnithingible to me-I have omitted them. Faddegon's translation of the passage at pp 479-480 is confused.

The argument (m the last sentence of the above) is in the affirmative (encough lorm. The Nargayka traition makes earthposite k-scalesquarers assuming, e.g. Tarkohidad pp 00-61. the form beng "Devadatis east by might because he is far without exiting by day; these who do note est by night are not far-without-exiting-by-day; like se-and-so who easts neither by day nor night and as thin, not so Devadatis, etc."

The Indian ayllogism 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 anumana. Indian logic gives a few illustrations of such arguments under the rubric of arthāpatit. The treatment of the topic is inadequate : but it is still a valuable suggestion.

(b) śrutārthāpatti

Praśastapāda's meaning in calling verbal implication anumitānumāna is merely that verbal testimony is itself (on his showing) inference The facts derived by 'implication' from words are arrived at inferentially : therefore the 'implication' got from such facts is 'inference from the inferred '

(v) Sambhava-Inclusion

PBh p.225 1.10 "Inclusion' also is neither more nor less than inference, because it is a case of something which cannot exist without another thing (anindhhānitat)".

NK ad. loc. Sridhara explains: "A hundred is 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'.

The transition of semblace by 'reubhility' in this connection is most even. The samples green as a barry case of quantitates inclumes of part in whole, and piece the meaning of the term beyond doubt. Joks on NS II. I transites 'delection': but thus is to ownide a term. Kuth ILA p. SI gives equivalence or inclusion'. I have not met the term in the sense of equivalence.

Vätsyäyana' gives a similar account, and, like Praásstapåda, uses the term *winåbhåva* m this connection 'but tins term was not for hun, as it had become for Praásstapåda, a technical name for the universal m reasoning. Perhape it först found its way into the language of logic in some sich usage as is illustrated in this passage of the Nyäyabhlyga. "What is called 'inclusion' is the grasping of the existence of a nother thing as the result of grasping the existence of a thing which is its avinåbhävin, i.e. does not exist without it?. For instance we apprehend the existence of an *ädhaka* (a weight which is the quarter of a *drona*) from appreheng ing the existence of a *drona*, and of a *prastha* (which is the quarter of an *ddhaka*) from apprehending the existence of an *ddhaka* "And again :—

" A quantity and its constituents being united by the relation of inseparable concomitance (avinabhävaryttyä sambadåhagudo, samudäyusamudäyinoh), the apprehension of the constituent by means of the aggregate (samudäyena) is 'inclusion': and this too (1.e as well as arthäpatti) is just inference."

-As in the case of arthäpatit, there is a failure to generalize 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 sambhara is a separate pramāna

P on the other hand is the sine ; ad non of M-a hundred is the sine ; ad non of a thousand. The sine gud non is that without which something cannot exist. The soindbhdown is that which cannot exist without another thing this other thing being its sine ...id non

¹NBh p 100 ll 12--14 and p 101 ll. 7-8 on NS II, u 1-2 The term sembhara courts in both these stiras. The reference to arthApatis, sambhara, etc., in these stiras is a proof that logical doctrines other than those of the Nyäya were already in existence

[&]quot;The inclusive quantity is accurately called the semiphicar, as being that which cannot exist without the included quantity. The semilate of course can exist without the larger A hundred can exist without a thousand, but is thousand scannot exist without is hundred in 'All M is T'. M is the semidablem, i.e that which cannot exist without P But P can exist without M.

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,—meither did Western logic, until Kant pointed it out. Western formalism is in a more awkward predicament than Indian here un 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 arithmetic¹.

(vi) Abhāva. Non-existence or negation

It is clear from the discussion in the Nydya Situra' that the investigation of the nature of non-existence (abhava) arcsec out of a dialectical difficulty—How can we know that which is not? or, How can we assert that anything is not? It is, as we should perhaps ary, 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 Nydya Sütra would inevitably arise. He sumply asya's *abhāvo 'ni* pramānābhāvo nāstify asyārthasgāsamuitrstasya-'' non-existence being an absence of any instrument of knowledge, is also (as well as anumāna and arthāpatif) the thought' of something not present to sense—viz., of that thing (to which the pramāng would have applied)²—in the form 'it is

'See Note on the Indian Syllogism pp 411-412 For tendencies to a quantitative formulation in Indian logic see pp 230-232

^{*}NS II 11 7-12

^{*}Säberabhäsys p. 10 i 20 --For later Mimärhsaka differences of opinion on this topic see JhE, PSPM p. 72, and Slokseärtika, section ou shäsa

Supplying kalpanā from the preceding clause.

[&]quot;This seems to be the force of asya.

not'''. The dialectical difficulty of asserting that the absence of means of knowledge can lead to knowledge. Knowledge that the thing is not—is obvious, and is precisely that raised in the Nyāya Stātra. Kumārila interprets Sabarā'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 Sütra, II ii.7-12

The Nyāya Sūtra denies that abhāva is a distinct instrument of cognition, on the ground that it is inferential (II.ii.2); but later (II.ii.7-12) asserts the validity of negative judgment as against dialectical objections. In the latter passage the objector argues that negation is invalid (na prāmānyam) because there is no object of cognition (prameya) corresponding-the non-existent not being a 'prameya'1.-This objection springs from mere impudence (vaiyātyāt), says Vātsyāyana; for common experience provides numerous instances of 'prameya's' of negation. The following sutra (II.11.8) 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 rejoinder that what simply is not cannot even be negated (asaty arthe nabhavah)___if there are no marks you cannot say that the cloth is unmarked : to which the answer 15 given that marks do exist .- in the other pieces of cloth (anyalaksanopapatti) .- The objector reforts that the negation does not refer to the

This objection supplies the motive for the arction of abhden into a separate seventh category by the later Vatiestka and Nydya schools, coordinate with the six positive categories of Prefeatsplate and the earlier school.

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 apprehended relatively to the things in which the mark is present (laksanāvasthitāneksāsiddheh).-The final sūtra (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'. 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 quibbles (chala). which call not for refutation but for rebuke: for a quibble, when witting, is ignoration

¹In his comment on this Yäsiyäyana clearly enunciates a tuoofod division of abhäse into antecedent and subsequent non-existence but he makes no mention of the other varieties recognized but he laster eshool 'Abhäsadseitan khalu bhosti, präk cotpatter asidyamänatä, ufpannasya ofinano händ asidyamänatä'.

The fourfold classification appears to be a relatively late doctrine, perhaps dating from Kumārila —

kefire dadhyddi yan nästi prägabhäbah sa ucyate nästikä payseo dadhni pradheamsäbhäba syyate gosi yo 'söädyabhäbas tu so 'nyonyöbhäva ucyate straso 'sayavä nimiä erdähkäfhinya-varjiläh ledsejrnydäripena so 'tyontäbhäva ucyate.

"The non-extence of curds in the milk is antecedent non-extence is non-extence of milk in curds a subsequent non-extence or non-extence after destruction, the negation of horse in the cow is mutual or recurrocal negation, absence on the slope of the head of hardnass and excremence is absolute non-extence-non-extence of such things as the horns of a hare " (Biokestrikk, oblice, S-1).

Still later, the three variets 'antecedent', 'subsequent' and 'absolute were classed logeneral hard of sumergibles, the common element in these three here gaperanity the temporal reference in 'not yet'. Ioo longer' and lower' (for startbless as compared as invalidabless, a compared and in the second start and the second start and the demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and demail of showing the second start and the second start and the second start and demail of second start and the second start and the second start and demail of second start and the second star Abhāva

elenchi (arthāntara)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 dualectical difficulty.

Nyāya Sūtra II.ii.2, and Vātsyāyana

As regards the earlier passage (II.11.2) the question avises-On what grounds does the sütrakāra reduce ' nonexistence ' to inference? No answer is to be found in the sūtras themselves, and we have to rely on Vātsvāvana's comment². 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 18. And he has no difficulty in showing that, when abhāva, non-existence, is in this sense a pramāna, i.e. a means of apprehending something, it is simply an inferential process. "Absence or non-existence (as a pramāņa) depends on an opposition'. That which is not is the means of apprehending that which (abhūtam bhūtasya sc. pratipādakam)-non-ex-18 istent 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

*NBh p. 100 ll 15-17, and p 101 ll. 8-9.

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¹Jhš, Translation, Vol. II p 816 NV p 179 II. 7-10, and p 282 II. 18-19 On these technicalities see the next chapter on Sophistical Refutations.

abhãeo surodhi This is comparable with Praéastapäda's account of arthäpetis as vrodhy onamänom I suspect that Praéastapäda has thu pasago of the Nyägobhäya un vew, and is delbarsteija zamening Vätayäyana's tesching. His means to say that what Vätayäyana calls abhäes is in fact arthäpati.

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 (kāraņasya pratibandhakam)''.

Praśastapāda

Praéastapäda's brief statement shows that he takes almost the same view of non-existence, considered as a means of apprehension (*abhāvapramāņa*), as Vātsyāyana does; but with this difference, that he identifies it with inference from absence of effect to *absence* of cause, whereas Vätsyāyana identifies it with inference from absence of effect to presence of a comuteracting cause¹.

As a contribution to the real problem of negation, as conceived by the Mimärisakas and the later Naiyāyikas and Vaišeşikas,—the problem, How do we know that which is not-Praésatapäda's teaching is thus as irrelevant as Vätsyäyans's. He says:—

PBh p.225 ll.14 ''Non-existence also is neither more 15. nor less than an instrument of inference (anumänam eva). Just as the occurrence of an effect is the inferential Mark in the apprehemsion of the presence of the cause, so the non-occur-

rence of the effect is the inferential Mark in the apprehension of the absence of the cause."

Srīdhara

Sridhara ignores Prasastapāda's account, and proceeds to deal with the real problem in a long and valuable polemical digression². He points out that even those

¹⁷This difference confirms the suggestion made in the providing footnote. If the inference through specification (revolds resembling commercing course, is to be classed as 'presumption' (orbifparit), but inference through hom-createsco-(abbdes) has to be differentiated from it. The differentia is that the former infers a positive entity, the latter a negation

^{*}NX pp. 925-230 The first part deals with abhäva as a promdua, the second part with abhāva as a category That is, he deals with two

who assert that abhāra 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 being perceived if present; and that the conditions of perceiving if 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 Srdhara uses abhāra as synonymous with anupalabdhi). The 'major perceived (uoque) and its non-existence'.

But what of thus ' fact that the thing is not perceived'? For instance when there is no pot on the floor —the floor is *perceived* as present. Why not say that the jar is *perceived* as absent?? 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

problems: (a) How do we know the non-existent? and (b) In what sense is non-existence or negation an aspect of reality?

Both parts are translated by Faddegon pp 488-492

'(2) the formulation of inference through non-presention (assupidabl) by Dharmath'i in the Nylaphende p. 110-peri sed sepalabelihakenga-préptem tad spalabhytis eneigy takis "unpubbhyoménam tédériem asset Seven on the indem Syllapmen M. MM XXXXIII NS 138 (2014), 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999,

Bridhara's yogya is Dharmakirti's upalabdhilaksanapräpta.

"This is the later Naiyāyika view Hitherto he has been arguing against the Mimārheakas.

absent as absent. But the truth is that every negation or absence has 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 (i.e. when sense is no longer functioning) 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' 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 apprehension (perception. etc.). which proves (as they hold) that absence (abhāva), or non-apprehension, 18 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) establishes his absence, a present non-perception establishing 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' (uoquānupalabdhi), 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 meantime. 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

^{&#}x27;The Mindsheakas, again. The passage which follows (NK p. 227 from 1. 2 = Esddegon pp. 486 and 487) as difficult, and Faddegon's otherwise sdeguast transiston of this section is in part courdeed here.

^{*}Cf the statement of Sabara cited above, p. 398

apprehension¹. 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 rearessus 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 "This being the opponent's view, of sense². 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 car be memory only of what was previously experienced³.

¹Accepting Faddegon's emendation (p 486 footnote 3) na cāviduamānā prafitih kāranam bhavutum arhais (text reads avidyamānāprafītikā ranam) NK p 327 1 10.

The instruments of apprehension are of two kinds first, those which are natruments is knowledge without bitometwo being known-as based of apprehension secondly, these which are instrumental to further knowledge through being these which are instrumental to further instruments of the secondly, these which are instrumental to further an inference. (This classification of promities is given by Viscapist Midin, and inference (The classification of promities is given by Viscapist Midin, and is class from this dis presents cannot be rendered proof).

¹At this point the opponent suggests that the past 'non-apprehension' may be regarded as still continuing in the mind, on the ground that non-apprehension of an object coly cases when the object is apprehended has now supervected, there as in ground for appoint that a difference in the state of mind must imply a difference in the third apprehended (?). Softhare replace that this suggestion is perhaps possible in the same single who then realines that the suggestion is perhaps possible or the same single who then realines that X was absent. But how will the opponent deal with the suggestion is perhaps in the shearce is at first not grasped events (but the shearce is at first not grasped events (but the shearce is at first not grasped events (but the state is the state is the state of the shearce events (but there even non-apprehension terms) but is "Mission theorem in one-apprehension cases of the how leaf of a shearce minet be state of the state reserve for an and there even is of the nowledge of absence-index between the shearce be will be present apprehension. I but present apprehension is perhaps and and the present apprehension is perhaps and the present apprehension is perhaps and the present apprehension is performed and the present apprehension is performed apprehension apprehension is performed apprehension ap

Sridhara 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 interence. "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. Soand-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 (anaikāntika) be--cause 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 fail to recall the other --- , we shall add to our 'major premise' the proviso 'the aggregate of conditions for recall being the same in both cases' (tuluasamagrikatva). In the case of the two verses of the couplet the conditions are not the same, there having been a keener mental impression (patutarah samskarah) produced by the verse which is remembered. But where the two things were factors in a single cognition (ekaiñānasamsarai) 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

This passage (NK p. 227 ll. 14-25) was not worth embodying in the above summary of Sridhars's argument, but is given as a sample of tenth-contury polemics.

approhemation, but that the post non-approhemation still submask and that it is by thus, which shows in fitted to determine a non-arustence belonging to past time, that the thing's shence on the previous constain is determined — The suggesturb theory terminchish knowledge and immghi I. Non-spechenation termination in approhemation, and is one and marranile, not to be distinnon-apprehemation. The exceeding withtive of the distinction involved maying that the present non-apprehemation can depresent non-apprehemation. The exceeding withtive of the distinction involved maying that the present non-apprehemation comes to a stop while the past who (the she opposed) have with an sharp as the point of a belief of *kiefer* sizes (*kuisferpischis*).

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 (kramene a pathyante naikajñanasańasarjin.)*

-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 helief (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 it, or remembered it'. There will always be. however (though Sridhara will not admit it) a logical possibility of error in the inference, since it is impossible so to formulate the 'major premise' as to exclude all possibility of exception³. Practical or moral certainty (i e. opinion 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' (which is admitted to be an independent pramāna) is no less inferential than the ground of our belief in 'non-apprehension' (which is denied to be an independent pramāna). 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 '.

"And in memory. The Indian schools refuse the name of prawdaw to memory, on the ground that the original apprehension was the prawdaw.

[&]quot;The psychology is wrong; but the distinction between 'simultaneous' and 'successive' association is noteworthy.

The correct section is interview. The suggestible patient cannot be determined by the suggestible patient cannot see what is before his over when he is fold that it is not there. Undetected physical conditions and psychological inhibitons may be present to invalidist the nagative joignment and the inference by which we justify our belief in it.

Perception is no more, and no less, independent of inference than 'non-apprehension ' is. And in both cases it is equally impossible 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 pramāņa in the psychological sense of instrument of cognition the position of those who like the later Naiyāyikas assert that we perceise 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 psychologically something positive, and becomes the instrument of negative judgement⁴.

(vii) Aitihya-Tradition²

PBh p.230 1.24

"Tradition also, when true, is nothing but Credible Testimony"

When false, the question whether it is a pramāna, i.e. an instrument of ralid cognition (prama) of course does not arise. When true, it is indistinguishable from sabdapramana; and as such is reducible to inference. according to Prasastapada. Tradition is mentioned among the claimants to the rank of pramāna in Nuāyasūtra II.11.1-2, and its claim is rejected as not being different from 'word '-which the Nuāva Sūtra admits as a distinct pramāņa. The reason for distinguishing it from sabda appears to have been that tradition has no assignable author; whereas ' word ' 1s somebody's word-so that the question whether it is the word of a reliable person (aptavacana) can be raised. Thus Vātsyāyana* characterises tradition as having no assigned author because it has been handed down through a succession of pronouncements.

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^{&#}x27;See NS V 1. 81, where this is explicitly stated infra, pp 363-965. "The word is derived from its ha, two particles Cf. the word itsdase meaning 'legend' the word is simply the its ha dea, 'and it came to pass', with which traditional takes are introduced.

[&]quot;NBA. p. 100 1. 8 sts hocur sty anirdistapravaktykam pravāda pārampāryam aitskyam.

CHAPTER VI

SOPHISTICAL REFUTATIONS.

(i) Equivocation (chala) —(ii) The sophistical or disfectical refutations (jdii), —(iii) The six steps in its quoque disfectio (satpaksi) —(iv) Defeat in debate (ingrahasthäna)

The three heads chala, jāti and nigrahasthāna, among the sixteen 'categories' of the Nyaya, correspond to the Sophistici Elenchi of the Aristotelian Organon. The second chapter of the first book of the sūtras distinguishes sophistry and cavilling (jalpa and vitandā) from discussion $(v\bar{a}da)^1$ 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), sophism (jati) and futility (nigrahasthana) : while cavilling is sophistry which makes no attempt to establish the position counter to that of the theory attacked (pratipakşasthāpanāhīna). 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 sūtras, which has these for its sole topic

SECTION 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.

²Cl Plato, Resp., 589 B and C , where discussion is contrasted with refutation and contradiction.

1. Väkchala

Equivocation in respect of words is defined in the stara as the supposition of something different from that intended by the speaker in the case of a thing named by a homonym. Vätsyäyana cites as an example the sentence navakambalo 'yam mänarakah, 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 visego, na samäse), and the opponent unfairly resolves it as nava kambaläh, taking it to mean "this man has nue blankets": "unfairly, because no word, as such, is particular in its meaning; which becomes determinate only through the context (arthaprataragadisahakati visege vartale). Näcaspati explains.

Sāmānyachala.

This is defined as the supportion 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 · unfairly, 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 (*visayänuväda*) without any intention to speak of the cause (avieaksitahetukasya).

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

3. Upacārachala

The oritic takes in its literal 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 (bhaktyå prayoge prådhånyena kalpanam. NBÅ p.57 II. 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 musunderstanding of the structure of the sentence : for a sentence which is obviously intended to be constructed " ibis man—the Brahman is 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, un the Aristotelian classification of the fallacies in dictione.

SECTION 2. THE SOPHISTICAL OR DIALECTICAL REFUTATIONS (JATI)

The definition is given by anticipation at I.ii.18sådharmyacaidharmyäbhyän pratyacasthänam jääth,... 'the jäät is a counter-argument through likeness and difference'. Of course, on the Naiyäyika theory of inference, strictivl logical arguments also proceed through likeness and difference. What differentiates the dialectio devices to which the common designation jäät is given, is the nature of the likenesses and differences on which these dialectic semblances of logical demonstration rely. Vātavāvana savs on this sūtra :----

"The dialectical consequences which are generated" when a logical reason is employed are called jati (pravukte hi hetau yah prusango jäyate, sa jätih). Where the reason is 'a proof of the probandum from likeness to the example' (NS 1.1.34), the jäti is a counter-argument relying 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 sati is a counter-argument through likeness to the example. A jati is thus something generated from opposition (pratyanikabhava) iāuamāno 'rtho jātur utu).

The last sūtra of the first book states that there are many kinds of jati, and of nigrahasthana, arising from the variety of likenesses and differences' which may serve as the ground of dialectical demurrers (jāti), and from the various sorts of misunderstanding and failure to understand which constitute futility (nugrahasthāna). But. contrary to the usual practise of the first book, no emimeration 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 jati and nigrahasthana, we do get a division of jate's (V.i.1) and a division of nigrahasthana's (V.i1.1), 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

Vityiyana clearly suggests an etymological explanation of the term fati in the word syste. But although fati is derived from sen, there is softing to recommend the suggestion that this particular sense bi fati mesha something generated or produced from a logical reason

Foquily the word sits, general nature, comes to have the meaning of a mendy distictional arguments because, such arguments arise from appear in more generalities, which "give forth directions too much at large" to dynamic a determinate reason (videopaties) capabile of leading to a deter-"NS I, ii. 18 tadeskalpö; jätinggahasthänabahuteam. minate, conclusion. L 51 7 C ... 14

enumeration and definition (uddeśa and laksaus), which are the characteristics of the first book; though it no doubt also contains that 'investigation' or examination of concepts (pariks) which characterises books II-IV'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 in dealing with the dialectical types of argument, the treatment of which, like that of fallacies, is inevitably largely a matter of classification.

As to the postponement of the classification, the mere length of the enumeration made it almost mevitable that it should form a separate book; and the same reason would have suggested the convenience of postporning 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 solid 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 unimportant one, which need have formed no essential part of the original 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 sophisticid opponents that its account of the matter was embodied even in the subsequent logic of

[&]quot;See Jhš, Transistion, Vol. w p 279, footinoie. He states that the Parsiaddal discusses the question whether the subject of the fifth book ig definition or examination, and thist Udayama decides that it is definition. He also cites the reasons given by Vicespati for the postposaries of the submitted of the examination.

those very opponents-that is to say the Buddhistsagainst whose methods we may perhaps conjecture that the fifth book of the Nyāyasūtra was largely directed. Aristotle devotes as much space proportionately to the Sophistici Elenchi¹ as the Nyāyasūtra does to the doctrine of jati and nigrahasthana; 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 logic² 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 tesk³

The names of all the twenty-four *jäti's* and in the word sama, which denotes equality or 'parity'', and seems to signify that the defendant's reasoning (sthāpanāhetu) is equalised or counter-balanced by a parallel dialectical semblance of proof. The names may usually be translated 'the counter-argument by ...',

"There is nothing to show that the parallelism between the systems is due to historical contact. There is general likeness between the Sophistics Elenche and the fifth book of the Ngdyasuita. But this sort of thing is not evidence of connection.

*Of. H. W. B. Joseph, Introduction to Logic, (2nd edn., Oxford, 1916) pp. 596-587. See also page 268 infra.

"As translated by Jhg.

Y do not manhane the Topus, increase Luban Lopp dd not dwriop s dortne of dushetal argument fem 'orannon plass' as opposed to hopp proper on the one hand and to coplation on the other ' I is true that the Mysissfirs stratestrates the use of ophatry and wranging for the defence of truth lhexmag it is the heige of thorns with which we protect the young hoods (NS TV, a 60). But thus as monderait, and only measu that you should be an experiment of the stratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestratestra

e.g. 'the counter-argument by similarity', and so on. The whole list is as follows :---

NS. V.i.1.

1.	sädharmya-sama	13.	anutpatti—
2.	vaidharmya—	14.	samsaya
3.	utkarşa—	15.	prakarana ¹ —
4.	apakarşa—	16.	ahetu—
5.	varnya	17.	arthāpatti—
6.	avarnya	18.	aviśesa
7.	vikalpa—	19.	upapatti
8.	sādhya ¹ —	20.	upalabdhi—
9.	prāpti—	21.	anupalabdhi
10.	aprāpti—	22.	anitya—
11.	prasanga	23.	nitya
12.	pratidrstänta_	24	kārua—

That is to say, the sophist or dialectician (*jāti-vādin*) may give the appearance of a refutation (*dāṣaṇābhāsa*) of even a valid argument by the use of one of these 24 dialectical devices⁵ :---

- 1. He may produce an irrelevant likeness to non-P,
- 2. or an irrelevant difference from P.
- 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.
- 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.

¹To be distinguished from the two types of fallacious middle term (hetelohdse) which bear the same names, and are described in NS I. il. 7-8.

[&]quot;For the Sanskrit names of each type see corresponding numbers in the first surven above.

- ..., C. 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.
 - Since the evidential cases are ex hypothesi like S, and since S is only doubtfully P (samaigdhasadhyarat), P being probandum, —then P is equally probandum in the evidential cases.
 - 9. M and P are already united, so that there is no passage from M to P; -
 - 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 is 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 common will always give rise to doubt whether S is P or non-P.
 - Any middle term is exposed to an antinomy and therefore only raises, without settling,

. The 24 juties

the question-at-issue. (This means that if you can find an M which is P, you can always—e.g. under No. 1—find in S another quality which is non-P. So there will always be what later logic called a satpratipakka, 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.
- 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.
- 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").

 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-percentionwhich 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 Sārhkhyas, the doctrine of satkāryazāda, as maintain with the Naiyāyikas the doctrine of saskāryazāda.)

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 *jātis*.

Nos. 1 and 2. Parity of likeness and unlikeness Sädhermyasama go together. If a conclusion is proved and vaidharmya- affirmatively or by likeness to the sama. point to (a) a likeness, or (b) an un-

likeness 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, hke a piece of matter. It can be retorted that (a) the soul is like ether, which is *inactive*, in respect of being all-pervaing; 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-pervaing, 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 Vacaspati points out, by conjunction with a tangible object which possesses vega, energy or velocity).

The subrakera's solution of this difficulty is obscure: gotad gosiddhivat latsiddh (NS V. i.3),—"the concluson (of a valid syllogism) is proved in the way in which a cow is proved, from its cow-hood". 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 1t seems to have had no influence on the theory and practice of the Nygag school: though the later Vaiseika school made use of merely formal inference of this sort to 'prove' that a thing is what it is because it is not other than what it is; and the habit of such demonstration by identity is a deformity in such a Vaiseika manual as the Saptapadarkh of Sivaditya.

Vātsyāyana explains the sūtra to mean that inconclusiveness (avyavasthā) will be found when a proof

¹⁷Mayiyana on NS II. u 60 asys that jút cannot be apprehended part from the mixrduel (spikis) and th form (dérig) though both he and the attrakfor (NS V. 18) accept the doctrine that the unversal (have called standards) us an object of perception (samiryska). and n NS II. 16 for same of the site-that the Sigri or determinate collocation of parts as the same of the interval (disting), and add that the same perception (same parts) and add that the same perception (same parts) and the same of the interval (disting), and add that the same perception (same parts) and the same perception (same parts) and the same perception (same parts) and the same perception (same perception) and the same perce

is proposed by mere hkeness or by mere difference (sāākarmagamātreņa saādharmyamātreņa ca sādhyasādhane pratijāšgamāne), but will be impossible where a peculiar charactar (dharmarisega) is taken as the middle term or probans. The proof of being a cow is from that hikeness to other cows which constitutes cow-hood, and not from its having a dewlap, etc.².

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 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 dialectician's (jātivādin) counter-argument presupposes that the relation of probans and mobandum 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 established, then it is a probative character that is taken as reason or middle term, and not a mere likeness nor a mere difference (sädhanabhütasva dharmasvopädänam, na sädharmuamätrasua na vaidharmuamätrasua vā)". This is a plain statement of difference between a properly logical argument and mere dialectic : though it must be admitted that Vātsvāvana does not succeed in telling us how we are to distinguish a sādhanahhūtadharma or risesahetu from a mere likeness or difference. That is. he does not give us any such canon of argument as the trairupya (see however under No. 22 intra). A justification for not telling us how proof proves is perhaps to be found in the interesting piece of Socratic

¹I do not see how this is to be reconciled with VäteyAyana's own statement as cuted in the preceding note. I take it that he here slips into a point of view which he did not really hold,—under the unmediate necessity of finding a meaning for the stire.

questioning with which he replies to No. 11, the prasangasama jäti, the burden of which is to demand from the Naiyāyika the credentials of the drstānta 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 (kāranāpadeša) 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, praiñāpanārtham sc. aprainātasva)? In fact an example is defined as something in regard to which there is unanimity of lay and learned (sa khalu laukikaparīksakānām vasmin arthe buddhisāmvam, drstānta iti). Statement of proof is useless for the purpose of giving knowledge of what is so defined'. This is the answer to the prasangasama'''.

No. 8 Sādhyašama. (Jhā) consists in attributing to the Example, not the

The dalactician's assertion here us, not that the particular deptation and by the derendent as determine, but has a such defer prior it core, as Villey, "pectual the such as such and without a reason there is no establishment fortune anteress sedder matrix". That is why Vakrykyna sampa to the second member of the Ump the language of the present passage for matrix there anteress sedder "bung the language of the present passage for matrix" is function is körzegelede or heteropadeds, i.e. to declare that there is a hete, a real reason of probaces, matrixet in the declare that there is a hete, a real

⁻ he provense, manufest in the organization with the use of spadels in the has of tantrayskit's in the sense of 'pointing out a cause', appears to throw light on the use of the words appears deadeds and anapadels in the Vailerike Stata, in the senses of hets and hetedohdse.

property 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 sādhya, that of which the property P is to be proved. Ergo, the example resembles it in being something of which the piece of matter is not like the soul in the respect of the argument", the opponent will say "then neither is the soul like the piece of matter is not like the soul in the respect 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 $s\bar{a}dhyasama$ hetsabhasi' of Book II and the $s\bar{a}dhyasama$ jāti 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 Samsayasama. The Naiyāyika has argued that sound is non-eternal because it follows upon

volition, like a pot. The opponent cannot show that this argument is *asyabhicăra*: but he says that *another* middle term could be taken which *is asryabhicăra*, 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)^a and sometimes non-eternal (as in the case

^{&#}x27;For which see page 197 supra.

[&]quot;Certainly a reference to the doctrine as taught in the Faulestka school.

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 stdharmyasama, is that the latter arises from skaadharmya (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 P and to non-P (whokayasdharmya).

This is a dialectical device for attributing to any argument the fallacy of *savyabicara*. It is related to that fallacy just as the *sādhyasama jāti* and the *prakaraņasama jāti* are related to the correspondingly named fallacies.

The next satura (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 non-P) has been grasped". The satura is an abnormally long one and adds an argumentum ad hominem against the Baudadha 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 Prakaranasama. vice for attributing the prakaransama fallowing [see p. 195] 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 ' (as well as a quality in which it

¹VEtsyEyans does not comment on this part of the sfitrs. JhE's translation seems to masunderstand it.

²As shown under No. I, södharmyasama. Sound resembles universals (which are eternal) in being perceptible. So that sound presents the com-

resembles -P's ubhayasādharmya), it can alwaya be maintained that even a valid middle term merely 'starts a question' (prakaranam praearfayath), i.e. gives rise to an antinomy (ubhayasādharmyāt prakriyašiddheh prakaranasamah. NS. V. i. 16).

No. 16 Rejoinder that a reason is no reason (ahetusama) NS V. i: 18. Any so-called reason is just like a reason which is no reason. How so?-traikālyāsiddheh,-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 after, since the probans does not yet exist there is nothing of which the so-called probandum is the probandum (and therefore it can-not be called probandum, and so the probans being left without a probandum is not a probans). ΤŤ simultaneously, then, since both exist together, which is probans of which ? and which is probandum of which? A reason, therefore, cannot be distinguished from what is not a reason (hetur ahetunā na visisyate). The ahetusama is a rejoinder based on the resemblance of a reason to what is not a reason (ahetunā sādharmyāt pratyavasthānam ahetusamah).

 [This sounds Buddhistic, and resembles the kind of dialectic employed by Nāgārjuna against the validity of reasoning, in his Mādhyamika Kārikā.]

bination of perceptibility with dependence-on-volution. If perceptibility were confined, to detain things, there would be a genuino antinomy (wraddhögen bladern, szipratipaka) (or, sa Pradsatapáda puta it, the combination of properties, void be, sa such perclinat to sound (assidhareas), and there would be the analysignessite fallesy). But of course perceptibility is not esystemicirus with reference to esternality.

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 probandum is ported | 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 probars⁶—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. Satra 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 (arthāpattisama) NS. V. i. 21. Implication will always convey the contradictory of any conclusion, and so every argument is exposed to the *arthāpattisama* dialectic.

Thus, if you argue that sound is non-eternal because of its likeness to non-eternal things, then from your very statement there emerges the implication (arthad *äpatigate*) that, because of its likeness to eternal things, it is eternal? And as a matter of fact sound is like an eternal thing, namely, ether, in respect of being intangible (this however is forged by way of another piece of dialoctic, riz. -No. 1, subharmyosama. It is thentformed here tweetly as confirming the result of the frequent systems that an of the second state of the The use of arth&patti is different from and more primitive than its use in the classical Nydya, and the Mirnämäs. In the Nydya Satra and Bhäya the term means nearly what it meant in the lists of cantrayukti in Kautilya and Suśruta, 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 P. There is of course no logical necessity about such 'implication', as the Navigyika points out in the soluton given in the next sitra.

Solution of No. 17 NS. V. i. 22. In the first place, if we are to read into statements meanings which are not sta-

ted, then the 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 (*naksakām*).

And yet we can read this implication into his statement,—just because it is not stated 1. In the second place, such implications from bare opposition (*riparyayamäträä arthäpattik*) 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 1

No. 18 Rejoinder by Non-difference (avisesasama) NS, V. i. 23. One quality is found common to sound and 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* things are nondifferent, i.e. identical.

Reply to No. 18 We infer another quality, viz., NS V i 94 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 (pratijnārthavyatiriktam anyad $ud\bar{a}haranam n\bar{a}sti)^1$. And if there is no example a reason cannot be valid (anudāharanas ca hetur nāsti). And you may not take part of your subject for an example : for that which is to be proved cannot be an example (pratijňaikadesasya codāharanatvam anupapannam, na hi sādhvam udāharanam bhavati).

And since existent^{*} 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

[&]quot;That is to say the argument would come under Uddyotakara's rubric of orudyomdmasopakyaopakya, an argument in which neither positive nor negative orudence is available, and which is therefore invalid. It was afterwards known as the enspectember fallacy.

[&]quot;The true reading is supplied by the Benares 1990 edition-sataf consistent with a state of the set of the set

impossible for him to deny this position (which he desires to denv)1

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 '-e.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 chapter on *jāti*; 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-

The causes of either of the two alternatives are to be found in the subject of inference : if you happen to take one you get one result, and if you happen to take the other you get the ma), 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

[&]quot;The Bouddha would not wish to deny this; though the Mimärheaka would. It looks as if the dislectual opponent here were a Mimamaska, if the text is right. But perhaps the Bauddha would wish to deny it merely because the Asigdyiks maintains it.

ground of eternality: and then you will draw the conclusion that sound is eternal. Such rejoinder through possibility of taking the ground of either conclusion (ubhayasya karanopapattya pratyarasthanam) constitutes "the dialectic of equal possibilites" (uppattisamd).

No. 20 Rejoinder by Plurality of Causes (upalabdhisama) NS. V. 1. 27. This rejoinder is based on the fact that there is experience (upalabihi) of the effect even in the absence of the alleged cause (nirdistakāraņābhāve 'py upalambhād upalabhāsamah). 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 (nirdistasya sūdhanasyābhāve "pi sūdhyadharmopalabdhyā pratyavasthānam upa-Labdhisamah)

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 (käranäntarädapi tadåharmopapatter apratisedhah).—The man who argues that sound is eternal because it follows on voliton means to assert that it follows from a cause, and not that the effect is restricted to this particular cause (ac käryasya

Work Uddycakars and Vesapati Main fell some duffoulty in distingualing this from the protospacement with No. 15. The difference (which both of them indoxe) is samply that in No. 19 the emphases is laid on the potentiality of an animoury, whereas an No. 19 the softwal statutomy is search as the beam of the repositer. The point in No. 19 is the arbitrarsset of possibility.

kārananivamah). 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 Naivāvika 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. Uddvotakara's rubric for this type is sapaksaikadesavriti, 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 'Unperceiv- against the defendant's proof ed non-percep- that a thing is not present tion' (anupa- because he does not see it). The labdhisama) rejoinder to this is that "the NS. V i. 29. opposite is possible, seeing that the absence (of his non-percep-

tion of the thing) may be argued on the ground that he does not perceive his non-perception". The sūtra is involved, but there is no room for doubt as

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 failure 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 sitra Vätsyäyana interprets this piece of dialectic as applying to the argument for the non-eternality of sound". "It cannot be said, as the Mimämsaka says, that sound existed even before that manifestation of it which the Naiyāyika calls the 'production' of it, but that it was not perceived on account of certain obstacles or impediments (dwarna) which constitute causes of non-apprehension (agraknakārana). For (as we Naiyāyikas 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 Bejonder 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 assorting 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 praiyarasthitah) 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 than absence of perception." Anupalambhätmakatväd anupalabdh-

er ahetuh.

¹It has in fact been used by an opponent in the section on the impermanence of sound, NS II. 11. 19-21, and V. 1 80 is identical with II. 11. 21.

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, i.e. 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 nonapprehension 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 non-perception 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 difficulty (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 mg = -1

NS. V. i. 31.

"(And further the reasoning of the Rejoinder 18 invalid) because there is a feeling within us (sampedanād adhuātmam)

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' (samśayajñānam)1, 'I have no cognition of doubt,' is one among the various classes of cognition produced by perception, inference, testimony, and scripture^{*}. And this non-perception of obstacles, etc ,-or absence of perception-is self-felt (svasamvedya), 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).

^{&#}x27;Or a cognition of doubt. In the case of knowledge of our own states the distinction between cognition in the form 'ghafo' year asts', and cognition in the form 'ghafam sharh jänömi' can hardiv arise so that it does not matter how we render somdayayidan.

Protoclednum datageneum reprint marger Smyri mught mean memory hore, as Dr Jbis renders it -This is clearly intended for a common sense and nois a philosophical hist of the sources of knowledge. Otherwise upsendence source of knowledge, if empti means memory though it is so for entimary hinting --II empti means arrenory though it is so for entimary mention it again, for it is a more spracym of dysorm, it was not necessary to mention it again, for it is a more spracym of dysorm, entities and the source of though the source of the source of the source of the source of mention it again, for it is a more spracym of dysorm, entities and the source of more source of the source of the source of the source of the source of more source of the source of the source of the source of the source of NaugSpaces of later times did not source it. Parhape this passage reflects an activitie tondency to ingrow the.

The interesting thing in this discussion is the account of self-awareness indicated in sutra 31 and in the Bhasya thereon. The Bauddha view was that a state of mind is aware of itself (svasamvedantya). The Mimāmsaka 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 (sampittavaiva samvedya1). 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 Mimāmsaka who maintains that the soul or self is the knower. But it differs from the Mimamsaka view in making ' inner perception ' (manasapratyaksa) completely parallel with 'outer perception' (bahyendriyapratuaksa), 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 indrivarthasamnikarsa, 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 Mimāmsaka view.—So far as the sūtra itself is concerned this is only to be expected; for the sūtra nowhere asserts that manas is an indriya or organ of inner perception, but on the contrary explicitly denies this in at

¹A phrase from Frabhikara quoted by Dr. Jhis in his *Problekare* School of Parsa Mindinkal. Dr. Jhis however points out that the Mindinkal. Glows that states of mund are objects of inference, though not of perception. We do not perceive them, but we may infer their existence, so that they and become objects of inferential knowledge.

least one passage (III. ii. 56. aindrivakatvād rūnādīnām 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. Vātsvāvana commenting on this says that cognition is not imperceptible, because we are conscious of it (napratuaksa samveduatvat), but that it is not grasped by a sense-organ because it is the object of manas (nendrivaarāhvā manovisavatvāt). This is plain enough : and there are many other passages in which he uses the language of sampritti and sampedana¹ and none in which he speaks of mānasa-pratuaksa. The latter doctrine is certainly a post-Bhāsya development : though the germ of it is to be found in the admission into which in one passage' Vatsvavana allows himself to be forced by the apparent logic of facts, that the sister-sastra is right in classing manas as an indriva and that this implication is to be read into the Nyāva-sūtra itself. Dinnāga forcibly pointed out the corollaries of this admission, with the result that the later Naivāvika school allowed itself to be hampered with the unfortunate 'internal sense' (mānasa-pratyakşa) 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 apprehen-sion : and the Naiyāyika 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.'

¹e g. Bhāşya on H. H. 1-2, HI. H. 81
³See Bhāşya on I. 1 4, and pages 101-102 supra.
⁴Fragment B. See above, footnote 4, page 102.

No. 22 Rejoinder by parity of non-eternality (anityasama). NS. V. i. 32. Since from a likeness community of property follows, the (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 *aviseşasama*, No. 18; which is a dialectical device for showing that everything can be proved of anything, so that in effect no *specific* proof exists.

Revilu to No 22 The opponent does not prove NS. V. i. 33-34 the contraductory 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 invalid¹!

Sūtra 34. Further, because the 'reason' is a quality known in the example to stand in the relation of a probans to a probandum (sādhyasādhanabhāvena prajnātasya dharmasya hetutrāt), and because it is found in both ways (ubhayathābhāvāt), it is not true that our middle term falls to distinguish or is not specific (avišesub).''

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

Beading with the Benares 1920 edn. sädharmyäd asiddheh pratiedhäeiddhih pratiedhyasädharmyäc ca.

The Vis., text read pratisedhyasiddhih. It notes the omission of og as an MS variant.

Bauddha logicians (either Vasubandhu or Dinnāga) offers as a definition of a valid middle term the phrase vipaksād višesah, "that which excludes from non-P." Now the dialectical device of arisesasama-No. 18. which is identical in principle with the present *inti*.--consists in attempting to argue that the very principleof inference is such that there is always exclusion from non-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 saving that there is no such thing as a visesahetu. (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 ubhayatha bhavat 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 the trairūpya, consists in the fact it is (a) found with P-sapakse sattvam, and (b) not found with non-Pasattram 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 P and as excluded from non-P. Vātsyāyana interprets the phrase by kenacit samānah kutascid visistah-the middle term is "common to some things and excluded from others." This is a plain foreshadowing of the two 'canons' of the trairūpya referred to above; and there seems to be no doubt that Vātsvāvana 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 "-sāmānvāt sādharmvam. visesāc ca vaidharmvam.

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 Nyäyazitra. The sophistic ielenchi came early in the order of development of logical conceptions. Out of this the syllogistic technic arcse, 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 Nyáyasütra 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.

SECTION S. THE SIX STEPS IN TU QUOQUE DIALECTIC (\$ATPAK\$I)

The concluding section of the first dinika of the fifth adhydya of the Nydya Sutra (NS. V. i. 39-43) points out 'for the instruction of the pupil ' that a merely dialectical re-rejoinder or 't u 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 (matinuyina). The final or sixth step consists in the opponent's retorting with another tu quoque fastening the charge of matinuyin a the defendant's tu quoque (third step). Thus:—

1. Thesis (paksa) :

Defendant. Sound is non-eternal, because it follows after volution.

2. Rejonder (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):

 $\begin{array}{cccccc} Defendant. & Your rejounder is open to \\ NS. V & 1 & 39 & \\ after effort may as well mean \\ production as manifestation. Therefore you cannot$ say that it is not true that sound is non-eternal.Therefore, since you have not disproved my thesis, $it stands! \\ \end{array}$

NS. V i. 40. (The defendant at this point ought to have met the opponent

by showing that his own thesis was based on a risequater. Instead of that he contents himself with eaving that the absence of a risequater is common to both parties, to the opponent as well as to himself. The next surra—NS. V. i. 40, surratraiora, 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 satpatpate, which will then proceed as follows):—

4. Retort to the re-rejoinder.

Opponent. Your re-rejoinder (pratise-NS. V. i. 41. dhavipratisedha, i.e., the third step) itself commits the same fault which it urges against my rejoinder' (i.e. the second step)-the fault of inconclusiveness (anaikāntikatva)^a. 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 atanda l

5. Rejoinder to 4. Defendant. When you say that my re-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 invalid without making any attempt to remove its invalidity : and this amounts to the futility (nigrahasthāna) called matānujñā, i.e. admission of your opponent's position

6. Retort to 5.

In the same way you your-Opponent. NS. V. i. 43. self 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 guoque, therefore 1 i.e. you too are guilty of the futility called matanuiña.

The Nydyasütravitti reads this sutra (V. 1. 41)

Praiseethampraiseethe praiseethado savad dosth. The Vinanagram edn. also reads this. But the 1920 edition reads the stire differently in connection with the Bhdsys, though in connection with the Vrsts it gives it in the above form. As connected with the Bhasya the sutra is given as ----

Pratssedhe vspratssedho pratssedhadosavad dosāh.

This must be a more error, for on p. 509 l. 19, when the store is cited in the Bhāşya, it is read in the other form. "So the Bhāşya.

Herewith the logic of the tu quoque comes to a natural stop, though not to a conclusion. The satpakst is not mere triffing. 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 Sophistic Elench.

Vātsyāyana points this moral quite clearly at the end of his comment on V. i. 43 "When does the satpaksi 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 satpaksi occurs). But when the third step is on the lines of the reply given in sutra 38 to the kārvasama 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 visesahetu, 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 satpaksi."

The most significant result which emerges from this examination of the *şatpakşi* is therefore the insistence upon the necessity of a *viseşahetu*, a reason which is peculiar to the *probandum* (P) and excludes the opponent's alternative (non-P). The Naiyāyīka's *viseşahetu* corresponds' in fact to the Aristotelian *agodeizis*. It is demonstration.

¹I do not mean that it is identical with, or even closely resembles, the Aristotelian conception of what demonstration means.

SECTION & DEFEAT 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 debate¹. The closing section of the Nyāva Sūtra 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 nigrahasthana's being the different conditions under which a disputant may fairly be considered to have 'taken the count '. 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 be 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 If he talks irrelevantly, в or uses words which have no recogobscurity. nised meaning, or is quite obscure, or

"Professional men debated as well as philosophers. Caraka in his work on Mediane has a section on debate in which he points out under what circumstances it is advisable to enter the lists, and what expedients are to be employed. No doubt Wasubandhu's lost *Vädesuda*, *Vädesudalya*, and Vadamdrag corresponded in contents with this section of the Caraka Somhitä

"The seven heads under which the 22 nugrahasthanas are here grouped are Väcaspatı Mıśra's arrangement

The Sanskrit names are -

- 1. pratijhāhāni 2. pratijhāntara 8. pratijhāvirodha
- 4. pratsinäsannyäsa 5. hetvantara
- 6. arthäntara
- 7. nsrarthaka
- 8. avyfiātārtha
- 9. spärthaka
- 10. aprēptakāla
- 11. nyana 19. adhika

- 18 (a) punarukta
- (b) punarvacana
- 14. ananubhāsana
- 15. antāna
- 16. apratibhā
- 17 piksepa
- 18 matānujfiā
- 19. paryanuyojyopsksana 20. nuranuyojyänuyoga 21. apasiddhänta

- katoābhāsa.

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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 state-

ment) (13a 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).

 $\vec{\Gamma}$. 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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