PA 2350

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"MODUS"

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THE PHINARY MEANINGS

FACULTY OF HILLOSOPHY

A THESIS

SUBMITTED TO THE GRADUATE SCHOOL

OF LAVAL UNIVERSITY

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

DOCTOR OF PHILOSOPHY

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THE PRIMARY MEANINGS OF THE LATIN WORD MODUS

Quebec

April,1963

PROPOSITIONES

H Ducit magister discipulum ex praecognitis in cognitione ignotorum dupliciter.

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Phantasma est principium nostrae cognitionis permanens ut quoddam fundamentum intellectualis operationis.

Gemus est quod de pluribus et differentibus specie in eo quod quid est praedicatur.

In scientia morali oportet procedere verisimiliter.

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'n Ad primum philosophum et ad naturalem pertinet considerare hoc nomen Natura.

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INTRODUCTION

other meanings are seen to be proportional to the first meaning. In a short conclusion the results of the research are summarized. imposition are submitted to a rigorous analysis. In Chapter Five delineated. modus; finally, the characteristics of the first imposition are Three the etymology of the word is discussed in some detail; further that the gravity of the issues at stake may be appreciated. In Chapter accurate understanding of the meanings of the word are enumerated so philosophical and even theological problems that depend upon an discussed with relation to grammar and logic. concerning the role of quantity in the way that man imposes names is its extensive use in philosophy. In Chapter One an important principle the primary impositions of the word modus in Latin in order to justify the English word 'size' is suggested as the translation of The purpose of this thesis is to discover the order among In Chapter Four the elements implied in the first In Chapter Two certain

is properly metaphysical, for the meanings involved extend far beyond its necessary place in philosophy. the subject-matter of logic, philosophy of nature, mathematics, or grammar the order of the meanings of the word modus with a view to justifying Nobody, to my knowledge, has ever undertaken the task of following The findings of this thesis are presented as probable It must be remarked that the task

the research pursued so far in order to profit from the knowledge Because of the difficulties involved, I submit the results

and criticisms of others. For it seems apparent that an exhaustive study of modus would extend well over a thousand pages of text accompanied by an untold number of footnotes. Such a task cannot prudently be undertaken alone.

Boulay, who also directed my licence thesis (a chronological study Msgr. Maurice Dionne, for his kindness in reading the first chapter of the thesis; to for his enthusiastic and learned lectures on language theory and for hours of discussion on the modal character of sacramental grace; De Christo and De Sacramentis; to Father R. R. Masterson, O. T. U. Mallaney, O. P., for lectures on modus in his courses on distinction through geometrical designs and colored chalk; to Father introduction to such problems as subsistence and the modal Father D. intellectual debts is to relate the history of the thesis. his continuous encouragement not to be in a hurry many of the of the Thomistic texts concerning modus) for the wise counsels the thesis from many an error; finally to my director, intellectual perspicacity and his logical acumen which have saved animated by his exemplary fidelity to the letter and doctrine of Mr. Roch Valin, director of the Laval Institute of Linguistics, Thomas Aquinas, To make an adequate number of acknowledgements J. McMahon, O.P., complicated aspects of the meanings of modus, and for for his enlightening observations concerning dean of the Faculty of Philosophy, I am indebted for the initial ę, Father Jasmin for his ä 70

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CHAPTER ONE

QUANTITY AND THE PROCESS OF NAMING

Beings exist; beings are known; beings are named. Another way of expressing the same triology is to assert that things may be considered from the viewpoint of their way of existing, of being known, or of being named. The foundation of this exhaustive division is not the nature of things, but something external to their nature; for whether a thing exists, is known, or is named, it is still the same in nature. This external something has often been referred to by the word 'mode'. Indeed, for centuries philosophers have spoken of the mode of being, the mode of knowing, and the mode of signifying.

[&]quot;Nomina enim non sequuntur modum essendi qui est in rebus, sed modum essendi secundum quod in cognitione nostra est." St. Thomas Aquinas, Summa Theologiae, I, q. 13, a. 9, ad 2. "Modus significandi sequitur modum intelligendi." Thid., q. 45, a. 2, ad 2. When these two texts are compared with in Vol. I of the Opera Omnia of Duns Scotus, Vives, 1891, pp. 1-50. Reprinted by Librairi M. Doyon, Québec, 1962. matica Speculativa of Thomas of Erfort (circa 1350), in Vol. I of the Opera Omnia of Duns Scotus, Paris, of the Middle Ages. philosophy at the beginning of the speculative grammars for placing the role of language with relation to logic and active and passive. The mode of being of things cannot be distinguished into that between that which actually signifies and the signified on the opposition between the knower and known as well as an active and a passive mode of knowing as well as an active and a passive mode of signifying. This distinction is based (q. 12, a. 11, c.), "modus cognitionis sequitur modum naturae rei cognoscentis" the foundations are laid for distinguishing These divisions became the groundwork Cf. the most excellent example, Gram-f Thomas of Erfort (circa 1350), found Reprinted by Librairie Philosophique Louis

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In the order given hase, these three modes are listed according to their importance; natural beings exist before they are known by us, and they are known before they are named. They must also be considered in a reverse order, namely, the order of teaching. By using words or names, the teacher reveals the knowledge that he has already acquired, and by this knowledge he leads his students to the reality of things.

importance in philosophical considerations. This problem faces each individual and the human race as a whole, because no man can search after truth alone. Not only must man pursue truth in community but he must also do so with the proper tools, among which language certainly holds a primordial position. Since, for the most part, man must content himself with a posteriori arguments, it is by analyzing the process of naming, an effect of the process of knowing, that man has made progress in his search after wisdom. Nor must we forget that the process of knowing is an effect consequent upon the existence of things.

Man is a compound of matter and form : more properly, of body and of soul. In the light of their substantial union, the psychology of knowledge can be explained, for the nature of man's intellectual ability to abstract the essences of material things from the imagination is determined by the relationship that exists between his imagination and intellect. In the light of his profound grasp of the way that the human intellect is dependent on the internal sense powers, St. Thomas Aquinas has enunciated a very important

^{1) &}quot;Alius est ordo servandus in accipiendo cognitionem, et tradendo. Accipiens enim cognitionem procedit de signis ad signata, quasi modo resolutorio, quia signa magis sunt nota quoad ipsum; sed tradens oognitionem signorum, oportet quod res ante signa manifestet, eo quod signa sumuntur per similitudinem ad res; unde oportet praecognoscere res ad cognitionem signorum, ad quarum similitudinem sumuntur." St. Thomas Aquinas, Scriptum Super Sententiis Magistri Petri Lombardi, I, d. 1, expositio textus.

જ (૪) intelligibiles, ex quibus scientia per doctrinam accepta constituitur, immediate quidem per intellectum agentem, "Dicendum quod magister non causat lumen intelligibile in accipit, quamvis verba doctoris propinquius se habent ad causandum scientiam quam sensibilia extra animam existentia, inquantum sunt signa intelligibilium intentionum." scientiam in intellectu sicut res quae sunt extra animam rum intelligibilium signa, ex quibus intellectus agens sed mediate per sum qui docet. quarum signa sibi proponit exterius." Ibid., S. T., I q. 117, a. I. ad 3. "In discipulo describuntur formae discipulum per suam doctrinam ad hoc, quod ipse per virtutem sui intellectus formet intelligibiles conceptiones, quarum signa sibi proponit exterius." Ibid., S. T., I, quia ex utrisque intellectus intentiones intelligibiles intellectu possibili : unde ipsa verba doctoris audita, De Veritate, q. 11, a. 1, ad 11. vel visa in scripto, hoc modo se habent ad causandum accipit intentiones intelligibiles, et describit eas in discipulo, nec directe species intelligibiles; sed movet Proponit enim doctor re-

^{(1) &}quot;... no one is able to attain the truth adequately, while, on the other hand, we do not collectively fail, but every one says something true about the nature of things, and while individually we contribute little or nothing to the truth, by the union of all a considerable amount is amassed." Aristotle, Metaphysics, 993 a 31 - b 3. (tr. by W. D.Ross).

^{(2) &}quot;Language is the most important instrument we possess."
C. K. Ogden and I. A. Richards, The Meaning of Meaning, 1947, p. 242.

principle which may be cited here without necessarily receiving all of the proof of its veracity. This principle will be illustrated in the following thesis by the study of the history and the first meanings of the Latin word modus.

Following Aristotle, St. Thomas constantly insists that all of man's intellectual knowledge, obtained under natural conditions, finds its necessary starting point in the internal and external senses. Going on to note that the imagination and sense cannot transcend continuous quantity, he draws conclusions that touch even the way that the Christian must speak about the Holy 'prinity. In justifying the use of the word 'procession' of the Second and Third Persons from the Father, he lays down as the principle of solution that man transfers names from elements which are first found in what is continuous to everything that is grasped by the human intellect.

Respondeo dicendum, quod cognitio intellectiva in nobis sumit principium a phantasia, et sensu, quae ultra continuum se non extendunt; et inde est quod ex his quae in continuo inveniuntur, transumimus nomina ad omnia quae capimus intellectu (1).

This rarely cited text from De Potentia is a source of admiration, if not stupefaction, for two closely related reasons. Firstly, it asserts as inevitable that the human intellect depends upon quantity, in spite of the fact that the human intellect is not itself a knowing power that depends intrinsically upon a material organ for

or by means of denying the perfection of in which the intellect sees all that it sees. in his process of knowing can man detach himself from his imagination, everything in the imagination by means of a perfect representation operations. The phantasms are related to the intellect as objects knowledge but rather a permanent foundation of intellectual clear that, in a special way, the imagination is a principle of human the starting point of understanding. universal principle in the process of giving names. the exercise of its proper operation. intellectual naming can be completely disassociated from quantity, because never (specifically, continuous or dimensive quantity) is stated to activity; it is not a passing or transient condition of Elsewhere, St. Thomas has made Secondly, quantity, the representation The intellect sees No process 99

ommonly called psychology, can guarantee the validity of the principle stated above, one has acquired an extraordinarily valuable principle of methodology with which to begin looking for the etymologies and impositions of those terms which have become unavoidable means of communicating ideas in philosophy. Looking for the initial etymology and the various successive impositions of a perticular word should rigourously involve two phases showing:

(1) how the word implies something quantitative, and (2) how the

^{(1) -} De Potentia, q. 10, a. 1, c. Cf. q. 3, a. 19; also De Veritate, q. 15, a. 2.

⁽¹⁾ Expositio Super Librum Boethii De Trimitate, q. 5, a. 2, ad 5, (ed. Decker).

aspects of quantity. These points will become clear later on in the treatment of the history of the word modus.

Reference has already been made to the fact that psychology is entitled to analyse the activity of giving names insofar as it is related to the activity of knowing. It would not be out of place to ask the following question directly: who has the right to discuss the naming process considered in itself?

At first sight, it would seem that the naming process is necessarily identified with the history of language. The angument for this position would maintain that, even though language is related to man's search after truth, this search as a process is something historical and therefore inevitably resolves in something contingent. Furthermore, man seems to create words because he lives in society; carried to its logical conclusion, this position would imply that language is only a social custom, a sociological relationship which, being mutable, can be resolved to something accidental to man.

individual creates a means of expression of his needs, decires and **processes** - has been created for two roles. language - for after all, languages are complexly elaborated naming superficial. language or even something sociological appears both specious and accidental or sociological. It it were to be developed completely, reduced exclusively to the contingent or historical, and the needs of society. Thus language cannot be properly understood if two roles : an individual needs words for his own sake prior to the to speak or to communicate with himself, that is, to clarify and to fellows. Secondly, each man is obliged also to create words in order thoughts, in order to communicate with, or become one with, his existence of speculative knowledge. ordered to society implies ultimately the destruction or nonlanguage would make clear that the opinion that words are first advance his own thought. the proof concerning the proper subordination of the two roles of To identify the naming process with either the history of Such a position can be refuted by maintaining that An order can be perceived between these However, here is not the place More obviously, an

⁽¹⁾ Just as Aristotle indicates in the first chapter of the Ferl Hermeneias that centain considerations presupposed to the subject of Logic are treated in the De Anima, so too certain psychological considerations are considered prior to the subject of grammar, or to use a modern term/linguistics.

^{(2) &}quot;Language is primarily a social phenomenon." This statement is asserted to be the "first law of language" by Mario Pei, who may be taken here as a representative of the overwhelming positivistic influence which dominates many, if not most, linguistic discussions. Cf. his language for Everybody, p. 106.

^{(1) &}quot;Pali autem sermone (secundum quod sic significativus est concepti) utitur homo ad seipsum et ad alium." St. Albert the Great, De Praedicabilibus, Tr. 1, c. 4, p. 9 a-b. (Ed.Doyon).

⁽²⁾ As an example of the extreme importance of a correct notion of the purpose of language, the following passage from a book defending democracy against communism is enlightening.

[&]quot;The issue here involved may be clarified by asking whether we are to consider man only as homo-fabricans or whether as homo-linguans also. Which is of first significance in the life of man; his power of speech or

to undertake a defense of the reality of speculative knowledge and the way it entails, in man, words and language.

process is to be identified with the history of language. names as man has grown in knowledge; too, it records the destruction implies movement. The history of language records the changing of different things, subordination to speculative knowledge, it would seem that the naming particular much of the success of the Greek people in art and is due in great measure to the successful means of communication development of a given people to a particular degree development and destruction of things. of different languages and cultures, for time involves both the truths more difficult, certain truths more readily while in contrary fashion it makes other developed; Still, even if words receive their dignity from their even if one type of language enables its even naming the same thing in different ways, if not impossible, F Even if it be true that the of access; users to discover of civilization even if, in Nami.ng

philosophy is to be accredited to the peculiar structure of their means of communication, the Greek language, still any language, because it implies time, is historical.

The protagonists of such a position would maintain that the naming process is a subject-matter to be discussed in "grammar". Here the traditional word 'grammar' is intended to include everything that the word 'linguistics' suggests in this modern era. Yet, this position would go on to reduce the grammarian to the mere function of recording social phenomena and their history.

work. discuss the naming process and to lay down universal canons for it. matter of logic; for they are definitions concerning words, whereas this position would go further to deny the logician any right to great importance today, because the validity of the universal necessarily engaged in the analysis of a particular language is some way have the right to treat of words, then the logician belogic treats of things precisely as they are known. denominative names with which Aristotle opens his first logical As an example, peculiar to a particular language. of analysing abstract thought and is obliged to study the logic comes involved in history in such a way that he no longer is capable Besides diminishing the traditional role of the The Categories, would not seem to pertain to the subjectthe definitions of univocal, equivocal, Whether or not logic is Ħ grammarian, he does in ဋ

his power of fashioning new instruments of production? Put speech first, and we still retain all that is of value to him in the second aspect; but put the economic in first place and the essential significance of speech is denied, words become not the vehicles of a living truth but the mere fabricated counters of social communication. This is the real issue as between the two sides of the Iron Curtain. Not only does Marx explicitly affirm the all-supremacy of homo-fabricans; but on our side it is precisely the primacy of the word that is enshrined in the constitutions of our constitutional democracies." J. Farthing, Freedom Weers a Crown, pp. 153-154.

^{(1) &}quot;Tempus per se magis est causa corruptionis quam generationis". St. Thomas, in Octo Libros De Physico Auditu, Lib. IV, 1. 22, no. 1197, cf. no. 1161, (ed. Firotta).

^{(2) &}quot;In fact most of the great cultures of the world seem to

have been developed by civilizations which attached the greatest importance to the study of language and choice pieces of writing." Charlton Laird, The Miracle of Language, p. 232.

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character of the logic of Aristotle is called into doubt since it does not apply to the Chinese language. If the Chinese language uses a naming process or a mode of signifying which is incapable of logical analysis, then logic, in the Aristotelean sense of the word, is not capable of laying down universal canons regarding words.

This brings us to the problem of Chinese logic which is based on the Chinese conception of truth. Truth, according to the Chinese, can never be proved; it can only be suggested... truth cannot be proved although it may be grasped by the mind in a "dialectics without words" (Chuangtse) (1).

Indeed, if truth can be grasped without words, then Aristotle made a catastrophic error in orienting his entire logical corpus by beginning with definitions concerning words.

The entire response to this position which is extremely critical of the traditional role assigned to grammar and logic in

e.g. whether one writes with ink or pencil, he is still writing. with the circumstances of any particular realization or use of it, use. distinguished from the thousand and one times that it is put to writing, or again, writing must be distinguished from any particular instance of some have failed to grasp its full impact. from the exercise of the naming process, the nature of the naming process must be carefully distinguished Unfortunately, the synchronic and the diachronic viewpoint on language Ferdinand De Saussure made the proper distinction when speaking of of grammar to the naming process. In the field of modern linguistics, to be proposed here concerns the relation not only of logic but also not to be identified with the history of language. The distinction profoundly the nature of the naming process. ready been made concerning the double role or purpose of language. Language, even though a knowledge of history is needed to grasp The naming process is never to be identified with the history of distinction is even more fundamental than the one which has al-Western culture lies upon one important distinction. For the conditions of the nature of a thing are not identical though most modern linguists admit this distinction, as the cooking pan in the kitchen must be exactly as the nature of Stated in other terms, Indeed, language is

It must also be pointed out that the nature of language is to be discovered by starting to analyse the exercise of language,

⁽¹⁾ Hin Yutang, My Country and My People, p. 88.

^{(2) &}quot;If Aristotle had spoken Chinese or Dacotan, he would have had to adopt an entirely different Logic, or at any rate an entirely different theory of Categories."

Mauthner, Kritik der Sprache, Vol. III, p. 4. This is ented by Ogden and Richards, Op. cit., p. 35. These latter authors also write: "Mauthner, after a detailed argument to show that the Aristotelian doctrines of the Negative and the Categories made the extant forms of speech the objects of a superstitious cult, as though they had been actual deities, remarks that Aristotle is dead because he was, more than perhaps any other notable writer in the whole history of Philosophy, superstitious-ly dependend on the accidents of language, on the accidents of his mother-tongue."

⁽¹⁾ Cf. Ferdinand De Saussure, Cours de Linguistique générale, p. 117.

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just as the nature of any instrument in all of its fullness is discovered by analysing the use we make of it. In this way, the history of language is necessary to the discovery of the nature of language since by an analysis of the extent and subtlety implied by the exercise of an instrument, the comprehension of the need prompting the invention of the instrument is attained. Since no particular use of language can adequately reveal the total power or the complexity of this instrument, only an adequate comparison of various uses can reveal the nature of that which lies behind and gives existence to each and every use.

and is an attempt to name and reveal what the speaker is talking Each act of speaking bridges this gap, and, in doing so, reveals or knowledge of reality and his actual expression of this experience an abyss or gap that the speaker has to bridge between his experience to realize the nature of language when we observe that there exists about. something which nature did not provide, namely a means of expression. communicate with himself or with others, the speaker has had to use manifesting not only the thing but also the speaker). is not only a symbolum rei, conscious of this point is indicated when he observed that a word something about the speaker. That St. Albert the Great was extremely his innate skill in constructing a system of representation and Man, a being endowed with reason and skill, has had to use and develop expression. Language is a manifestation. Since Language is not merely the use of language, In other words, man, using his practical intellect but also a symbolum loquentis (a sign E Each act of speaking has been In order to we begin

^{(&}lt;del>L) statu intelligimus, cognoscuntur a nobis per comparationem ad res sensibiles naturales." S. T., I, q. 84, a. 8. From this we can gather that no grammatical theory or rule is worth more than the evidence given by the proper analysis si sensibilia ignorentur. Omnia autem quae in praesenti autem quod non posset esse perfectum iudicium fabri de cul-tello, si opus ignoraret; et similiter non potest esse perraretur id quod est terminus et finis iudicii. Dicit autem Philosophus, in III de Caelo, quod sicut finis factivae scientiae est opus, ita naturalis scientiae finis est quod videtur principaliter secundum sensum ; faber enim non quaerit cognitionem cultelli nisi propter opus, ut operetur of spoken or written language. rit cognoscere naturam lapidis et oqui, nisi ut sciat ra-(c. 8), quod sensus sunt extremi sicut intellectus principio-rum; extrema appellans illa in quae fit rosolutio judican-tis." De Veritate, q. 12, a. 3, ad 2. "Proprium objectum tet ad sensum quodammodo resolvere omnia de quibus judicamus; unde Philosophus dicit in III Coel. et Mundi, quod complementum artis et naturae est res sensibilis visibilis, ex "Sed quia principium nostrae cognitionis est sensus, oporfectum iudicium scientiae naturalis de rebus naturalibus, hunc particularem cultellum; et similiter naturalis non quaeea omnia quae ad rem pertinet cognoscantur; et praecipue si intellectui nostro proportionatum est natura rei sensibilis qua debemus de allis judicare; et similiter dicit in VI Ethio. tiones eorum quae videntur secundum sensum. Manifestum est ludicium autem perfectum de re aliqua dari non potest, nisi igno-

^{(2) &}quot;loqui est a natura, sed loqui sic vel sic est ad placitum." St. Albert the Great, Quaestiones de Animalibus, p. 112, 60 (Vol. 12, Omnia Opera, ed. Cologne).

^{(1) &}quot;Mihil est enim aliud loqui ad alterum, quam conceptum mentis alteri manifestare." St. Thomas, S. T., I, q. 107, a. l. Cf. II, Sent. 11, part. 2, a. 3; De Veritate, q. 9, a. 4; I Cor. c. 13, l. 1.

⁽²⁾ According to the adage, operatio sequitur esse; what a language is "doing" at a given moment is consequent upon what it can do.

⁽³⁾ St. Albert, De Sensu et Sensato, tr. 1 (Vol. 9, Omnia Opera, Borgnet ed.).

^{(4) &}quot;Et sic ipsa formatio vocis est artificialis, prout est ad placitum diversorum quia propter diversos conceptus exprimendos diversae formantur voces." St. Albert, Q. De Animalibus, p. 112, 47-50 (Vol. 12, ed. Col.).

physical organs of sound production in order to express his thoughts, (1)

desires, and experiences to himself, and to transmit them to others.

户 1deo dicuntur non appetere appetitu animali manifestare runt signa signatis, sidut nec naturalia media ad finem, cut naturalia operantur propter finem. tu exercito quae a brutorum cognitione et appetitu aliena tione manifestationis in actu exercito est collatio in acmanifestationis actum nisi materialiter ; quoniam de rapetitur ab eis nisi executive. Hoc autem non est appetere nit eis manifestationis actus nisi executive, ideo non apbruths quo illis natum est convenire. Et quia non conveanimaliter : et quod manifestare eodem modo appetitur a per ly intendunt, respondetur quod intelligit appetere tia in litera intenta. Cum ergo dicitur, quid intelligit rum signa ad signata. Homines autem manifestant quae in ris autem naturae et instinctus eorum est conferre illobruta affectus suos manifestant executive tantum. quid significandum, nunc huic et tunc etc. Et propterea sis sunt, ut confera nt quod sit idoneum signum ad tale gnatis. Unde non eligunt ad significandum aliquid, magis rentia in proposito quod brutis convenit manifestare afgnato, et collatione eorundem, ut in litera dicitur, spectandum est quod inter bruta et rationalia haec est diffequin non assumeretur magis unum quam aliud signum ad siipsis sunt imperative et directive. Et haec est differenlibet illorum sigmum profertur sui affectus manifestatiunum signum quam aliud sed iuxta naturae instinctum quodfectus suos per signa ; sic quod non conferunt signa significandum tale quid. tationis rationem duobus extremis, scilloet signo et si-Et exigunt deinde collationem signi ad signatum. representare, de quibus est sermo, scilicet enuntiere, manifestare, et or lead), Cajetan goes on to illustrate the basic reason tiare, et similiter manifestantem, et repræssentantem. et signatum. why man can create language. "Non enim omnis anima colla-After showing that man can create new instruments because tiva est, sed rationalis tantum. Isti igitur actus animae imposes the right form on iron or steel and not on gold obtain and end, e.g. to make a knife that cuts well, man by his will he can choose the most fitting matter to Manifestant igitur bruta per signa affectus suos si-Homines autem per signa sic manifestant quae in ip-Nam oportet emuntiantem aliquo signo emunexigunt in primis hase duo, scilicet signum Concurrentibus autem ad manifes-Et quia non confe-Aucto-

As a practical test of the successful development of the means of expression, only success in transmitting ideas to others is capable of direct observation. The idea is transmitted if among the parts of the system of communication there is sufficient unity or coherence. Once the system becomes coherent, it reveals the quality of being a permanent institution, that is, an instrument which is supposed to suffice for an indefinite number of uses.

In spite of the fact that permanence is a quality of language, man normally does not create immediately a perfect instrument. When experience and knowledge are limited, and the understanding of ends and the variety of means is foreshortened, it is only by a process of trial and error that any invention can be developed to a high degree of efficiency. So too, it is true that, historically, language as an artifact has gone through various radical changes as man has grown in knowledge and has struggled to express this knowledge

formaliter sicut nec unquam possunt manifestare formaliter." Comm. In S. T., II-II, q. 110, a. 1 (ed. Leon.). Thus as regards animal language, it is used by, but not created by the individual animal; the individual can speak only the language given by the species. The individual human does not use a language imposed by the species, but he forges his instrument by living in community.

⁽¹⁾ Even in speaking about the analogical speech of angels, St. Thomas distinguishes between the actual expression of ideas (locutio) and the power of expressing them (virtus exprimendi dicitur lingua). Of. II Sent., d. 11, q. 2, a. 3. Language is opposed to the use of language in a way proportional to the distinction between a permanent habit and the intermittent operation which proceeds from it. This opposition, lost sight of in language research for several centuries after the Grammar of Port Royal, was reasserted by De Saussure in the terms langue-parole (Cf. op. cit., p. 112). The opposition langue-discours

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more and more effectively. By being improved, language has become more and more what it ought to be.

Since, in material things, organized complexity is a sign of (1)
greater perfection, language has had to reveal its own perfection
by developing a more coherently rationalized organization of the
elements of the system - both from the viewpoint of the imagination,
which is the appropriate instrument of representation, and from the
viewpoint of the physical organs of speech which are the appropriate
instruments of expression.

Two of the signs of the perfection of an instrument are its readiness for use, and the ease of automatic or unconscious operation that it provides. For example, a good dancer never thinks about his feet when dancing, for too much consciousness of these instruments would interfere with the perfection of his performance. So, too, it must not be assumed that one who can speak a language is thereby

equipped to reflect consciously upon, and delineate readily, the conditions required to make his speaking possible; for language is an extremely complicated affair which can achieve many effects readily and delicately.

Among these conditions of language the organization of the imagination is the most necessary, and perhaps the one that the average person is least conscious of. As has already been pointed out, the imagination cannot go beyond or transcend quantity. If then the imagination has a special role to fulfill in the nature and (1) functioning of language, quantity as a condition of the imagination is thereby a necessary condition in the construction of language as the instrument by which a person knows how to say what he already

⁽tongue-speech) proposed by Gustave Guillaume seems more satisfactory. (Cf. Roch Valin, Petite Introduction à la Psycho-mécanique du Langage, pp. 32-39).

⁽¹⁾ As Aristotle pointed out in III De Anima, c. 13, 135 a 11, no simple body can be a living bedrg. Material complexity is necessary for the existence of life. The complexity of matter is subservient to the power of the form. For more detailed discussion, cf. II De Caelo, c. 12, and St. Thomas, 1. 18. Also, S. T., I, q. 75, a. 5; II Sent., Q. de Animalibus, pp. 78-80 (ed. Col.); "Diversites organorum necessaria est animali. Huius ratio est, quia quanto forma est perfectior, tanto in plures potest operationes." Organized complexity is the sign of a more perfect, more powerful and yet simple form. Cf. also De Ver., q. 8, a. 3, ad 12; S. T., I, q. 17, a. 1.

 $[\]Xi$ apply the universal principle that quod ost in prius, servatur in posterius, then it becomes clear that the role of the imagination in human speech is not to be words involves an element of fiction; yet, since "fictio For Aristotle, vox est... "cum imaginatione aliqua" 420b organization of concepts to be expressed by gestures or verbi, quod dicitur verbum cordis; secundum autem quod conceptae interius... secundum quod ordinantur ab inful sounds uttered both by brutes and by man. But, if we si vero ad auditum, dicitur proprie locutio vocalis" (II Sent., d. 11, q. 2, a. 3). This adaption and rentibus, aptantur, et quodammodo ordinantur signis exterius apparentibus. si quidem sunt signa ad visum, dicuntur nutus; telligente ut manifestandae alteri, habent rationem intellect will control the imagination. neglected. imagination. by using, and submitting to, the conditions of the Poetria" (De Malo, q. 8, a. 3, obj. 10), the practical intellect can form the external sounds called words only quod est pertinet ad rationem ; fingere enim est repraesentare, (trans. Moerb.). rationis solius, ut dicit Fhilosophus in sua si quidem sunt signa ad visum, Indeed the creative activity of the practical Imagination is necessary for meaning-"Species ergo

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knows.

full value cannot be completely obvious at this point; the axiom of geometry concerning whole and part finds a contracted application in the relationship which exists between the whole of speech and the parts of speech. The need for the contracted application of quantity

is so great that when the grammarian begins to look for the genus and the differences by which to define nouns, verbs, adjectives, and so forth, he discovers that the genus is "part of speech".

A sentence, or a speech (oratio, in Latin) is the whole which is more known than any of its parts; too, it is a whole whose nature is clearly revealed by division. All grammatical analyses a table

proper starting pointing a whole, confusedly recognized, which can be known more clearly by dividing it into its parts. But the known

ledge of whole and part comes from the imagination and senses.

Furthermore, as already indicated above, the intellect must see all

the meanings of whole and part in the imagination according to a perfect or imperfect representation. Ultimately, the need for the

relation of whole and part is necessary not only for the grammatical analysis of language but also for the very development of language, prior to any scientific reflection on it.

a continuous whole exists prior to any of its individual constituent prior to any distinct part of speech. The order of being, by which a confused whole must exist prior to the independent actuality of parts, so too a sentence, a distinct knowledge of the whole. Historically, neither the noun analytically, from a distinct knowledge of the parts, we attain to any distinct part, is not to be refuted by the assertion that, it into distinct parts; so too for language bake only a piece of pie; he would bake a whole Both parts had to be preceded by the existence of a sentence which is impossible that either could have existed prior to the sentence nor the verb came first; since these parts of speech are parts, it first contained them confusedly. this point, one is in a position to realize that, "a complete sentence", existed historically No cook, for example, pie and then divide would ever just

Thus, the history of language may be reduced to its essential aspects by saying that man, in creating language, had to struggle from the very beginning to succeed in the manipulation of whole sentences which, only subsequently, could be analyzed into their proper parts. It is redundant to speak of "whole sentences", for

⁽¹⁾ Logicians during the Middle Ages pointed out that the grammarian had to define the noun and verb by beginning with pars crationis as the genus, if the grammarian manted to remain faithful to the method of defining proper to grammar. In logic, however, the noun and verb are defined with the expression vox significativa. c. 1, p. 12 b (Ed. Doyon).

⁽²⁾ This is to state the obvious since all first principles come to man's intellect from the senses. Cf. S. T. I-II, 51, 1, where this particular principle is used as an example of the doctrine of Aristotle contained in the final chapters of the Posterior Analytics.

Noun and verb had to congenerated in a manner similar to the congeneration of matter and form in the generation of a composite.

2. that of opposing consonants to vowels in order to contrast meaning and morphology (with syntax as an effect of morphology), as is characteristic of the Semitic languages; 3. or, that of contrasting, without immediate reference to the oral aspect of language, meaning to grammatical function in such a way that function must be subdivided into parts of speech having respective functions. This latter is peculiar to the Indo-European languages, and from this basic viewpoint, it may be said that they are all equally perfect in structure.

reflectively. Yet language exists before it can be analyzed reflectively. Yet language exists because men had to reflect on their experience and knowledge to some degree in order to construct a system of representation which would enable men to communicate. In other words, the history of the creation of language is the story of man acquiring experiences, thoughts, and desires about real things including himself and of his more or less adequate efforts in representing all of these. Philosophy, properly speaking, as well as logic can begin only when language has been sufficiently ordered to permit a consciously reflective knowledge and an expression of reflective knowledge. This last assertion is true because philosophy

^{(1) &}quot;Rationes consignificandi active, seu modi significandi activi, per se, et primo, ad grammaticam pertinent, tanquam principia considerata in Grammatica", Grammatica Speculativa, p. 2 b. "Grammaticus circa signa principaliter versatur, non propter res quae significantur, sed propter modum significandi quem ex se denotant..."

De Usuris (the famous spurious opusculum 73 formerly attributed to St. Thomas Aquinas), p.140 of Part 2 of Vol. 17 of the Roman Edition of the Omnia Opera, 1570, "Quaedam enim significant ut inhaerenter, non significantes substantiam, quantum ad modum significante substantiam quantum ad modum significare substantiam oun qualitate...", St. Thomas, I Sent., d. 9, q. 1, a. 2.

⁽²⁾ In the last one hundred years or so, linguists have been trying to classify and correlate languages according to certain recognized devices for changing the form and composition of words: inflection, agglutination and polysynthesis. Being more phonetic aspects of language than proper grammatical considerations, "they are closely related, and not always distinguishable" (Charlton Laird, op. cit., p. 132). The manner of dividing languages that is outlined here has been proposed by Gustave Guillaume, who seems to have discovered the proper grammatical or linguistic criteria for explaining mant is known to be the historical order in the development of the diverse sorts of languages. Most of his writing have not yet been published.

⁽¹⁾ For a brief exposé of Arabic as a model of the Semtic languages, see Roch Valin, op. cit., p. 52-54. The rest of this essay deals with an analysis that is more proper to Indo-European.

⁽²⁾ It is impossible to insist too much on the little known truth that what constitutes the unity of Indo-European and gives it its strength is the discovery of the parts of speech, in the proper sense of the word.

as a science implies certitude not only about what we know but also about the fact that we know what we know.

Before man can reflect on his knowledge of reality to assert that he knows with certitude, he must also reflect on his way of knowing to analyze the very conditions of his knowing and the very conditions of things as known. Before man can reflect on the logical conditions of knowledge, he must be able to analyze with a certain degree of clarity his instrument, language, which because

effect of man's unscientific grasp of eality, it exists prior to, and is a condition of, his attainment of science. The analyzing of speech is the only and proper starting point for the discovery of logic which alone makes it possible for man to possess scientific knowledge. Thus language and knowledge of language are conditions sine qua non of the human possession of science and wisdom.

The second objection is now answered: The nature of the naming process and of language is something non-temporal, though its exercise is temporal. Language is not the use of language; history will record its use. The grammarian attempts to discover the nature of language as revealed by its exercise. The logician accepts language as a starting point to discover the laws of thought that are canons of things as known.

^{(1) &}quot;We suppose ourselves to possess unqualified scientific knowledge of a thing, as opposed to knowing it in the accidental way in which the sophist knows, when we think that we know the cause on which the fact depends, as the cause of that fact and of no other, and, further, that the fact could not be other than it is."

Aristotle, Post. Anal., 71 b 8 - 12.

^{(2) &}quot;Huius autem sigmum est, quod huiusmodi sapientiae et distinguentes scientiae repertae sunt postea, quam omnes artes ad utilitatem existentes et omnes scientiae adminiculares ad instructionem iam fuerunt partae sive inventae, quoniam nisi artes civilitatem conservantes inventae fuissent, non fuisset habitum otium et libertas inquirendi, deficientibus necessariis vitae. Et nisi fuissent inventae scientiae adminiculantes ad instructionem, non fuisset habitus proprius inquirendi modus, et ideo illis non ante partis inutile fuisset schaltas studium et inquirendi investigatio."

St. Albert, In Libro Metaphysicorum Primo, p. 15, 59-70 (Vol. 17, Ed. Col.).

⁽¹⁾ St. Albert mentions explicitly that logic does not accept certain definitions from grammar, the preceeding science; cf. footnote (1), page 20. Note also that in the scientiae sermocinales, the sciences that deal with words: grammar, logic, rhetoric and poetics, grammar is the first to be studied and opposes the other three because it does not treat directly with the meanings of words but only with the way the meaning is conveyed.

Cf. St. Albert, In De Praedicabilibus, tr. 1, c. 4, p. 10 a-b (Ed. Doyon). From the viewpoint of the meaning of words, poetica est intima doctrina; cf. St. Thomas, S. T., I, q. 1, a. 9, obj. 1. Though the spurious opusculum De Usuris (cf. footnote (1), page 22) asserts that logicum nominamus qui de sermonibus et signis qualitercumque considerat, it does not seem clear that St. Thomas intended to include grammar in his expression scientiae logicales in his Expositio in Metaphysicorum, nos 32, 57. Nevertheless the Greek source of logicalis may be translated by sermocinalis.

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reason but not the use of reason and consequently the logic of not a weakness of logic but rather of the language system system where the parts of speech are explicitly developed; development. Aristotelean logic can be applied only in a language Aristotle is not applicable to his inadequate state of intellectual form. As an analogy, it might be noted that an infant possesses is due to an extreme vagueness regarding the parts of speech so that the Chinese language cannot properly present an argument in syllogistic being coherent, it works more or less well according to the degree incompatibility between the Chinese language and Aristotelean legic developing this point extensively could it be shown that the to which the mode of signifying is explicitly developed. Only of signifying or expressing knowledge, for the simple reason that, from the grammarian. A particular language is an actualized means of logic as a science, it is easy to see what the logician accepts proper interest to the grammarian and the logician. Once it is observed that language has to be analyzed prior to the very existence Thus it is seen how language goes beyond history and is this ဝှ

The grammarian, knowing that his own science of grammar has limitations, can analyze this or that particular language in the light of proper principles intrinsic to the mode of signifying; he can provide proper definitions of such things as noun and werb and can give a limited number of demonstrations regarding their proper passions, e.g. the grammarian can show from the proper definition of a substantive noun that it possesses as a proper passion the ability to be modified by an adjective. The logician, on the contrary, can

proper to the mode of signifying in the light of principles that are proper to the mode of knowing. Another way of stating this contrast is as follows: the grammarian analyzes the relationships between words insofar as words involve an arbitrary and artificial union between the vocal sign and what it signifies; the logician is interested in the relationships which exist between words as signs of the necessary relationships between ideas; he uses words to discover these relationships. Because of a relationship of cause and effect, the logician can reason from the effect in language to a sufficient and necessary cause in knowing. The grammarian himself cannot analyse language as an effect; consequently, the mode of knowing as a cause of language is not a proper interest to him.

As a corollary to this discussion, it can be seen that logic is independent of grammar in the way that a cause is independent of its effect; logic is prior in the order of being. Further, in the way that grammar is dependent upon logic, logic itself is dependent on the mode of being; that is, in as much as it is subsequent to the mode of being, the mode of knowing is related as effect to cause. Once again, it is seen that, since the mode of knowing is an effect, its adequate analysis is a necessary preliminary step to the philosophical analysis of reality. But the philosophical analysis of reality the theoretical sciences which are

^{(1) &}quot;Omnis virtus signi est ex virtute significati secundum quod hulusmodi". St. Albert, <u>De Sacramentis</u>, p. 163, 91 (Vol. 26, Ed. Col.).

^{(2) &}quot;Modus significandi sequitur modum intelligendi". Cf. footnote (1), page 3.

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OH APTER TWO

PLACING THE PROBLEM OF THE WORD MODUS

stream of language which had preceded him his works cannot be divorced from the stream of thought and the of the implications of some of its uses, which were employed up to ful study of its earliest usages. frequency of its appearance is sufficient reason to justify a carephilosophy find themselves constrained to use it constantly. perhaps the English and French equivalents are still greater mysteries. the time of St. Nevertheless it is an extremely opportune word, and those who study In certain philosophical problems, its very vagueness leads to abuse. The Latin word modus seems to be a rather nebulous term; Thomas Aquinas. As to be expected, its occurence This thesis presents an evaluation The

Several passages from St. Augustine, St. Albert, St. Thomas, as well as from a few modern writers need to be presented in order to focus the attention of the reader sharply on the variety of philosophical problems implied by this word.

First should be noted the brief definition of modus which is found in the scarcely doubtful opusculum De Propositionibus Moda-

Quia propositio modalis a modo dicitur, ad sciendum quid sit propositio modalis, oportet prius scire quid sit modus. Est autem determinatio ad-

jacens rei... (1)

This definition, literally translated as "a determination which lies next to a thing", seems to be simple and straight forward; but it does not reveal the clear, vivid meaning and sentiments which would have been felt by one whose mother tongue was Latin as spoken in the time of Plautus or Cicero.

What does this brief definition seemingly have to do with the fifth question asked in the Prologue of the Scriptum Super Sententils Magistri Petri Lombardi: utrum modus procedendi sit artificialis, and the answer of St. Thomas Aquinas, which begins with this observation: modus cujusque scientiae debet inquiri secundum conditiones materiae.

Even though the word was used extensively in the era of pagan Latin, it cannot be overlooked that one of the most important influences which intensified its use in the works of Christian writers was the following passage in the Old Testament (Book of Wisdom, XI, 21):

⁽¹⁾ Listed by Père Mandonnet, O.P., as an opusculum vix dubium in his collection Opuscula Omnia, vol. IV, pp. 505-507. Vernon J. Bourke, Thomistic Bibliography 1920-1940, p. 9, accepts it as authentic and lists it first in the chronological list of St. Thomas' works with the date; 1244-45? However, in the 1962 French edition of Saint Thomas d'Aquin, Angelus Walz, O.P., places it as late as 1272-73. I have never seen the critical edition by Bochenski, O.P., published in 1945.

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Sed et sine his uno spiritu poterant occidi, persecutionem passi ab ipsis factis suis, et dispersi per spiritum virtutis tuae, sed omnia in mensura, et numero, et pondere disposuisti.

In commenting on this passage, St. Augustine explained the triology of mensura, numerus and pondus by the three words modus, species and ordo, along with the trinity of verbs terminare, formare and ordinare. In doing so, he established a way of speaking that was extensively discussed throughout the Middle Ages.

Secundum id varo, quod mensura omni rei modum praefigit, et numerus omni rei speciem praebet, et pondus omnem rem ad quietem ac stabilitatem trahit,
ille primitus et veraciter et singulariter ista est,
qui terminat omnia, et format omnia et ordinat omnia. (1)

Discussing the question of how traces of the Trinity are found in creatures, Peter Lombard replaced the word modus by unitas:

Hase snim quas arts divina facta sunt, et unitatem quamdam in se ostendunt, et speciem, et ordinem. (2)

In passing, it may be noted that here may exist the possible source for a difficult statement made in the second objection of the sixth article of De Veritate and accepted by St. Thomas as true in the response: ratio unius consistit in mode, the notion of unity consists in mode.

In explaining the traces of the Trinity, St. Thomas himself tells us that the word mensura pertains to the terminationem principiorum sub esse creati . . ; ita quod in ista terminatione sumatur et terminatio in esse et in operari et in omnibus aliis...

In this context the notion of mensura is included in the notion of modus, which pertains to the principia determinata sub esse principlati... Further on St. Thomas notes that the notion of modus itself is implied in the notion of unity which pertains ad suam determinationem prout ex principiis constituta est...

At this point, it is not implied that these passages are easy to understand; rather these few citations show that even in his earliest writings St. Thomas accepted centuries of tradition in his acceptance and use of the word modus. Writing his Summa Theologiae later in his career, St. Thomas maintained the word with equal consistency and gravity. It is impossible to speak of creaturely goodness without using the word modus:

Dicendum quod unumquodque dicitur bonum, inquantum est perfectum; sic enim est appetibile, ut supra dictum est. Perfectum autem dicitur, cui nihil deest secundum modum suae perfectionis. Cum autem unumquodque sit id quod est, per suam formam; forma autem praesupponit quaedam, et quaedam ad ipsem ex necessitate consequuntur: ad hoc quod aliquid sit perfectum et bonum, necesse est quod formam habeat, et ea, quae consequuntur ad ipsam. Praesugitur autem ad formam determinatio sive commensuratio principiorum, seu materialium, seu efficientium ipsam: hoc significatur per modum, unde dicitur quod mensura modum praefigit. (2)

(2)

⁽¹⁾ St. Augustine, IV de Genesi ad literam, c. 3, n. 7. Omnia Opera, Vol. 7, p. 113 (Ed. Firmin-Didot).

⁽²⁾ Found in the text of Herre Lombard, Dist. 3 of Book One of the Sentences, heading St. Thomas' Commentary, p. 45, Vol. 9 (sec. Ed. Ven.).

St. Thomas, I Sent., d. 3, q. 2, a. 2

S. T., I, q. 5, a. 5. Cf. De Ver., q. 21, a. 6

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One might ask how much the meaning of the word modus has been affected by its long association with a particularly theological tradition. What justifies the tradition? Was it a mere whim, a supernatural theological reason, or the normal, natural meaning of the words used that enabled St. Augustine to equate mensura to modus

cannot assume that they have been properly comprehended that in the texts cited above modus is transliterated by 'mode', one is related to the notions of 'measure' and 'unity'. To the degree None of these three synonyms is of great help in showing why modus consequently, it implies the way of attaining a destination root as the Latin verb vehor, vehi vectus sum, particular way of making something; 'way' is derived from the same using one's hands; 'fashion' comes from facere, consequently a derived ultimately from manus, consequently a characteristic way as a synonym with 'manner', 'fashion', and 'way'. cause the literary borrowing is colorless. literating it into English or French by the word mode is futile, be-(or French) is meaningless except to the degree that it is associated The effort to justify the use of the word modus by trans-The English word and the noun via; i Manner ' is

It is proposed in this thesis that all the intellectual light needed for these passages can be obtained by translating the word modus with the English word 'size'. This word 'size' is pregnant with meaning for the English mind because it is a word that belongs to every phase of speech including even childhood vocabulary. It contains all the notions nedessary to justify the equation of meansura. Size implies measure.

However, there are other passages which seem less apt to allow the translation of modus by 'size'. What does St. Thomas mean when he writes:

aliquid dicitur modificari aliquo dupliciter. vel formaliter, et sic res dicitur modificari suo modo, qui in iosa est. Vel effective et sic omnia modificantur ab eo qui modon rebus imponit; et hinc est quod Deus dicitur effective, modus omnium rerum. (1)

Again, the word modus sometimes refers to the circumstances of the human act in general and at other times to some circumstances in particular. In the following passage, St. Thomas speaks of a proper and non-proper acceptation of the word:

Dicendum quod modus rei est in ipsa re consequens substantiam ejus. Et quia quaedam circumstantiae sumuntur ab eo quod est extra rem, quaedam vero ab ipsa specie actus - quae duo ad modum non pertinent - ideo in modo non includitur omnia alia circumstantia, si modus proprie accipiatur. (2)

Even for these texts it is maintained that the meaning intended by St. Thomas can be accurately and clearly understood only by a proper understanding of an analogy implied by the English word 'size'. The fact that the analogical meaning of 'size' has remained relatively unexploited has given rise to much unjustifiable mystery about the texts of St. Thomas. Yet, because it may be difficult to appreciate the possibility of an analogy, it must not be assumed that an analogy

⁽¹⁾ I Sent., d. 3, q. 2, a. 3, ad 3

⁽²⁾ IV Sent., d. 16, q. 3, a. 1, sol. 2, ad 4.

did not exist and was not utilized by the Latin people with the word modus.

Though both men admitted that the word modus implied mensura, St. Thomas and St. Albert could rationalize certain uses in different ways. In considering the virtue of modesty and the reason for its name, the two doctors assign the denomination from different viewpoints. On the one hand, St. Thomas explains:

Dicendum quod nomen commune quandoque appropriatur his quae sunt infima, sicut nomen commune angelorum appropriatur infimo ordini angelorum. Ita etiam et modus, qui communiter observatur in qualibet virtue, appropriatur specialiter virtuti quae in minimis modum ponit. (1)

The name of the genus is reserved for the lowest species when its meaning is relatively imperfect in comparison with the names of the higher species. So according to this, it must be assumed that the word modus contains some imperfection which allows it to name the inferior species of temperance. On the other hand, for St. Albert the word modus seems to designate that which constitutes temperance itself.

Sed quarto modo [modus] dicit modificationem eius quod difficillimum est modificare, et ibi habet rationem specialis virtutis. Omnis enim virtus habet determinari a difficillimo suae materiae sicut fortitudo a periculo mortis. Unde sic modus singulariter covenit temperantiae, et a difficultate ultima, scilicet modificandi in delectabilibus,

temperantia habet rationem virtutis, quia virtus est ultimum potentiae in re, cuius est virtus... (1)

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Are these positions contradictory, or is there some way of conciliating these two explanations ?

Another problem which involves the word modus is that concerning the nature of the modal distinction. Most modern textbooks written ad mentem Sancti Thomae fail to give any satisfactory reason for the word modalis. Even a rapid reading of such an article as Suarez, Historian and Critic of the Modal Distinction Between Essential Being (2) and Existential Being, gives the impression that if greater pains had been taken to distinguish more carefully the various meanings of the word modus, the relationship and distinction between essence and existence might have been more easily grasped during the centuries that have elapsed since the time of St. Thomas.

One Dominican noted this need for a study of the word itself :

Despite the importance of modes in speculative thought and the validity of their existence, there still remains to be set forth by scholastic philosophy a universally accepted treatment of their nature and origin. (3)

⁽¹⁾ S. T., II-II, q. 160, a. 1, ad 1.

⁽¹⁾ St. Albert, De Bono, p. 119, 28-36 (Vol. 28, Ed. Col.).

⁽²⁾ By Norman J. Well, The New Scholasticism, Vol. 36, 4 (1962), pp. 419-444.

⁽³⁾ Robert Reginald Masterson, O.P., "Sacramental Graces: Modes of Sanctifying Grace", The Thomist, Vol. 18 (1955), p. 333.

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With this remark, it can be seen that Father Masterson judges even the chapter on modes written by the famous Père Hugon as inadequate. He further maintains that

in part the lack of such a doctrine... has impeded the development and evolution of any clear exposition regarding the influence of sacramental causality on the ensuing effect.... (2)

Because of the limits of his own thesis, the author of Sacramental Graces: Modes of Sanctifying Grace does not present an exhaustive treatment of modality. He merely proposes an exposition hoped to be "adequate to render acceptable the solution" which he proposes. From a series of various texts he synthesizes the following explanation:

A mode is a determination of a form, which determination implies a transcendental relation to its extrinsic causes, namely material and efficient, and though the mode is identified with the thing it modifies, it is formally distinct. (3)

Mo initial attempt was made by Father Masterson to decide if the

word had various impositions; as such, his method of attaining the to delimit an analogical term, there was no statement of the proper above definition is inaccurate, that is to say, unscientific. presentation. ಕ a proper or common notion ? question of the prior and posterior meanings. primarily a question of the meanings of one word and is always notion and of the other derivative meanings. though he acknowledges the all important fact that he was attempting of real or rational relationships, and relativa secundum esse et "transcendental relations". in the works of St. Thomas cannot be explained by speaking advanced here that certain analogical uses of the word modus as found By anticipating the solution presented in this thesis, it can be way of speaking definitively accepted by John of St. Thomas jeopardizes the clarity of St. Thomas thought by using a non-Thomistic Furthermore, by using the expression 'transcendental relation', he distinguished the proper from the common ? Because of this neglect distinguish, his theological discussion lacks a proper logical Only his faith in the If neither, what is it ? What Distinctions must be made on the basis texts of St. For analogy is Is the above definition Thomas saves him. Hyen

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⁽¹⁾ Eduard Hugon, O.P., Cursus Philosophiae Thomisticae, Vol. III, Metaphysica, De Accidente modali, p. 543-548. Even Thomas Harper, S.J., The Metaphysics of the School, Vol. I, pp. 70-73, Vol. II, 725-729, did not realize the importance of retracing the meaning of the word modus. Assuming that everything knew the meaning of the word, he goes on to analysis the reality involved. This work first published in 1888 was reprinted: New York, Peter Smith, 1940.

^{(2) ·} Masterson, Ibid.

⁽³⁾ Ibid., p. 342.

^{(1) &}quot;Quando aliquid dicitur analogice de multis, illud invenitur secundum propriam rationem in uno eorum tantum, a quo alia denominantur. S. T., I, q. 16, a. 6.

⁽²⁾ The principal contentions held by A. Krempel, La Doctrine de la Relation chez Saint Thomas, seem valid. They indicate one of the main weaknesses of John of Saint Thomas, who often asserts as univocal words which are analogical, e.g. signur.

The doctrine of modus penetrates the thought of St. Thomas so thoroughly that even texts wherein the word itself does not appear must be subject to close logical analysis before their proper interpretation is assured. The following text, which does not used the word, is essential to any discussion of the modal nature of grace:

Dicendum quod ratio sacramentalis gratiae se habet ad gratian communiter dictam sicut ratio speciei ad genus. Unde sicut non aequivoce dictur animal communiter dictum et pro homine sumptum, ita non aequivoce dicitur gratia communiter sumpta et gratia sacramentalis. (1)

Masterson's has brought modus into current philosophical and theological literature in relation to the works of St. Thomas. In an article "Created Personality", the Dominican, Father Mulaney, tries to harmonize the position of Capreolus on personality with that of Cajetan who utilizes the term modus. Since he has space only for an abbreviated study of modus, his lack of proper logical procedure in dealing with the analogy of the term endangers the truth of the solution that he presents concerning the explanation of personality as a mode and the analogy of personality between God creatures.

In reply, the Jesuit, Father Reichman published "The Created (1)

Person". He criticizes Father Mulaney's synthesis and denies the identity of the two positions and, in doing so, claims that Cajetan has introduced an alien notion of modus into the discussion of personality. However, not realizing the need for correct logical procedure, Father Reichmanndoes not take sufficient pains to clarify the meaning of modus nor to determine if a doctrine of modus might be implicit in certain problems without the word itself actually appearing in context; too he does not question the expression 'transcendental relation':

In neither St. Thomas nor Capreolus is there any evidence that in writing on the problem of created person the terms "mode" or "transcendental relation" were used. (2)

This rapid survey of a few texts from St. Thomas and of several problems which the great commentators and certain modern Thomasts have tried to solve in the light of some remarks on modus by St. Thomas reveals that his doctrine is not so clear as might be first assumed from a casual reading of the more important texts.

Wherein lies the greatest difficulty in discovering his thought? It should now be evident that the principal defect made in most of the recent studies lies in the general lack of organization of the various meanings of the word modus according to an order of the first and most known sense in the Latin language.

⁽¹⁾ S. T., III, q. 62, a. 2, ad 3.

⁽²⁾ Thomas U. Millaney, O.P., "Greated Personality", The New Scholasticism, Vol. 29, (1955), p. 369-403.

⁽¹⁾ James B. Reichmann, S.J., "The Created Person", The New Scholasticism, Vol. 33 (1959), p. 1-31, p. 202-230.

⁽²⁾ Ibid., p. 228.

notion used univocally. And even in the case where the same name names, such as 'animal' and 'man', the two words have each a proper In the case where the genus and species are designated by different

not be confused with the community of the genus the genus is known first. the genus and 'animal' the inferior species, the proper notion of is reserved for the genus and one of the species, such as Yet the proper notion of the genus must 'animal'

assumed to be univocal. impositions that is important; until it is recognized, a word is of a genus) is to observe its discord with an already known proper only way to recognize the common notion (which is not the community impositions may be seen to decline from this starting point. notion has to be distinguished first, and then various other the passage from the common to the proper does not apply. 9 It is the element of discord between the first and second the contrary, when one word, such as arg is analogical, The proper The

St. Albert, following the strong comments of Boethius, interprets dam dicuntur. principal example : Qualitatem autem dico, secundum quam quales quiof the chapter on Qualities in Aristotle's Categories are the does not necessarily imply an analogical term. does most of the time, the Latin expression At this juncture, it is worth noting that, even though it Est autem qualitas, eorum quae multipliciter dicuntur. multipliciter dicitur The opening lines

> into four species, and not two in this context because the genus of quality is immediately divided the expression as referring to a univocal term. The problem arises

per alterum participat qualitatis praedicationem, et genus, quod per diversas differentias in ea dividitum ter, ut acquivocum, vel analogum quod per prius et pitur ut praedicamentum, de numero eorum quae multituor genera vel species qualitatis, quorum nullum ab ipso, et non unum per aliud. quae sunt sub ipso aequaliter, ita quod aeque exeunt posterius dicitur, sed est multipliciter dictum ut pliciter dicuntur. Est autem qualitas secundum quod sic in communi acciideo species qualitatis ab hoc communi quod est qualitas exeunt ut multitudo. Non autem sic dicitur multiplici-(1) Sic enim sunt qua-

This passage is important because elsewhere the word qualitas can be used analogically; in which case this term covers only the first, ter dictum in both senses of the word : first, each of the four third and fourth species of quality. The word quality is multiplici-

 $[\]Xi$ Note also Boetius: "Proponit qualitatem multipliciter dici, quae res traxit aliquos in errorem, ut eis suspicio nasceretur Aristotelem credere qualitatem aequivoco St. Albert, Comm. in Praedicamenta, tr. 5, 142 a-b (Ed. Doyon). etiam in his nominibus quae veluti genera de speciebus citer praedicatur. Et communis est multiplex appellatio, voce dicitur, et diverso modo de suis speciebus multipli-Dicitur emim aliquid multiplicater dici, cum et aequiciter dici, esse non una tantum significatione nominari. qualitatis aequivocum est. multiplicater appellatur, secundum Aristotelem nomen tur, qualitas autem secundum Aristotelem ipsa quoque nominari. multipliciter dicitur. aequivocationem retulisse Aristotelem, sed potius ut quaanimali subjectae sunt, ipsum quoque multipliciter quodicuntur, velut aequivoca de subjectis. ait, et una quidem species qualitatis habitus affectioque dicitur." In Categorias Aristotelis, Liber III, col litatem genus esse proponeret, illa res monstrat, quod dammodo nominatur. Nam si omnis aequivocatio multipliciter dici-Patrologiae Cursus Completus, Paris, Migne Istam autem multiplicationem, non ad Nam si multae sint species quae Nos vero defendimus multipli-Namque et animal <u>.</u>

intellect itself the senses and the intellect and the order which exists within the in the order of knowledge, both in the order which exists between The precedence or priority according to notion indicates a priority another both according to the notion and according to reality, analogical or proportional parts of a division, one always precedes one may precede the other in reality; on the other hand, in the univocal division are coequal according to the notion of the genus, use of terms. This enables us to state a fundamental law of the proportional According to St. Thomas, although the parts of a

mrites: on St. Thomas' delineation of quality as a mode of substance, discover the proper order among the various meanings. Father Guy Picard, S.J., has approached the word by attempting to Among the present day-writers who have discussed modus, only In commenting

roi). mesure à son tour mesurée par autre chose; "quem mensura praefigit". (1) convention, par la nature... plus loin, qu'il se soit rendu compte que cette mesure était elle-même mesurée par une loi positive, par une premier, paraît désigner la mesure elle-même, une mesure concrète, un étalon matériel (v.g. le pied-deque la mesure prédétermine". "mensura omni rei modum praefigit". Cette définition du mode est tirée de saint Augustin "mensura omni rei modum praefigit". Elle n'est pas facile a traduire. Il semble donc que saint Augustin soit alle Nous dirions : "le mode, c'est ce Le mot mode, Bref, le mode est une au sens

Language. of a word, he has recognized that, before determining the more abstract usage the order of usage which this word actually underwent. Father Picard is mistaken, as shall be seen, it is important to trace its basic usage in common in his conjecture on Mevertheless,

day Latin meaning are charged with danger because the word, extremely vague to us, constantly offers promise of great depth of meaning study of the history of the word modus has been made and understood many which will continue to be discussed futilely until an accurate The danger can be surmounted only when we justify this vagueness All attempts to use this word without a comprehension of its every-The problems cited in this chapter are only a few of the

E logiam;" see Lib. In beginning his commentary on the word quale in the Metaphysics (1020a 33), St. Albert notes: "Quale igitur hoc modo communi sumptum dicitur multipliciter per analogiam; see Lib. 5, tr. 3, c. 6, p. 264-266; also the commentary of St. Thomas, lect. 16.

⁽S) Cf. S. T., I-II, 61, 1, ad 1; 2 Sent., d. 42, 1, 3, 3 Sent., d. 33, q. 2, a. 1; q. 1, ad 2; De Malo, q. 3 Sen ?, <u>1</u>,

⁹ Ouy Picard, S.J., "Puissance Naturelle et Qualité Passible", Sciences Ecclésiastiques, Vol. 9, (1957), p. 129-

(1) arising from a solid core of meaning.

(1) "A terminology is useful exactly because it is fluid at the edges, no less than because its centre is clear and definite." (italics in the original text). This interesting observation by a modern author reviewing the history of Analytical Philosophy states precisely the value and necessity of the analogical or proportional use of words. Cf. "Analytical Philosophy" by Dr. John Holloway, p. 35, in The New Outline of Modern Knowledge, edited by Alan Pryce-Jones. London, Victor Gollancz Itd. 1956.

CHAPTER THREE

ON THE HISTORY OF THE WORD MODUS

1. - Glancing at a few dictionaries

A rapid glance at a few of the available Latin-English dictionaries will reveal the vagaries encountered. Scanlon and Scanlon in their Second Latin, which is an introduction to philosophical and theological texts, give only the word 'manner' as a translation of modus. This sort of dictionary is too brief to be useful...

or due measure', 'bounds' or 'limit'. Consequent upon these 'rhythm', 2. 'quantity'. meanings, the word can of postry. 'melody', 'strains' of music; the 'measure', 'meter', or 'verses' notion of : 1. anything is measured. hence its first proper meaning is a 'measure' or 'standard' by which metiri. word is probably akin to the Sanskit root *MA-, which signifies 'sort' or 'kind' John T. White in his Latin Dictionary states that the Latin For him, it refers immediately to the 'measuring thing'; 'time', Finally, it has the sense of 'moderation', a 'proper 'measurement', 'extent' and 'size'; as well as In its application the word can refer to the 'quantity' of words; the 'notes', 'tunes', The second meaning by metonomy includes the also signify a 'way', 'manner', 'method'; (2)

Cora Carroll Scanlon and Charles L. Scanlon, Second Latin p. 254.
 John T. White, A Complete Latin-English and English-Latin Dictionary, p. 384.

secondary usages need not detain us here of the initial meaning of the word ? signification only by metonomy ? Does Harper give a truer picture Is this interpretation superior to that of White where 'size' is the word modus, distinction ; the 'measure of' and 'the size of' the things measured with which, or according to which, any thing is measured! root *MED -. Latin-French Lexicon in three volumes), it correctly recognizes the translation of Freund's Latin-German Lexicon (the source of Theil's reference work. (1)
Harper's Latin Dictionary is an older but still standard It goes on to assign to it the meaning as a 'measure the dictionary gives two first meanings without Edited by Lewis and Short and based upon Andrew's His listing of all the As for

In the old edition of the famous Latin Lexicon by Forcellini, the word modus was stated to be a nomen latentis originis. Following his personal opinion that the word modus might come from the Greek word ô666, 'way or road', Forcellini gives the four following principal senses:

1) Modus proprie et universim est ratio, via, forma, qua fit aliquid; modo, maniera, foggia, guisa.

2) Modus est etiam mensura, quantitas; misura, quantità; qui sensus a quibusdam primarius putatur.

3) Modus est item finis, tarminus, intra quem si consistas, mediocritas servatur; termine, fine, regola, mediocrità, moderazione.

th) Modus vei modi verborum apud Grammaticos sunt diversae eorum inclinationes, per quae varios animi affectus significamus, ut indicativus, imperativus, optativus, etc... (1)

In this work, the meanings of measure and quantity are put in second place even though the Renaissance Latin scholar has taken pains to mention that others disagree with him. It is curious to observe that the vaguest meaning of the word has been put in first place. Forcellini would not have been conjectured such an etymology if he had known that the rough aspirate in Greek is frequently the remnant of an initial sigma that has been lost. Actually the Greek word obosc comes from a root, *SED-. Modern linguists know also that, if a word is common to Latin and Greek, the initial me is conserved in both languages, e.g. mater - wfrmp.

In the edition of 1741 the following sentence is added: "Scaliger censet esse a µ£50µα; curo." Modern linguistics knows that there is a relation between the two words, but the Latin word does not come from the Greek word. Cf. Liddell and Scott, A Greek-English Lexicon, (9th Ed.), under µ£6ω.

<u>(</u>

⁽¹⁾ Charlton T. Lewis and Charles Short, A New Latin Dictionary: Harper's Latin Dictionary, p. 1156.

⁽¹⁾ Aegidius Forcellimus, Totius Latinitatis Lexicon (Ed. 1875), T. IV, p. 154-155.

⁽²⁾ Another famous early dictionary gives us the translation of modus in eight languages: Calepinus, Dictionarium octolingue, Vol. II, p. 70a: "Modus, di, Temperatio, medidentitas, ratio. 77 derech, Pirchok, mamadh 72/2/2 middath 17/2 prov. Fal. moyen, manière, & façon, mesure, règle, fin. Ital. Modo, misura, regola. Germ. Mass. Hisp. Manera, medida. Angl. a maner, fachion or mesure."

non-existent : one can readily believe that the foundation for the division is three and a half columns to a synopsis, the citations are arranged according to five major significations which overlap so much that The most discouraging of dictionaries is the untidy Lexicon Thomas. Though it is true that the editors have devoted

22 measure, quantity

a way, manner, method, according to which something is or happens, synonym of ratio and pro-

<u>+</u> w (w scientific manner or method, scientific procedure, modus sciendi seu procedendi, see under 1, synonym of processus, ratio, and via.

Mood or mode in the grammatical sense, e.g., a

5 manner in the realm of logic. (1)

synonyms in section one should have been made between 'measure' and 'quantity', listed if any degree of genuine clarity is to be had, some distinction that the editors would have thought of the word 'size'. Finally, measure', 'moderation' and 'capacity'. ways that it can readily be translated by 'limit', 'bounds', section four. scientific procedure. the word 'mode' merely to a grammatical sense, as suggested in three and five since it pertains to the realm of logic to teach It is hard to perceive any profound differences between sections Furthermore, St. Thomas uses the word modus in such Certainly in English it is wrong to restrict It is out of the question enp

modus. , 16 will be sufficient to show that the same difficulty is presented meanings : 1. mesure de surface; 2. mesure à ne pas dépasser, modégive any consideration to the etymologies of words. because it maintains as one of its basic principles the refusal to equivocation that is at the very roots of the mystery of the word But even here perhaps the first meaning cited maintains the hidden from its Latin source modus, stating that the latter has four no value in trying to arrive at a meaning of the word mode primarily Lalande, Vocabulaire technique et critique de la philosophie is of ration; 3. manière de se conduire; 4. manière, Dictionnaire de la langue philosophique derives the French mode "mesure [avec quoi on mesure quelque chose]". French students. étendue, Citing one Latin-French dictionary, that of Felix Gaffiot, dimension". In this book, the first meaning assigned is The famous French dictionary by André The second is "mesufaçon de faire Paul Foulquié's

ş to this point, reference has been only to that sort of

^(£) R. J. Deferrari, Sister M. Inviolata Barry, Ignatius McGuiness, A Lexicon of St. Thomas Aquinas, III, 696 sq. St. Thomas employs mineteen derivates from modus besides

E Felix Gaffiot, comparison). (1934), p. 987. Dictionnaire illustré latin-français (The new edition was not available for

⁽S) André Lalande, Vocabulaire technique et critique de la phi-losophie. Cf. its introduction as well as the introduction of the work given in the next reference.

⁽H) Paul Foulquie (with the collaboration of Raymond Saint-Jean), Dictionnaire de la Langue philosophique, p. 445. This author does not list the TIL in his bibliography; hence he seems to neglect its extreme importance.

 2

dictionary that there is found an adequate treatment of the research on modus appeared in 1958. fascicle was published in 1900 and whose latest fascicle containing Indo-European is the Thesaurus Linguae Latinae, whose first Another dictionary which puts to admirable use the knowledge employed in philosophy are constantly derived from sensible reality. this dictionary illustrates mervelously how the names ly without a special initiation should not be a deterrent, search made available by such specialized intellectual instruments Meillet. as the Dictionnaire étymologique de la langue latine by Ernout and this thesis tries to make clear, must be paid to the scholarly reof the ordinary intellectual tools at hand. Greater attention, this particular starting point has been to reveal the inadequacies an average American or Canadian college. dictionary which may be consulted by the student of philosophy in The fact that this sort of work cannot be read intelligent-It is only in this latter The purpose of choosing and terms for

> may be the explanation of the equivocation found in so many dictionaries, including even that of Ernout and Meillet

simple and elementary, and so vast and complicated, that, unless one the possibility of correctly organizing the many senses is slight. grasps the elements essential to distinguish the different senses, The use of modus in Latin and size in English is at once

it never needs to be carefully defined; in fact, it is strange that Neither its simplicity nor its complicated usage seems who use it are never at a loss to know what they are talking about the word is used in a large variety of situations and yet those speaking person the meaning of 'size' is so obvious that in his eyes situation seems to have been true for the Latin word modus the certitude and precision with which it is used, It can safely be assumed here that for the average English A similar to endanger

a systematic outline of the mass of valuable evidence by the TIL definita, render any easier the organization of the impositions that are of misinterpretation. best illustrate the various meanings can be used with less danger is imperative; then, for the rest of the thesis, quotations which measuring.' The first definition given by the TIL is the extension of something as Before an analysis of this definition can be presented, The abundance of the source material completely known extensio metiendo does not

modern, contain such a term. I The lacuna left in these languages French, Italian, or Spanish; nor does Greek, either classical or

placed on

object measured.

classical and silver Latin. What is important is the fact that the first meaning does not refer to the measure, but rather to

long) of citations bearing on the usage of this word in early, survey covers nearly seventeen columns (each eighty-five lines historical order of the first meaning of modus. Its scholarly

adequately rendered by the English word size. Emphasis must be

This first meaning, it seems, can only

the absence of any precise synonym of size in German,

E date. Thesaurus Linguae Latinae, It will be referred to by me by the editors The proofs of the section on modus were kindly sent to of TLL before the norman publication the letters III. Vol. 8, Fasc. 8, p. 1252-1280

meanings of word in approaching the subject of his science satisfy the need's of the metaphysician when he scrutimizes the important to philosophy; nevertheless an attempt can be made δ

Outline of the Meanings of Modus

Caput Prius : idem quod mensura

sensu strictiore idem quod extensio metiendo definita (non ubique certe distinguitur a sensu latiore.) proprie de locorum vel corporum spatiis ;

respicitur potius notio extensionis: de spatiis porrectis :

pertinet ad areas :

de agris, terris. de caeli spatiis, sideribus.

H pertinet ad longitudines ; variarum rerum. specialiter de distincta. generatim.

pertinet ad res, quae vasis mensurantur; potius idem quod finis.

ad liquores (interdum fere idem quod quantitas). ad frumenta.

sis sive pondere mensuratis. in praeceptis medicorum de quantitate specierum siver liquidarum sive aridarum, sive va-

respicitur potius notio definiendi mensuram fere idem quod circumscriptio quantitatis, quae mensurantur: generaliter.

speciatim :

ö

pertinet ad spatia porrecta;

pertinet ad ambitum rerum et longarum et altarum :

pertinet ad longitudines. pertinet ad areas : de agris

HH) pertinet ad liquores.

sando mensuratur. pertinet ad res, quae vel vasis vel pen-

2

Translate de spatiis cogitatis (interdum vergit ad sensum latiorem) : pertinet ad rationes artis musicae :

de vocum modulatione idem quod μέλος distinguitur a notione rhythmi). tonorum constitutionibus. (non ubique certe

de tonorum intervallis.

It is not to be forgotten that Book Five of the Metaphysics is a necessary part of the approach to the subject of Metaphysics which is not properly reached until Book Eight.

£

pertinet ad tempus:

de certis temporis intervallis identidem voce vel motu notatis :

in poesi et arte rhetorica de ordine longarum in aliis rebus vel metrum, interdum fere idem quod verus, metorymice id quod carmen, idem quod sonus. breviumque syllabarum idem quod ρυθμός interdum fere idem quod verus,

temporis spatiis :

generatim

fere idem quod finis

pertinet ad pecuniam, rem familiarum fere idem quod summa :

pertinet ad hominum (daemonum) multitudines fere idem quod numerus (de copia rerum)

pertinet ad pondus.

₽. sensu latiore notione metiendi plus minus evanida pertinet ad res, quae taxantur vel aestimantur ; pertinet ad ea, quae sensibus animadvertuntur ;

de gradu incrementi vel remissionis actionis, motus :

de amplitudine spatiorum :

generaliter

specialiter de animantium corporibus

de quantitate :

Liquorum

pertinet ad incorporea: rerum solidarum idem quod quantitas vel copia.

generaliter:

specialiter fere idem quod gradus

II. notione aucta accedit significatio approbandi, restringendi, obligandi, ut sit idem quod modus iustus vel opportunus, quem supergredi, vel infra quem remanere non licet.

sensu strictiore pertinet ad res, quae mensurantur: proprie de locorum vel corporum spatiis :

de spatiis porrectis :

pertinet ad areas.

pertinet ad longitudines :

generaliter.

specialiter de librorum sim. modo iusto, saepe fere idem quod finis.

Y. pertinet ad ambitum rerum et longarum et latarum et altarum.

translate de spatiis cogitatis : de rebus, quae vasis mensurantur.

<u>ہ</u>

pertinet ad tempus, sc. de temporis spatiis iustis et opportunis, interdum fere idem quod finis.

Ġ. pertinet ad pecuniam, rem familiarum, fere idem quod summa iusta et opportuna.

57

Pertinet ad multitudines, fere idem quod mumerus: rerum. animantium.

sensu latiore pertinet ad res, quae taxantur vel aestimantur; pertinet ad corporea :

ad quantitates :

₩.

de aliis quantitatibus. de cibi potionisque quantitate iusta vel opportuna.

<u>ت</u> pertinet ad spatia :

fere idem quod magnitudo certa, restricta, solita. fere idem quod finis restringens.

pertinet ad incorporea ρ

N

generaliter (saepe idem quod finis : interdum vergit speciatim : ad notionem moderationis)

idem quod moderatio.

idem quod vitae condicio modestior.

Ħ. idem quod mensura, qua metimur

proprie:

de mensuris, quibus liquores sim. mensurantur. de spatiis, quibus longitudines vel areae mensurantur.

Ħ translate :

pertinet ad incorporea ;

speciatim

P de sensuum facultatibus.

ad artem metricam de spatiis cogitatis : pertinet ad tempus.

generatim ad numeros

'n Petinet ad homines, idem quod norma, winos.

Caput Alterum : idem quod ratio et via vel habitus, genus.

H pertinet ad actiones, de ratione agendi, idem quod ratio et via :

in universum:

Ħ in artibus et disciplinis :

in arte dicendi :

pertinet ad rationem dicendi (interdum fere idem quod habitus,

pertinet ad rationem facti. forma, genus.

N in philosophia ; generaliter ;

speciatim :

de rationibus concludendi.

de ratione agendi, quae propositionis praedicatum restringit.

ŵ in arte grammatica (saepe vergit ad notionem habitus): generaliter :

specialiter pertinet ad verbum

ad tempora.

ad genera verbi. ad qualitates verbi.

idem quod Stary or ?

in scientia iuris :

fere idem quod forma. generaliter de ratione, qua quid legitime agatur,

Ġ, speciatim

fere idem quod condicio.

qua is, cui datur, aliquid faciendi officio idem quod dationis, sc. sive donationis sive legati sive venditionis, restrictio quaedam, oneratur.

adde in arte amandi (saltandi) idem quod, figura, positio,

Ħ pertinet ad qualitatem rerum vel animantium, idem quod habitus, proprietas, status, genus :

spectat ad res

incorporeas : generaliter:

specialiter pertinet ad vocabulorum notionem idem quod significatus, notio, sensus

de rebus corporeis.

₩ spectat ad animantia :

de forma, figura corporum.

de habitu morum, ingenii. (τρόπος, mos).

2. - Concerning the word 'size'

analysis of the Latin term itself stricter sense : extensio metiendo definita, 'extension known, so far removed from the English or French word 'mode' and so close defined or ascertained by the activity of measuring' seems to be attention be paid to them three words before undertaking the to the English word 'size' that it is imperative that immediate The definition given by the TLL as the primary notion in its

Though the word 'mode' is to be found in written records in English only as far back as 1520, its influence goes back at least another four hundred and fifty years to the Norman invasion in 1066.

The Oxford English Dictionary states that in documents dating back to 1267 the Anglo-Saxon word 'mood' was already being confused with various meanings of 'mode'. This was the result of the bilingual and even trilingual confusion of the period as the French of the court and the Latin of the monasteries and universities came into contact and conflict with Anglo-Saxon, the mother-tongue of the majority of the common people.

In 1532, 'mode' referred to 'grammatical modes' and then the 'logical modes'; also to a 'tune', or 'air', and the 'modes of church music'. Written records from 1667 indicate the sense of a 'way or manner of doing something'; from 1645, the meaning of a 'prevailing fashion' or 'custom', 'practice' or 'style'. In brief, the word was adopted into English with all the senses that French had conserved from Latin.

Were borrowed from Latin as mots savants, erudite words not belonging to the everyday language of the common people. In the fourteenth century, the feminine form was used in the sense of manière and also as a term in grammar and music. All the various meanings belonged to the feminine noun until the seventeenth century when

the original Latin masculine gender was reborrowed to designate all (1) technical and philosophical senses, such as the 'modes of being'.

by a voiceless $-f_-$, (which according to Bourciez rarely happened). in Rheto-Romanic, mied. gave the form modu with a short -o-. it was used with the spelling moouf. These two words record the Latin of the monasteries and universities. In the works of Rollin, phonetically as the new Romance language grew out of Latin. people. This word meuf was native French and derived from modus until the eighteenth century pertained to the French of the common form meuf refers to grammatical meanings French Canadian cheuf for chef. In Provençal, modu became mo The short -o- became a labialized diphthong(such as is heard in phonetic changes which Latin suffered as it was transformed into to the fourteenth century it was the only word known outside of the French. As the Latin accusative is the source of most French, modum The literary borrowings succeeded in suppressing a word which The only recorded meaning for the French The voiced -d- was replaced

In borrowing the word <u>mode</u> both French and English adopted only the abstract meanings of the word. They severed it from its everyday concrete meanings upon which the abstract usage had been

⁽¹⁾ The Oxford English Dictionary on Historical Principles, Vol. 6, pp. 567-568. (Abbreviated OED).

⁽¹⁾ Cf. Albert Dauzat, Dictionnaire Etymologique, p. 480

⁽²⁾ Cf. Crandsaignes D'Hauterive, Dictionnaire D'Ancien Français, p. 124. Also, Oscar Bloch and Walther von Wartburg, Dictionnaire Etymologique de la Langue Française, (3rd ed.), p. 392.

⁽³⁾ E. Bourciez, Précis de Phonétique française, p. 150, remark 3.

superimposed. They lost sight of the very image that the sound of the word would have brought to the mind of any ordinary Roman living at the time of Plautus, Cicero or Augustine, a period covering over six hundred years. In fact, since the French language had no special word for the first concrete sense of modus, it had to cover the difficulty by using an implicit equivocation: the word mesure has to refer to the instrument of measuring and the size of the thing measured. But no French dictionary seems to dissipate the equivocation.

Before the word 'size' is discussed, it should be noted that the English word 'measurement' presents itself for consideration as a translation. Defined by the O.E.D.; "I. the action or an act of measuring; mensuration. 2. A dimension ascertained by measuring; size or extent measured by a standard. 3. A system of measuring or measures." Here the second meaning of 'measurement' is a synonym for 'size' and is an acceptable translation of modus, for 'measurement' indicates the relationship and dependence of the measured upon the measure. At times, measure is a synonym of measurement; the measure, but 'a certain measure', that is, 'a measurement'.

However, the English word that conveys readily the proper nuance is 'size', for, e.g., the expression 'the size of a hat' is more current than 'the measurement of a hat'. In the first meaning of the word the modus of a thing is the 'size' of a thing.

Strangely enough, the etymological development of the two words contains parallels; they both have referred to the activity of judging, proper to law-courts. Here, however, a few salient details about the word 'size' are in order. 'Size' is an aphetic form of 'assize'; that is, the word has been formed by the gradual and unintentional loss of an initial short

As related to the English law term assize (1266), meaning a 'sitting of a consultative or legislative body, it has retained in some British dialects its first usage referring to legal proceedings of the nature of inquest or recognitions, certain sessions in England administering civil and criminal justice by judges acting under special commissions, and trials by jury.

forms derived from l'assise being apprehended as la sise

It comes from Old French sise or cise,

unaccented vowel.

Noteworthy in all these details is the fact that 'size' has its origins in juridical procedures where the act of judging is dominant. The act of sitting (asseoir, s'asseoir, assis in French from Latin, assidere) was the concrete activity which slowly came to designate the intellectual activity of making legal decisions. In other words, the physical position of the judges and jury came to signify the appropriate mental activity of rendering binding decisions, measuring out the law on the matter presented for judgment.

A second sense of 'size' is that of an ordinance fixing the amount of a payment of tax (1733). A third sense, used

^{(1) 0.} E. D., Vol. 6, p. 281.

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particularly at Cambridge University, is that of a 'quantity or portion' of bread, ale, and other food given to poor scholars.

These three senses are grouped in the O.E.D. A second group of meanings is given as follows. In late Middle English, 'size' was used to refer to the magnitude, bulk, bigness, or dimensions of anything. In 1667, it was used abstractly as a synonym with magnitude. More restricted uses include: 1) a particular magnitude or set of dimensions, especially one of a series in manufactured articles, as boots or gloves (1591); 2) as far back as 1530, that of magnitude, extent, rate, amount, etc., as a standard of immaterial things; 3) the mental or moral qualities, rank or position of persons; hence, class, kind, degree, order (1679).

The noun has given rise to a verb meaning in general 'to regulate or control, in relation to a fixed standard' (1771).

Other more precise meanings noted by the dictionary are: 'to make of a certain size; to give size to; to adjust in respect to size' (1609); again, 'to classify or arrange according to size' (1635); finally, in American colloquial speech, usually with up, 'to take the size or measure of; to regard so as to form an opinion of, to make an estimate of' (1884).

A few examples indicating the vigorous influence of the word 'size' in English thought and speech in the last four hundred years are not out of place.

In January, 1959, Dwight D. Eisenhower, then President of the United States of America, was quoted as asaying: "What counts is not necessarily the size of the dog in the fight. It's the size of the fight in the dog."

In a similar vein, Hervey Allen in Anthony Advarse wrote:
The dog, a small, lean animal whose capacity for clamour seemed out of all proportion to its size, was tied to a pillar of the veranda, straining at its leash." And again, "Vincent Nolte was, as McMab once remarked, "a little too large for his size."

"We're both of a size", is an observation of one of the (4) characters in the novel Arundel by Kenneth Roberts. The inference is that the persons referred to are of the same height and build. In another passage someone remarked that "Arnold's room was size-(5) able."

In a biography, Voltaire, written in 1886, John Morley (6 wrote: "There are things to be said of Voltaire's moral size."

⁽¹⁾ Cf. O.E.D., Vol. 9, pp. 123-125.

⁽¹⁾ Cited in Time magazine, Feb. 2, 1959, p.

⁽²⁾ p. 557.

⁽³⁾ p. 20.

⁽⁴⁾ p. 208.

⁽⁵⁾ p. 357.

⁽⁶⁾ Gited in O.E.D.; cf. footnote, page 62.

A modern poet, Marianne Moore, uses the word effectively in the following lines:

If I, like Solomon, ...
could have my wish —
my wish ... 0 to be a dragon,
a symbol of the power of Heaven — of
silkworn
size or immense; at times invisible.
Felicitous phenomenon ! (1)

Here the nature of the silkworm is the measure of a desired size.

One of the most idiomatic uses of size is found in the phrase shapes and sizes. For example ;

Around the atom which now comes in almost all shapes and sizes, the U.S. now deploys a versatile force -- Army, Navy and Air Force... (2)

This expression seems to capture perfectly the entire nuance of the Latin expression used in logic figurae et modi syllogismorum.

Perhaps logical doctrine could be taught more clearily and easily if mention were made of the 'shapes and sizes' of the syllogism instead of its 'figures and modes'.

In Chapter Two of this thesis a text of St. Thomas was cited indicating that modus est commensuratio. The following passage coordinates the terms 'to size up' and 'to commensurate';

About the big issues I was clear, but confronted by the petty details of life I was bewildered. I had to witness this same bewilderment on a

colossal scale before I could grasp what it was all about. Ordinary men are often quicker in sizing up the practical situation: their ego is commensurate with the demands made upon it: the world is not very different from what they imagine it to be. But a man who is completely out of step with the rest of the world is either suffering from a colossal inflation of his ego or else the ego is so submerged as to be practically non-existent. (1)

The O.E.D. cites a passage from Burnett; "He understood well the size of their understanding."

As final evidence for the well-established relationship between the word 'size' and the English way of speaking, the poet Shakespeare provides us with a passage that is perhaps more eloquent that the writings of any modern author. In Hamlet (Act 3, Sc. 2), there is a play given by travelling players called The Mousetrap. Love and fear are spoken of as quantities; each can be the measure of the other and can impose some sort of limit on the growth of the other. The Play Queen, who has poisoned her husband, hides her treachery as she addresses her dying spouse:

But, woe is me, you are so sick of late, So far from cheer and from your former state, That I distrust you. Yet, though I distrust, Discomfort you, my Lord, it nothing must; For women's fear and love holds quantity; In neither aught, or in extremity.

Now, what my love is, proof hath made you know; And as my love is siz'd, my fear is so:

Where love is great, the littlest doubts are fear; Where little fears grow great, great love grows there.

⁽¹⁾ Cited in Time magazine, Sept. 21, 1959, pp. 90-94.

⁽²⁾ Time, Feb. 25, 1957, p. 20.

⁽¹⁾ Henry Miller, Tropic of Capricorn, p. 319.

This passage brings to minds the famous phrase of St. Bernard; causa diligendi Deum, Deus est: modus, sine modo diligere.

Perhaps the latter part can be clearly translated; "the size of our love of God is to love God without any size to our love."

Other citations from many sources could be given; but the essential point at issue is established; the word 'size' is part and parcel of the ordinary language which constitutes typical English. The fact that the public speaker, the poet and the writer can use it effectively and still be easily understood leads one to the observation that it appears strange that the word 'size' has not been used to greater advantage in philosophical discussions. Perhaps intellectual laziness is the only excuse for translating modus by 'mode'.

3. - The etymology of the word modus

In the sixteenth century an Italian, Sassetti, found in India a language which strangely resembled Italian. Two centuries passed before an Englishman, William Jones, realized that Sanskrit also resembled Latin and Greek and thus raised the important question of a possible common origin. Slowly Latin, Greek and Sanskrit along with other languages were proved to be sisterlanguages. Thanks to those countless others who followed, there developed a splendid use of dielectical reasoning, now known as

which no written records can exist (because the speakers could not write). The mother-tongue or common source of nine fairly distinct language groups is now usually called Indo-European.

In recreating this common source through long tedious comparisons of many languages and words, linguists have been able to verify elements which concern both the 'meanings' of the stems as well as of the inflections which constitute morphology and condition syntax. It is curious to find a high number of stems which refer to intellectual activity and contain two common sounds *-ME-. Of four radicals which need to be mentioned at this stage *-ME-, *-MED-, *-MEN-, the latter three signify intellectual activity.

According to the present state of linguistic research, the last of these radicals (*-MEN-, used to indicate the 'movements of the mind') is not directly relatable to the other three; however, Emile Benveniste, one of the foremost scholars in the field of Indo-European, has been developing new hypotheses which may some day lead to a proof of a connection

Though the first radical: *-ME- does not refer to intellectual activity, it is related to the second radical, the source of the Latin word metion. *-ME- refers to the particular

⁽¹⁾ Cited in the S. T., II-II, q 27, a. 6, it is from the first chapter of his Liber de Diligendo Deum, Magne P.L., pp. 973-1000.

⁽¹⁾ J. Pokorney, Indo germanisches Etymologisches Worterbuch, Vol. I, 703-727.

in a series of Latin words which signify 'reaping' or 'harvesting' in the German word for 'knife' : messer; in the English word meadow, which means the 'field where the hay-to-be-cut grows'; and finally activity of cutting which is harvesting or reaping. It has survived metere, messum : messis : messio

From mensus was derived the noun mensura, whose first meaning is greater detail in the next chapter. From mensura was derived denominative verb mensuro, mensurare, mensuravi, mensuratus is difficult to explain; however this problem is not a major one. the 'action of measuring'. and Meillet note that the -N- in the stem of the perfect participle activity of measuring appears in metior, metiri, mensus. *-MET-, *-MENO-, *-ME-TI-, *-ME-TO. The second radical *-ME- is seen under such forms as *-ME-, This meaning will be discussed in This radical referring to the Ernout

PA LL medical care. *-SOCEN-* that the verb metior is related to the third radical *-MED-, lists the ideas of 'thinking', 'judging', Pokorney, along with Ernout and Meillet *-MED-, which implies the activity of 'measuring' and It is under this root that Grandsaignes D'Hauteare of the opinion £ 'measuring',

medicus, from this third source are : 1) mederi, 'to care for the sick'; re-medium, dicamentum, 3) With the idea of thinking, Latin has meditari, moderare, commoditas, 'advantage'; commodare, dry goods; modiolus, 'a small measure'. Also : commodus, 'appropriate'; modulus, measuring, Latin has modus, 'measure of surfaces', etc.; quo-modo 'caring for the sick', and 'governing'. The Latin words derived praemeditari, 'to exercise ahead of time', 'to premeditate' mind to', 'to meditate'; meditatio, 'exercise', 'meditation'; of the quality of what observes the measure; modestia, moderation modicus, 'measured'; modificare, 'to modify'; modius, measure 'how'; modo, 'doctor'; medicare, 'to care for the sick'; medicamen, 'a small measure', 'rhythm'; modulare, 'to moderate'; moderatio, 'remedy'; re-mediare, 'to hear'. 2) With the idea of 'medicament'; medicinus, 'recently'; from this latter, modernus, accommodare, 'to adapt'. Finally, moderation; modestus, possessed 'medical'; medicina, 'to modulate'; to apply the 'modern'; 'medicine';

related because of the close connection of meaning, 'the physical D'Hauterive suggests as one translation of metior, parcourir ('to physical activity of 'marking off' an object and knowing ly strong to be useful in manifesting a connection between for the relationship of the stem is only probable, it is sufficientand mental activity of measuring'. Even if the linguistic proof run through, 'intellectually' its quantity with precision. Grandsaignes Linguists feel that the second and third radicals are to go through and come to the end of something!);

[£] A. Ernout and A. MULLLOW, Dp. 408-409. Cf. also p. 374, where it is pointed out that Isidore, Cr. 4, 21. observed the relationship between modus and medeor: medeor a modo, id est. a temperamento. This would indicate that the Ernout and A. Meillet, Dictionnaire Etymologique de Langue Latine, 4th ed., pp. 108-409. Cf. also p. 392. est, a temperamento. This would indicated ages were in contact with the right etymology.

<u>(%</u> R. Grandsaignes D'Hauterive, Dictionnaire des Racines Langues Européennes, pp. 1194770. ges

connection between knowledge and physical activity. his suggestion has the happy advantage of muancing the close

activity that was used to name the basic knowing power itself is a measuring, a marking off), difficulty in admitting that measuring may well have been one a proper activity of mind. To the degree that measuring is a (the mind). distinctive and specific intellectual activity (for every judgment thousand years ago, the psychologist is certain that measuring is etymologically related in a common ancestor spoken over five (from the second stem) and 'mind' (from the fourth stem) are To go a step further : whether or not the words 'measure' the psychologist would have no

recorded in a single word. since it reveals how an important advance in civilization has been background in order to approach the precise first meaning of modus. Indo-European ancestors. A résumé of his research is imperative word modus reveals the existence of a medical doctrine among our Emile Benveniste has written an absorbing essay showing how the The cursory review of all these words provides a needed

speaking" by the use of one word, there might be "the existence of medical treatment properly It would seem that if it were necessary to prove

midiur, the same on gito; in Gothic mitan, 'to measure'; in Armondation mit (medi) 'thought'. Some fundamental signification that can take its origin in to Oscan meddiss, 'a judge'; Greek medomai, 'to care for', 'to worry about'; medon 'chief'; in Old Irish middiur, the same as the Latin word 'iudico', 'coroom to doubt the existence of "medicine" among some meanings that are as diverse as 'to judge, to other contexts senses that are strikingly different; the Latin medeor, our ancestors who spoke Indo-European. Yet the (Avestic) vi-mad-, 'to care for a sick person'. comparative proof rests upon the concordance of govern, to heal!. Tto care for a sick person'.

sis), but a measure of moderation. (cf. modus: moderor), applied with reference to that which violates or ignores the rule. This is why modus on things and which supposes knowledge, reflection, frequentative meditor and has the value of derivative modestus, at the same time that it has a sense of 'reflection' as proved by the has a moral sense which is clearly seen in its authority; not a measure of mensuration (as in menthe notion of measure but other than conceived in the nominal form of the root *med-. to unite these diverse senses is the word modus The first bit of evidence that will be found We have here

the Old Irish and Armenian forms. have according to a standard already adopted. right. The Gothic mitan is but a weakened form of the same notion of measure; us-mitan means to bethe word med-corresponds to the Latin ius seen in iudex, the one who speaks or announces what is the Oscan word for judge med-diss, indicates the one who announces the measures to be taken. Here appropriate to a particular situation. around the idea of taking authoritative measures authority which is apparent in the verb moderari. The notion of decision and judgment are found in The Greek words already cited are grouped

play the same capacities and requires the same European medicines supposes reflection, competence form of measurement. decisions of judges. and authority. The treatment of diseases calls into from the medicine of primitives. prudent measures' as the government of men and the Treating a sick patient medically is a restricted This is totally different It is apparent that Indo-At the level of

户 rum". S. T., I, q. 79, a. 9, ad 4. St. Thomas accepted the opinion of St. John Damascene given in objection 4, "Diludicare vero, vel mensurare, est actus intellectus applicantis principia certa ad examinationem proposito-"mens dicitur a metiendo"

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culture where this lexical analysis places us, the doctor is no longer a witchdoctor, but a thinker. (1)

relationships between modus and size. The Oscan word for judge!,

med-diss (Lat. Mus-dics, iudex), 'the one who speaks or indicates
what is right', recalls to mind the juridical origin of size.

Or again, the medical aspect of modus suggests that the doctor has
to size up both the patient and the remedy to be applied. The rightness of the result (health) can be achieved only by the right use
of medicine.

establishes a remedy, but has he discovered the relationship of to proper effects or the curing of disease. careful measuring of the relationships of proper means or remedies doctors when their herbs and incantations are replaced by the that the notion of 'to heal' is last, because witch-doctors become is not as clear as could be desired. attempt to see if there is any order from one notion to the next from which a common fundamental signification could be induced, his completely diverse values : 1) to judge, 2) to govern, 3) to heal, Furthermore, though he points out that the radical *-MED- has three mensuration and a measure of moderation, his terseness does not allow one to grasp easily the full value of the opposition. Yet when Benveniste distinghishes between a measure It seems plausible, however, The witch-doctor of,

second meaning would be the notion of measuring as found in supposes the measure as existing and sees that it is applied; the and health. elements and contracts them to the particular matter of sickness measure, and the third meaning is one that embraces these two of measuring as best seen in the notion of 'judging' which pre-Perhaps then the first meaning of the radical *-MED- is the notion the right of applying the rule or measurement already decided upon establish a law or rule, or measurement while 'judging' involves qualities of the doctor which reveal his position as 'governor' and remedy to the disease ? The doctor has to discover the remedy 'governing' which emphasizes the privilege of establishing a 'judge'; 'governing' seems to involve the right to discover or apply it. The discovery and application of theremedy are two and

This conjecture -- plausible or implausible -- concerning the order between the three notions is not as idle as it might appear because its chief value here is to make obvious the complexity of the problem of measure.

4. - The signification of the word modus

It has not been forgotten that the etymology of a word is (1) not the meaning of a word. A Roman living at the time of Plautus

⁽¹⁾ Emile Benveniste, "La Doctrine Médicale", Revue de l'histoire des Religions, Tome 130 (145), pp. 5-12.

⁽¹⁾ Varro seems to be the first Latin to have borrowed the distinction from the Greeks: "Quom uniuscujusque verbinaturae sint duae, a qua re et in qua re vocabulum sit impositum..., priorem illam partem, ubi, quor et unde

- Agri reliquit ei non magnum modum. (Plaut. Aul. 13).
 [He did not leave him a large size field].
- 2. De aestimatione, ut scribis, cum agere coeperimus etsi nihil scripsit nisi de modo agri. (Cic. Att. 13, 33, 2).

 "We will do as you say about the valuation when we commence the negotiations though hitherto he has mentioned in his letters nothing but the extent (acreage) of the property." (2)

The authors of the translation have attained the right muance of the word modus with the word 'acreage', for the acreage is the size of the field as measured.

sint varba, scrutantur, Graeci vocant. Enquanda villam alteram nepi onjaivouewov.... De Lingua Latina, c. I (Ed. Firmin-Didot).

Cf. St. Thomas : "aliud est etymologia nominis, et aliud est significatio nominis. Etymologia attenditur secundum id a quo imponitur nomen ad significandum; nominis vero significatio secundum id ad quod significandum nomen imponitur." II-II, q. 92, a. 1, ad 2.

- (1) Cf. Ernout and Meillet, Op. cit., p. 409 b.
- (2) English translation by Tyrrell, Purser, The Correspondence of M. Tullius Cicero, Vol. V, p. 112 (2nd ed.).

3. Hoc erat in votis : modus agri non ita magnus. (Hor. Sat., 2, 6, 1).
"C'était mon voeu ; un domaine dont l'étendue ne serait pas trop grande". (1)

3

The only comment here is a question : would the average French speaking person consider une étendue as a synonym of une mesure

- Neque quiquem agri modum certum aut fines habet proprios. (Gaesar, De Bel.Gal., 6, 22, 2). [Nor did anyone have his own field with determined size or limits.]
- 5. Earum (navium) modum formamque demonstrat. (Tbid., 5, 1, 2). [(Caesar) indicates the size and the shape of the ships (to be constructed).]

At this point a reference to the learned Lexicon Caesarianum reveals that Meusel did not grasp the subtle nuances of Caesar's vocabulary when he tried to organize all uses of the word under two divisions, the first as a synonym of μέτρον and the second as a synonym of

These few quotations from the multitude found in the <u>FLL</u>
show beyond the shadow of a doubt that St. Augustine was within the classical tradition when he provided the definition which became the touchstone of the Middle Ages; mensura omni rei modum praefigit. For it is now clear that the first meaning implies quantity and measurement.

⁽¹⁾ French translation by François Villeneuve, Horace, Satires, p. 190.

⁽²⁾ Vol. II, p. 630.