CONCLUSION:

Like every doctrine that attracts great numbers of men, Marxism, toom, must have some foundation in truth. Just as man, even in doing evil pursues evil as a good, so in clinging to error, he does so because it has the semblance of truth. The notion of conflict in nature is not without foundation. Indeed conflict is deeply embedded in nature, if we understand correctly the meaning of conflict and the meaning of nature. We can say that conflict is the parent of development, and at the same time give this statement almost the universality that dialectical materialism gives to it. We can give it an even broader extension, for we can admit progress through conflict in the purely spiritual order.

Though the Marxists erred in stating that everything in nature is intrinsically contradictory and when they said that privation is the source of fecundity in the natural world, they were not wrong in their observation both of the world of nature and of human society. Pope Leo XIII's two Letters, "Quadragesimo Anno" and "Divini Redemptoris" recognize the fact of conflict in society, and they realize the part that this conflict had in bringing about the present state of society.

The conflict between good and evil, the sad heritage of original sin, has continued to rage in the world; the tempter of old has never ceased, through his deceiving promisses to triumph over the human race. That is why,

in the course of the centuries, we have seen one revolution after another, up until the present revolution —— a revolution which is menacing the whole world and one which by its violence surpasses those suffered by the Church in its early days. (197).

man. It is true that conflict in society is due, to a great extent, to the fallen state of man. But even in a purely natural condition conflict would have been necessary, since not only society, but even the individual man is made up of parts that must be coordinated only through effort. This conflict is but evidence of the imperfection of man's nature.

Conflict, which is not, absolutely speaking, a good in itself, can become an instrument of good; it can be the condition for great progress in the spiritual, in the intellectual and in the physical life of man.

appetite of man is not an absolute good, but it is the condition for progress in virtue. In the intellectual order there is not great development except through conflict. It is by meeting difficulties and overcoming them that the mind gains strength. This is, indeed, one of the reasons why Aristotle proceeded the way he did in the exposition of his philosophy —— he presented the difficulties of the adversaries so that in overcoming them the student might the more

strongly hold to the true doctrine. Teaching which merely gives the student the end product without going over the rough road to reach the truth is not true education. In the physical growth of man conflict is necessary; and the strenuous training of an athlete is a verification of it.

energetic life is evident wherever we turn. Sometimes, however, the conflict does not result to the benefit of the individual, for the negative element may destroy the good. This is the unfortunate condition of those whom temptation finds wanting. Nor does every conflict in the intellectual or physical order turn always to the greater good of the individual. Marxists recognized that not all negation permits the development of a higher form of being, for they declared that in the application of the law of negation, care must be taken to observe all those conditions of the object which make resurgence possible on a higher plane.

As was pointed out earlier the analysis undertaken in this thesis is not directed against the Historical Materialism of Karl Marx, but against the Dialectics of Nature of his followers. Though involving a conflict of various groups in society, the Historical Materialism of Marx does not involve the

logical confusion upon which the Dialectics of Nature is founded.

This latter is open to criticism through purely logical and natural principles, since Marxists have put themselves in a position in which a purely theoretical criticism was possible. They have both declared Dialectics of Nature to be a continuation of the philosophy of the ancient Greeks, and they have claimed that their system is a complete philosophy, as we understand that term.

Through an investigation of the writings of the ancient Greeks we concluded that there could not be anything more than an external similarity between the teaching of the early philosophers and that of the Marxists. And now in this final part we conclude that Marxism, judged from theoretical principles, not only involves contradictions but that it is reducible to a static philosophy.

THE END.

APPENDIX:

- (1) We use the adjective or substantive Marxist and the noun Marxism in reference to the expend doctrine of dialectical materialism as taught by such theorists as Engels, Lenin and Stalin. On the other hand we use Marxism and Marxismism to refer to that doctrine that is found in Marx' can writings. This latter can be more properly called Misterical Mature, while the former is designated by Dialectics of Mature.
- (2) Lenin, Marx-Engels : Marxism, p. 50. For complete data on all books of. Hibliography.
- (3) J.B.S. Haldane, The Markist Philosophy and the Sciences, p. 17.
- (4) Lonin, Three Sources of Barxism, Lonin's Selected Works, V.XI,p.5.
- (5) Stalin, Disloctical and Mistorical Materialism, p. 21.
- (6) Marx, Capital, p. 25.
- (7) Marz, Theses on Fewerbach, no. I, quoted in Engels, Ladwig Fewerbach, p. 75.
- (8) Ibid., Thesis II, p. 73.
- (9) Engels, Ludwig Fenerbach, p. 51.
- (10) Plekanov, .uestious Fondamentales, p. 11.
- (11) Engels, Dislectics of Nature, p. 14.
- (12) Engels, Anti-Dühring, p. 7.
- (13) Fragment no. 8, quoted by Surnet, Early Grock Philosophy, p. 174.
- (14) Cf. Hack, God in Grock Philosophy, p. 60.
- (15) Ibid., p. 61.
- (16) Ibid., p. 65.
- (17) Aristotle, Ethics VI, c. 2, 1159 a 3-15.
- (13) Fragment no. 8, 1. 37-42, Burnet, op. cit., p. 176.
- (19) Fragment no. 8, 1. 63-60, Surnet, Ibid., p. 176.

- (20) Fragment no. 9, Burnet, Ibid., p. 176.
- (21) Fragment nos. 10 and 11, Burnet, Ibid., p. 177.
- (22) Fragment no. 12, Burnet, Ibid., p. 177.
- (23) John of St. Thomas, Cur. Theol., T. II, disp. 9, art. 3.
- (24) Aristotle, Physics I. C. 2, 185 b 17.
- (25) Plekanov, Questions Fondamentales, p. 98.
- (26) Aristotlo, Motaphysics XI, c. 2, 1086 a 8.
- (27) Aristotle, Physics III, c. 1, 201 b 20.
- (28) Fragment no. 8, 1. 42-50, Burnet, op. cit., p. 176.
- (29) Fragment no. 6, 1. 26, Burnet, Ibid., p. 175.
- (30) on the intelligible sphere, of Hack, op. cit., p. 87.
- (31) Debroglie, Prefuce to Dmile Deverson's Essais.
- (32) Diels, Fragmente der Vorsekratiker, 19 a 2.
- (53) Bristotle, Topics I, c. 1, 100 a 50.
- (34) Plato, Sophist, 216 a S.
- (35) Lee, Zeno of Elea, p. 120.
- (36) lokanov, mostions Fondamentales, p. 98.
- (57) Zeno's arguments against plurality :
 - 1) Aristotle, Meta. II, c. 6, 1001 b 7:

 "Further, if unity-itself is indivisible, it will according to Zono's principle be nothing. For what does not make greater when added nor smaller when subtracted he denies to have existence at all, on the grounds, clearly, that whatever exists has spatial magnitude. And if it has spatial magnitude it is corporeal; for the corporeal has existence in every dimension. But the other (objects of mathematics), that is plane and line, will make greater if added in one way, but not if added in another; while point and unit do so in no way whatever".

and the second second

2) Simplicius, 159. 27: (Quoted by Lee, Zeno of Blea, p. 13) "Parmonides had enother argument which was thought to prove by means of dichotomy that what is, is one only, and accordingly without parts and indivisible. For, he argues, if it were divisible, then suppose the process of dichotomy to have taken place; then either there will be left certain ultimate magnitudes, which are minima and indivisible, but infinite in number, and so the whole will be made up of minima but of an infinite number of them; or else it will wanish and be divided away into nothing, and so be made up of parts that are nothing. Both of which conclusions are absurd. It cannot therefore be divided, but remains one. Further, since it is everywhere homogeneous, if it is divisible, it will be divisible at another. Suppose it therefore everywhere divides. Then it is clear again that nothing remains and it vanishes, and so that, if it is made up of parts, it is made of parts that are nothing. For so long as any part having magnitude if left, the process of division is not complete. And so, he argues, it is obvious from there considerations that what is indivisible, with our parts, and one".

3) Philonomus, 80. 25 : (Lee, Thid., p. 13-14) "His disciple Zeno, in support of his master, tried to provo that what is, is of necessity one and unnoved. He rested his proof of this on the infinite divisibility of any continua. For, in argued, if what is were not one and indivisible, but were divided into a plurality, nothing would be one in the proper sense (for, if the continue were divided, it would be divisible ad infinitum): but, if nothing is one in the proper sense, there can be no plurality, if plurality consists of a plurality of units. It is therefore impossible for what if to be divided into a plurality; it is therefore one only. Alternatively the argument may run as follows. If there were no indivisible unity, there could be no plurality, for plurality consists of a plurality of units. Each unit then is either one and indivisible, or itself divided into a plurality. Therefore, if each unit is one and indivisible, the whole is built up of indivisible reinitudes; but if the unite are themselves divided, we shall again ask the same question about each of these units that are so divided, and so on ad infinitum. And so the whole will be infinitely many times infinite, if there is a plurality of things that are. But, if this is absurd, then what is, is one only, and it is not possible for there to be a plurality of things that are; for it is necessary to divide each unit an infinite number of times, which is absurd".

Zeno's arguments against motion:

1) Aristotle, Physics VI, c. 0, 239 b 5:

"Zeno's reasoning, however, is fallacious, when he says that

if everything when it occupies an equal space is at rest, and if that which is in locomotion is always occupying such a space at any moment, the flying arrow is therefore motionless. This is false, for time is not composed of indivisible accents any more than any other magnitude is composed of indivisibles.

Zeno's arguments about motion, which cause so much disquist to those who try to solve the problems that they present, are four in number. The first asserts the non-existence of motion on the ground that that which is in locomotion must arrive at the half-way stage before it arrives at the goal. This we have discussed above. (255 a 15).

The second is the so-called 'Achilles ', and it emounts to this, that in a race the quickest rumer can never evertake the slowest, since the pursuor must first reach the point whence the pursued started, so that the slower must always hold a load. This argument is the same in principle as that which depends on besection, though it differs from it in that the spaces with which we successively have to deal are not divided into halves. The result of the argument is that the slower is not overtaken. But it proceeds along the same lines as the bisection argument (for in both a division of the space in a certain way leads to the result that the goal is not roughed, though the 'Achilles' goes further in that it affirms that even the quickest runner in legendary tradition must fail in his pursuit of the slowest), so that the solution must be the same. And the exica that that which holds a lead in never overtains is flase; it is not overtaken, it is true, while it holds a lead; but it is evertaken nevertheless if it is granted that is traverses the finite distance prescribed. These then are two of his arguments.

The third is that already given above, to the effect that the flying arrow is at rest, which result follows from the assumption that time is composed of moments; if this assumption is not granted, the conclusion will not follow.

The Fourth argument is that concerning the two rows of bodies each row being composed of an equal number of bodies of equal size, passing each other on a race-course as they prodeed with equal velocity is opposite directions, the one row originally eccupying the space between the goal and the middle point of the course and the other that between the middle point and the starting-post. This he thinks involves the conclusion that half a given time is equal to double that time. The fallacy

of the reasoning lies in the assumption that a body occupies an equal time in passing with equal velicity a body that is in motion and a body of equal size that is at rest, which is false".

Aristotle, Physics VIII, c. 8, 265 a 4 : The same method should also be adopted in replying to those who ask, in the terms of Zeno's argument, whether we admit that before any distance can be traversed half the distance must be traversed, that these half-distances ere infinite in mumber, and that is impossible to traverse distances infinite in number --- or some on the lines of this came argument put the questions in another form, and would have us grant that in the time during which a motion is in progress is should be possible to recken a half-motion before the whole for every half distance that we get, so that we have the result that when the whole distance is traversed we have reckaned an infinite number, which is admittedly impossible. How when we first discussed the question of motion we put forward a solution of this difficulty turning on the fact that the period actimeoccupied in traversing the distance contains within itself on infinite number of units; there is no absurdity, we said, in apposing the traversing of infinite distances in infinite tire. And the element of infinity is present in the time no less than in the distance. But, although this solution is adequate as a reply to the questioner (the question asked being whether it is possible in a finite time to traverse or reckon an infinite number of units), nevertheless as an account of the fact and explanation to its true nature it is inadequate. For suppose the distance to be left out of account and the question asked to be no longer whether it is possible in a finite time to traverse an infinite number of distances, and suppose that the inquiry is made to refer to the time taken by itself (for the time contains an infinite number of divisions); then this solution will no longer be adequate, and we must apply the truth that we enunciated in our recent discussion, stating it in the following way. In the act of dividing the continuous distance into two halves one point is treated as two; since we make it a starting point and a finishing point; and this same result is also produced by the act of reckoning halves as well as by the act of dividing into halves. But if divisions are made in this way, neither the distance nor the motion will be continuous; for motion if it is to be continuous must relate to what is continuous; and though what is continuous contains an infinite number of belves, they are not actual but potential halves. If the halves are made actual, we shall get not a

continuous but an intermittent motion. In the case of reckening the halves, it is clear that this result follows; for then one point must be reckened as two; it will be the finishing point of the one half and the starting point of the other, if we recken not the one continuous whole but the two halves. Therefore to the question whether it is impossible to pass through an infinite number of units either of time or distance we must reply that in a sense it is, and in a sense it is not. If the units are actual, it is not possible; if they are potential, it is possible. For in the course of a centinuous motion the traveller has traversed an infinite number of units in an accidental characteristic of the distance to be an infinite number of half-distances, this is not its real and essential character.

Cf. also: On the Michotomy Simplicine, 1013. 4, ad 250 10 (Quoted by Lee, Zono of Elen, p.45).

Simplicius, 947. 5, ad 255 a 21 (les, Ibid., p.45).

Hilogamas, 802. 31, rd 253 a 21 (Lee, Ibid., p. 47).

Mapliotus, 1289, 5, ad 263 a 5 (Lor, Ibid., p. 49).

in the Achilles: Simplicius, 1015. 51, ad loc. (Lee, Told., p. 81).

On the Arrow: Simplicius, 1015. 19 ad 259 b 30 (Lee, Ibid., p. 53).

Simplicius, 1011. 19, ad 259 b 5 (Leo, Ibid., p. 53).

Thiloponus, 316. 30, ad 239 b 5 (i.e., Ibid., p. 55).

On the Stadium: Simplicius, 1016. 9-1019. 9, ad loc. (Lee, Ibid., p. 57).

- (38) Aristotle, Metaphysics III, c. 4, 1001 b 7; and Physics VI, c. d. 252 b 24.
- (39) iristotle. Thysics VI, c. 1, 231 b 16.
- (40) Ibid., 231 b 16.
- (41) Revue Philosophique, IX, p. 385, Tannery (1885) quoted by Lee, Zeno of Bles, p. 34.
- (42) Aristotlo, Physics VIII, c. 8, 263 a 5.

- (43) Aristotle, Physics VI, c. 2., 255 a 13.
- (64) Fragments nes. 24 106, passin, Burnet, op. cit. p. 136-140.
- (46) Hack, op. cit., p. 70.
- (48) Ibid., p. ?4.
- (47) Prognents nos, 1-09, pansin, Burnet, op. cit., p. 182142.
- (48) Hack, op. cit., p. 77,78.
- (49) inck, Drid., p. 77.
- (50) Engels, Disloctics of Nature, p. 125.
- (61) linck, op. cit., p. 78-79.
- (52) St. Thomas In Metaphysics V. 1. XI, no. 912.
- (53) St. Thomas, Procedum in Setaphysics.
- (54) DeBroglie, Preface to Meyerson's Essais.
- (55) St. Thomas, In Metaphysics I, no. 43.
- (56) Ibid., no. 44.
- (57) Ibid., no. 45.
- (58) Ibid., no. 46.
- (59) Pragments nos. 1-148, passim, Durnot, op. cit. 204-226.
- (60) Simplicius, Physics 28, 6, Sack, op cit., p. 119.
- (61) Theopirastus, Opinions I, Burnet, op. cit., p. 385.
- (62) Aristotle, do Gen. et Corr. A. 8, 524 b 35; 515 a 34, imok, op. cit., p. 180.
- (65) Diogones Laertius, II., 31, Back, op. cit., p. 122.
- (64) ot. Thomas, I a, q. 47, a. 2, c.
- (65) Arist. Meta. II, c. 1, 998 b 5;

"The investigation of the truth is in one way hard, in emother easy. An indication of this is found in the fact that

on one hand 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. Therefore since the truth some to be like the proverbial door, which no one can fail to hit, in this respect it must be easy, but the fact that we can have a whole truth and not the particular part we aim at shows the difficulty of it. Ferhaps, too, as difficulties are of two kinds, the cause of the present difficulty is not in the facts but in us. For as the eyes of bats are to the blaze of day, so is the reason in our soul to the things which are by nature most evident of all.

- (66) On the perfection of knowing things in fewer species, of.

 <u>Contra Contes</u> II, 98.
- (67) Hack, op. cit., p. 118.
- (68) Ariototlo, Physics II, c. 4, 193 a 25.
- (69) Aristotle, Ibid., c. 6, 198 a 5.
- (70) Aristotle, de Anima, 408 b 28.
- (71) cort. Math., VII, 135.
- (72) Hack, op., oit., p. 126.
- (73) Aristotle, Physics I, c. 4, 187 a 20-b 6.
- (75) Pragments nos. 1-17, passin, Burnet, op. cit., p. 258-260.
- (76) Pragments nos. 12 and 15, burnet, Ibid., p. 259-260.
- (77) Aristotlo, Metaphysics I, o. 4, 985 a 13.
- (78) Plato, Phaedo, nos 07-98.
- (79) Moratsky: Disloctical Materialism, p. 48:

 'The mechanists regard themselves as materialists; but, in fact, because of their inability to think disloctically, they are impotent in the face of idealism and are themselves forced to abandon the materialist position. As an example, one may eithe the inability of the mechanists to deal with the question of quantity and quality. This in one of the questions on which the limitations and shortenings and the metaphysical nature of the mechanistic philosophy are particularly revealed... Mocording to the mechanist conception, the explanation of all phenomena

must be sought in the mechanical motion of qualitatively identical and unchanging units (atoms, electrons). All qualitative differences between things are due to the difference in the composition of these units and to the difference in their simple mechanical motion (transplacement in space). Hence, quality does not exist in actual reality but depends entirely on our subjective perceptions.

(80) Ibid., p. 50 : This materialism, which denies the reality of higher forms of motion and reduces everything to gross and simple mechanical motion, to transplacement, proves to be absolutely helpless before idealism. For idealism also asserts that thought and the objective world are identical. Mechanical materialism, therefore, paves the way for idealism of the most subjective kind. It leads to the inevitable conclusion that the only reality is one's own sensations, for however much theoretical thinking may be demied, this reality cannot be denied. Moreover, exchanical materialism cannot resist the idealist belief in a creator, in some force external to the world, for the reason that mechanical materialism cannot explain what it is that sets in motion the gigantic mechanism that the world appears to him to be. The world machine of modispical materialism requires some external impulse, the universal clock requires somebody to wind it up. There is no way out of this dilemma except to acknowledge the existence of God".

(61) Engels: Ludwig Fewerbach, p. 36-57:

"The materialism of the last century was predominantly mechanical, because at that time, of all natural sciences, mechanics and indeed only the mechanics of solid bodies—celestial and terrestrial—in short, the mechanics of gravity, had come to any definite close.

mechanics to processes of a chemical and organic nature ---constituted a specific but at that time inevitable limitation
of classical French materialism.

The second specific limitation of this materialism lay in its inability to comprehend the universe as a process—as matter developing in an historical process. This was in accordance with the level of the natural science of that time, and with the astaphysical, i.e., anti-dislectical manner of philosophising commented with it. Sature, it was known, was in constant motion. But according to the ideas of that time, this motion turned eternally in a circle and therefore never moved from the spot; it produced the same results over and over again.

- "Cependant à côté et à la suite de la philosophie française du IVIIIe siècle, la philosophie allemende moderne était née et avait trouvé sa conclusion en Hegel. Son plus grand mérite fut le retour à la dialectique comme à la forme supérieure de la pensée. Les philosophes grecs de l'antiquité étaient tous, de naissance, par nature, des dialecticiens et le cerveau le plus universel parmi eux, Aristote, a aussi déjà étudié les formes les plus essentielles de la pensée dialectique. La philosophie moderne, au contraire, bien que la dialectique ait aussi été représentée avec éclat (par example par Descartes et Spinosa), fut de plus en plus engagée principalement par une influence anglaise dans le mode de la pensée dite "métaphysique" qui domine musei presque exclusivement ches les Français du XVIIIs siècle, tout au moins dans leurs travaux spécialement philosophiques".
- "And it must be recognised that the latter (Regelian dialectics) had a great advantage over materialism. It studied thing in their development, in their arising and dying every. If we exemine things from precisely this last point of view, the method of thinking characteristic of the encyclopmedists,—the transformation of a phenomenon into a fossillised thing by abstracting it from all the inner processes of life, the nature and connection of which it is impossible to understand—must be rejected. Regel, the Titan of the XIXe th century idealism, never ceased to fight against this method of thinking. For him "This metaphysic was not free or objective thinking. Instead of letting the object freely and spontaneously expound its own characteristics, metaphysic presupposed it readymade." (Encycl. page. 51)
- (84) Lenin, Correspondence, Letter to Maxim Gorky, letter no 20, 1909 a. d.
- (05) Hissonov, Harm and Pagels, p. 55.
- (36) Engels, Feuerbach, p. 26.
- (87) Plekanov, Questions Fondamentales, p. 16.
- (88) Engels, Anti-Dibring, I, p. 44-45.
- (89) Marx, Capital, Preface to Edition 2.
- (90) Adoratsky, Dislectical Materialism, p. 23.

- (91) Hook, From Hogel to Harx, p. 272.
- (92) Mekanov, questions Fordenentales, p. 50.
- (03) Marx, Capital, Preface to Edition 2.
- (94) Engels, Fourtbech, Appendix D. p. 98.
- (95) Masanov, Marx and Engels, p. 58.
- (96) Marx's Theses on Fewerbach: (Jotted down in Srussels in the Spring of 1845.
 - I. "The chaif defect of all hitherto existing materialism that of Feuertach included is that the object, reality, sensuousness, is conceived only in the form of the object or contemplation but not as human sensuous activity, practice, not subjectively. Thus it happened that the active side, in opposition to materialism, was developed by idealism but only abstractly, since, of course, idealism does not know real sensuous activity as such. Feuertach wants sensuous objects. Consequently, in the Essence of Christianity, he regards the theoretical attitude as the only genuinely human attitude, while practice is conceived and fixed only in its dirty Jewish form of appearance. Hence he does not grasp the significance of "Revolutionary", of practical—critical, activity.
- II. The question whether objective truth can be attributed to human thinking is not a question of theory but is a practical question. In practice man must prove the truth, i.e., the reality and power, the 'this-eidedness' of his thinking. The dispute over the reality or non-reality of thinking which is isolated from practice is a purely scholastic question.
- III. The materialist doctrine that men are products of circumstances and upbringing and that, therefore, changed men are products of other circumstances and changed upbringing, forgets that the educator must himself be educated. Hence this doctrine necessarily arrives at dividing society into two parts, of which one towers above society (in Robert Owen, for example).
- IV. Fenerbach starts out from the fact of religious self-alientation, the duplication of the world into a religious, imaginary world and a real one. His work consists in the dissolution of the religious world into this secular basis. He overlooks the fact that after completing this work, the chaif thing still remains to be done. For the fact that the secular foundation lifts

an independent reals is only to be explained by the selfcleavage and self-contradictoriness of this secular basis.
The latter must itself, therefore, first be understood in its
contradiction and then, by the removal of the contradiction,
revolutionised in practice. Thus, for instance, once the
carthly family is discovered to be the secret of the holy
family, the former must them itself be theoretically criticised and radically changed in practice.

- V. Four-back, not satisfied with abstract thinking, appeals to sensuous contemplation, but he does not conceive sensuousness as a practical, human-sensuous activity.
- VI. Four-back resolves the religious essence into the human. But the human essence is no abstraction inerest in each single individual. In its reality it is the ensemble of the social relations. Four-back, who does not attempt the criticism of this real essence, is consequently compelled: 1) to abstract from the historical process and to fix the religious sentiment as something for itself and to presuppose an abstract isolated human individual. 2) The human essence, therefore, can with him be comprehensed only as "goous", as a dumb internal generality which morely naturally unites the many individuals.
- VII. Four-bach, consequently, does not see that the "religious sentiment" is itself a social product, and that the abstract individual whom he analyses belongs in reality to a particular form of society.
- VIII. Social life is essentially practical. All mysteries which misload theory to mysticism find their rational solution in human practice and in the comprehension of this practice.
 - IX. The highest point attained by contemplative materialism, i.e., materialism which does not understand sensuousness as practical activity, is the outlook of single individuals in "civil society".
 - X. The standpoint of the old materialism is "civil society", the standpoint of the new is human society or socialised humanity.
 - XI. The philosophers have only interpreted the world in various ways; the point however is to change it".
 - (97) Engels, Feuerbach, p. 39-40.
 - (98) Marx, letter to Engols, Gesantausgabe, Abteil, II, Bd. 2, p. 533, 1984.

- (99) Marx, letter to Lassale, Selected Correspondence, London, p. 125.
- (100) Marx, letter to Engel, Gesentausgabe, Abteil. II, Ed. 3, p. 396.
- (101) Engels, Neuerbach, p. 52, Footmote.
- (102) Engels, Anti-Dühring, I, preface to II edition, p. xxi.
- (103) Sidney Book : From Begel to Marx, p. 75.
 Thore cannot be a dialectics of nature :

"Upon the foregoing interpretation, the attempt to apply the dialectic to nature must be ruled out as incompatible with a nuturalistic starting point. Marx himself never speaks of a Matur-Malaktik, although he was quite grare that gradual quantitative changes in the fundamental units of physics and chemistry result in qualitative changes, Engels, however, in his Anti-Dibring and in his postburously published manuscript Molektik und Matur openly extends the dislection to natural phononena. His definition of dislectic, however, indicates that he is unaware of the distinctive character of the dislection as opposed to the physical concept of "Change" and the biological concept of "development". "Dialectic", he writes, "is nothing more than the science of universal laws of motion and evolution in nature kuman society and thought". (Anti-Dühring, 12 edit. p. 144) Tractically all of knowledge, therefore, falls within its scope: and every thinker from Thales down could olnim to have in some sames advanced the science of dialoctic. only an idea list can adhere to the distinctive connotation of dialectic expounded above and still believe that nature, independent of men, is an illustration of it.

Saliolog's laws of motion and the life history of an insect have nothing to do with dialoctic except on the assumption that all nature is spirit. Here as elsewhere, Engels allowed more of degel than, as a naturalist, he could properly digest; and one is tempted to say that it kept coming up throughout his work.

Some markists have so generalises the meaning of dialectics that it refers to the sudden emergence of new qualities in any field. Plechanov, e.g., holds that the transition from 9 to 10, or 90 to 100, in the process of counting is evidence of dialectic at work, (Cr. Fundamental Problems of Marxism, English trans. p. 97). Confusion has arised because of the multiple and ambiguous references to the term "Matur-Dialektik". Sometimes it means no more than the common place fact that change is

observable in all fields of thought and activity. Scentimes it moons that overy account of physics must operate with contrasting and complementary principles in order to do justice to the polarities and the oppositions in the structures of nature. But in those senses it is foreign to Mark's conseption of dislectic. which is historical and restricted only to a consideration of the causes, nature and effects of laman activity that destroys the equilibrium of a polarised society and redoternines the direction of the movement of society. In this last sense, the dialectic is the principle of social activity, its medium is the class struggle. There is no heed to show that there are sudden loops and jumps in nature to Justify revolution in society. Thether natural phenomena are continuous at all points or discontinuous at some is an empiracal question. It is strictly irrelevant to the solution of any social problem. The mistaken conception that they are relevant is bound up with a commete confusion between the truth-character of the findings of science and the social motives and conditions of scientific investigations. The results of physics may be used by the bourgeoisie but there is no such thing as bourgeois physics. To real the class struggle back into science and nature is to imply that all nature is conscious -- a proposition which only an Magolian idealist can accepta.

In an article in The Markist Juarterly, Apri-Jume, 1937, p. 253-253, Mr. Mock gives an analysis of a Dialectic of Nature. Though it is not done exactly along the lines of the analysis we shall make in the final part of this dissertation, the analysis is logical and worth while. He concludes his article with what he considers to be the only possible application of Dialectic to Mature: It has use as a scientific method:

"If we have established enything so far, we have shown that the only sense in which the dislection is applicable to nature is the sense in which it is an abbreviated synonym for scientific method. And as a confirmation of this conclusion we need only ask of those who deny it, to point to a single case of knowledge discovered by, or explicable in terms of, the dislectic method which cannot be more simply cortified by the canons of scientific method. As an additional task we might challenge them to trunslate the finding of modern science into the language of dislectic and compare the attructure of propositions so derived with those of science in respect to verificability, simplicity, systematic connection, and fruitfulness for the equisition of new knowledge. If the fundamental laws of dislectic, analyzed in the preceding section, are held to be integral to the conception of dislectic,

then it is doubtful whether any translation can be made, for we have ween that these laws violate the fundamental principles of logic, scientific method, and in places, of coherent syntam.

to have reaning and validity only when it is understood to be synonomyous with accentific method; that since its traditional formulation is burdened with many misleading and mistaken exaceptions, it would be more conductes to clear thinking if the phrase were dropped; that its retention engenders a mystical philosophy of nature, propers the way for a doctrine of "two truths", one ordinary, scientific and profess, the other eseteric, "dialectical" and higher; and finally, that it encourages an attitude which easily leads to consorable, dictation, and persecution of scientists.

- (106) Empols, Biolectics of Esture, p. 26.
- (105) Ibid., p. 6.
- (108) Ibid., p. 15-14.
- (107) Engels. Temorbach, p. 56:

 "But above all, there are three great discoveries which had enabled our knowledge of the inter-connection of natural processes to advance by leaps and bounds: first, the discovery of the cell as the unity from whose multiplication and differentiation

the whole plant and smisel body develops.....

Joconsi, the trunsformation of energy, which has demonstrated that all the so-called forces operative in the first instance in inorganic nature -- mechanical force and its complement socalled potential energy, Best, radiation (light or radiant heat). electricity, nagmetism and chemical mergy --- are different forms of menifestation of universal notion, which pass into one another in definite proportions so that in place of a certain quantity of the one which disappears, a certain quantity of another makes its appearance and thus the whole motion of nature is reduced to this incessant process of transformation from one form into enother. Finally, the proof which Darwin first developed in connected form that the stock of organic products of nature surrounding us today, including mankind, is the result of a long process of evolution from a fow original unicellular gorms. and that these again have arisen from protopless or albumon which came into existence by chemical means.

Cf. Also: Dialectics of Mature, Engels, p. 206; p. 165, Fewerbach, p. 54.

(108) Engols Fouerbach, p. 56.

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(109) Stalin has surmed up the differences between the two ways of thinking. Stalin: Dialectical and His materialism, p. 7.

The essence of the dialectical method:

"The principal features of the Marxist dialectical method are as follows :

as an accidental agglemeration of things, of phenomena, unconnected with, isolated from, and independent of, each other, but as a connected and integral whole, in which things, phenomena, are organically connected with, dependent on, and determined by each other.

The dialectical method therefore holds that no phenomenon in nature can be understood if taken by itself, isolated from surrounding phenomena, insamuch as any phenomenon in any realm of nature may become meaningless to us if it is not considered in connection with the surrounding conditions, but diversed from them; and that, vice versa, any phenomenon can be understood and explained if considered in its inseparable connection with surrounding phenomena, as one conditioned by surrounding phenomena.

b) Contrary to metaphysics, dislectics holds that nature is not a state of rest and immedility, stagnation and immutability, but a state of continuous movement and change, of continuous renewal and development, where scaething is always arising and developing, and something always disintegrating and dying sway.

The dialectical method therefore requires that phenomena should be considered not only from the standpoint of their interconnection and interdependence, but also from the stand point of their movement, their change, their development, their coming into being and going out of being.

The dislectical method regards as important primerily not that which at the given moment seems to be durable and jet is already beginning to die away, but that which is arising and developing, even though at the given moment it may appear to be not durable, for the dislectical method considers invincible only that which is arising and developing.....

c) Contrary to metaphysics, dialectics does not regard the process of development as a simple process of growth, where quantitative changes do not lead to qualitative changes, but as a development which passes from insignificant and imperceptible

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quantitative changes to open, fundamental changes, to qualitative changes; a development in which the qualitative changes occur not gradually, but rapidly and abruptly, taking the form of a loap from one state to another; they occur not accidentally got as the natural result of an accurulation of imperceptible and gradual quantitative changes.

The dialectical method therefore holds that the process of development should be understood not as movement in a circle, not as a simple repetition of what has already occurred, but as an operard and upward movement, as a transition from an old qualitative state to a new qualitative state, as a development from the simple to the complex, from the lower to the higher.

d) Contrary to metaphysics, dialectics holds that internal contradictions are inherent in all things and phenomena of nature, for they all have their negative and positive sides, a past and a future, something dying every and something developing; and that the struggle between these opposites, the struggle between the old end the new, between that which is dying away and that which is being born, between that which is disappearing and that which is developing, constitutes the internal content of the process of development, the internal content of the transformation of quantitative changes into qualitative changes.

The dialectical method therefore holds that the process of development from the lower to the higher takes place not as a harmonious unfolding of phenomena, but as a disclosure of the contradictions inherent in things and phenomena, as a "struggle" of opposite tendencies which operate on the basis of these contradictions.

In its proper meaning' Lenin says, 'dislectics is the study of the contradiction within the very essence of things.'
(Philosophical notebooks, Vol I, p. 263 of Russian edition).

- (110) Ingels, Anti-Dühring, I. p. 11.
- (111) Lenin, On dislectics, Vol. XI, Schooted Sorks, p. 81.
- (112) Engels, Anti-Dühring I, p. 181; of also Plekanov, Questions fordementales, p. 98.
- (113) Edoratsky, Dialoctical Materialism, p. 28.
- (114) Engels, Anti-Dühring, p. 188;

 of. also: Engels, Dialectics of nature, p. 164:

 "Already no physiology is held to be scientific if it does not consider death as an essential factor of life (Note: Negel, Pacy. I, p. 152-5). The negation of life as being essentially contained in life itself, so that life is always thought of in

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relation to its necessary result, death, which is always contained in it in germ. The dialectical conception of life is nothing more than this. But for anyone who has once understood this, all talk of the immertality of the soul is done may with... Here therefore by means of dialectics, simply becoming clear about the nature of life and death suffices to abolish an ancient superstitution. Living means dying".

- (115) Engels, Anti-Duhring, p. 74: "Le mouvement est le mode d'existence, la manière d'être de la matière. Jammis et mulle part, il n'y a eu et il ne peut y avoir de matière sans mouvement. Mouvement dans l'espace céleste, mouvement mécanique de masses plus petites sur chacun des corps edlestes vibration moléculaire sous forme de chaleur, de courant électrique ou mathétique, analyse et synthèse chimiques, vie organique, o'est dans l'une ou l'autre de ces formes du mouvement ou dans plusieurs en même temps que se trouve chaque stome de matière dans le monde à chaque instant donné. Tout repos, tout équilibre n'est que relatif, et n'a de sens que par rapport à telle ou telle forme déterminée de nouvement. Un corps pout, par example, se trouver à la surface de la terre en équilibre mécanique, être su point de vue mécanique en état de ropes : cola ne l'empèche aucumement de participer au mouvement de la terre ainsi qu'à celui du système solaire tout entier, pas plus que cela n'empêche ses particules physiques les plus petites d'accomplir les vibrations conditionnées par su température, ou ses atomes matériels d'effectuer un processus chimique. La matière sans mouvement est tout sussi inconcevable que le mouvement sans natière. Le mouvement ne peut par conséquent, pas plus être créé ou détruit que la matière elle-come, ce que l'ancienne philosophie (Descartes) exprime en disent que la quantité de mouvement existent dans le monde est toujours constants".
- (116) Engels, Dislection of Mature, p. 125.
- (117) Ibid., p. 251.
- (118) Engole, Fourbach, p. 54: cf. also Lenin, Depirio-Critician, Vol. XI of Selected Works, p. 216 ssq.
- (119) Regel, The Science of Logic, p. 284, n. 146:
 "When narrowly examined, free choice is seen to be a
 contradiction, to this extent that its form and content stand in
 antithesis. The matter of choice is given, and known as a
 content of dependent not on the will itself, but on cutward
 circumstances. In reference to such a given content, freedom

lies only in the form of choosing, which, as it is only a freedom in form, may consequently be regarded as freedom only in supposition. On an ultimate analysis it will be seen that the same outwordness of circumstances, on which is founded the content that the will finis to its hand, can alone account for the will giving its decision for the one and not the other of the two alternatives.

Thid., p. 282, n. 158:

"Mocessity, indeed qua necessity is far from being freedom yet freedom pre-supposes necessity, and contains it as an unsubstantial element in itself. A good man is swads that the tenor of his conduct is essentially obligatory and necessary. But this consciousness is so far from making any abstract from his freedom, that without it real and reasonable freedom could not be distinguished from arbitrary choice, —— a freedom which has no reality and is merely potential. Acriminal, when punished, may look upon his punishessent as a restriction of his freedom. Really the punishment is not foreign constraint to which he is subjected, but the manifestation of his own act which he recognises this, he comparts himself as a free man. In short, man is most independent when he knows himself to be determined by the Absolute Idea thoughout.

- (120) Engels, Anti-Dübring, I. p. 128, English Edition.
- "The law of identity in the old metaphysical sense is the fundamental law of the old cutlook: A equals A. Each thing is equal to itself. Everything was permanent, the Solar system, Stars, organisms. This law has been refuted by natural science bit by bit in each separate case, but theoretically it still prevails and is still put forward by the supporters of the old in opposition to the new: a thing cannot simultaneously be itself and semething else. And yet the fact that true, concrete identity includes difference, change, has recently been shown in detail by natural science. Abstract identity, like all metaphysical categories, suffice for everyday use, where small scale conditions or brief periods of time are in question; the limits within which it is usable differ in almost every case and are determined by the nature of the object".
- (122) Flekamov, Questions Fondamentales, p. 99.
- (123) Marxists, think they have found in what they call "higher mathematics" a verification of the fundamental law of dialectics, the unity of opposites. Engels compares higher mathematics to simple computation as dialectical logic is compared to Aristotelian logic. The reason for the application of dialectical

principles to mathematics is that higher mathematics, using the principles of calculus, works with progressions towards mathematical infinity. This progression is a movement. Ho movement can be accurately described in terms of Aristotelian logic, for this logic abstracts from movement.

Just as Engels considered real movement in nature a contradiction, so he considers the mathematical movement or progression towards infinity a contradiction. Just as in real movement in Nature he considered the terminus a que to be identical with the terminus ad quen, to be identical because they were found in the one real, concrete being, so here he considers the terminus a que of the mathematical progression towards infinity to be identical with the terminus ad quentical mature such an identification is a contradiction; so it is here.

Engols does not distinguish the real movement of things in Nature from the logical progression towards infinity in mathematics — both are considered equally real, at least for the purposes of exceptifying the dialectical laws. As in Nature there is a real identification and simultaneous presence of contradictory elements, so in the mathematical progression the limit is actually considered to be reached during the progression, and so the terminus a que and the terminus ad quem are simultaneously verified.

In the following quotations the character of mathematical dialectics will be brought out.

Incols, Anti-Daring, p. 207:

"La mathématique élémentaire, la mathématique des grandeurs constantes, se meut dans les cadres de la logique formelle, au moins en général et en gros; la mathématique des grandeurs variables, dont la partie la plus importante est le calcul infinibles informatiques, n'est pas essentiellement autre chose que l'application de la dialectique aux questions mathématiques. La simple précecupation de prouver s'efface ici décidément devant les applications multiples de la méthode à de nouveaux domaines de recherche".

Ibid., p. 188 :

Nous avons déjà noté que les nathématiques supérieures ont su nombre de leurs bases fondamentales la contradiction selon lequelle droite et courbe doivent être en certains cas identiques. Elles réalisent cette autre contradiction que des lignes qui se coupent sous nos yeux doivent pourtant, des cinq ou six contiquètres à partir de leur intersection, passer pour des parallèles,

pour des lignes qui, même prolongées à l'infini, me peuvent se couper. Et pourtant les nathématiques supérioures fournissent avec ces contradictions et avec d'entres encore plus fortes, des résultats non seulement eracts mais tout à fait inpossibles à atteindre pour les mathématiques inférieures.

Enis celles-ci mese fournissent de des contradictions. Par exemple, c'est une contradiction qu'une racine de A doive être une puissance de a : et pourtant Ag VA. C'est une contradiction qu'une grandour négative soit le carré d'olle-même, donve un carré positif. La racine carrée de moine un est donc, non soulement une contradiction, mais même une contradiction absurde, un véritable non-sons. Et pourtant V-1 est de beuncoup de cas le résultat nécessaire d'opérations mathématiques exactes; bien plus, ou en sermient les mathématiques, les inférieures aussi bien que les supérieures, s'il lour était in-terdit d'opérer avec V-1.

los mathematiques elles-mêmes pénutrent, en opérant sur les grundours variables, sur le terrain dialectique, et chose el milificative, c'est un philosophe dialecticien, l'escartes, qui a introduit ce progrès chez elles. Ce que la mathématique des grandeurs variables est à celle des grandeurs inveriables la consée dialectique l'est, en somme, à la pensée métophysique. Ce qui n'empêche aucumement la grande majorité des mathématiciens de ne recommaître la légitimité de la dialectique que dans le domaine mathématique, et un assez bon nombre d'entre oux de se cervir des mithématique, et un assez bon nombre d'entre oux de se cervir des mithématique, et un assez bon nombre d'entre oux de se cervir des mithématique, et un assez bon nombre d'entre oux de se cervir des mithématiques per vois dialectique pour opérer ensuite selon la vieille manière bornée et métaphysique".

in example from another Markist: Plokanov, Essays in the History of Materialism, p. 160:

"In lower mathematics conceptions are strictly limited and separated from one another as though by an abyse : a polygon is a polygon and nothing else : a circle is a circle and nothing else. But even in plane geometry we are compelled to apply the so-called mothed of limits which shakes our respected and isnovable conceptions and in the most astonishing way brings them into proximity with one another. How can it be proved that the area of a circle is equal to the product of the circumference and half the radius. It is said : the difference between the area of a true polygon inscribed in a circle and the area of this circle can be used an arbitrarily small quantity on condition that the number of its sides is sufficiently increased. If the area of the circle, the circumference, the diameter of a true polygon inscribed in a circle are consecutively known by, as P. and r, then a equals p times & r; while a and p times & r are quantities which change together with the number of sides but are

clumps equal between themselves; their limits will therefore also be equal, if we consecutively name the area, circumference and radius of a circle A, C and A. then A is the limit of a : C the limit of p; and A the limit of r; therefore A equals C times by. Thus the polygen is transformed into a circle; so the circle is examined in the process of its becoming. This already represents a remarkable revolution in mathematical conceptions. Higher analysis takes this revolution for its starting point. Differential calculus has to do with infinitely small quantities or, in Esgels' rords, "It has to do with quantities which are in the process of disappearing, not before their disappearance, for then they would be finite quantities, and not after their disappearance, for then they would not emist".

Plekanov has quoted from Regel's Rissenschaft der logal, Rirnburg, 1812, 1, Ed. 1. p. 42.

The error of the Carrists consists in presupposing that the limit of a variable can actually be reached, and that the infinitely small is a pure actuality or a pure negation.

- (124) Tellador, Totaphysical Toundations of Communism, p. 60.
- (125) Moratalo, Dialectical laterialism, p. 26.

(126) Papels, Anti-Miring, p. 204 :

The Timontro simplement et résure ici brièvement cosi.

To mème que la petito industrie engemire par sa propre évolution les conditions de sa destruction, c'est-à-dire, de l'empropriation des petits propriétaires, et cela nécessairement de mème majorad'uni le mode de production capitaliste a lui-meme enpondré les conditions matérielles dont 11 doit mourir. Ce processus est un processus historique, et s'il est en mème tamps un processus dialectique, ce n'est pas la faute de larre, quelque desagréable que cela soit à 14. Pibring.

C'est soulement après avoir send à bonse fin su désembleation historique et économique que Herz continue: "Le système d'appropriation capitaliste découlant du mode de production capitame liste, et par suite la propriété privée capitaliste, constituent la promière négation de la propriété privée individuelle fondée sur le travail personnel. Neis la fatalité d'un procès naturel, la production capitaliste ongendre su propre négation. C'est la négation de la négation.

Ainsi quand Herr qualifie cette suite de faits de 'nigation de la négation', il no songe pas à en prouver par ce negen la nécessité historique. C'est le contraire : quand il a prouvé par l'histoire qu'en fait la chose s'est en partie produite et en partio doit se produire emere. Il le désigne en tême tamps came un phénomème qui s'accomplit solon une loi dinloctique diterminée. C'est tout".

02. TALL. p. 214 seq.

- (127) Fold., p. 213.
- (120) 3244. 9. 200.
- (120) Ibid., p. 220.
- (180) Angols, socialism : <u>Utopism and . clentifile</u>, International Publishers, p. 40.
- (181) hypolo, Asti-Dühring, p. 54. International Millishers dition of also: Momento, Assays in Mistory of Materialism, p. 176 Lemin, Mari Marx : Dislection, Vol. XI, p. 16.
- (132) logel, Science of Logic, 7. 313-314, 5. 1. Elemberg, 1012.

 "paral on vert so reprisenter l'apparition on la disparition de qualque chose, on se les représente ordinairement comme
 une apparation on une disparition praduelles. Pourtant les
 transformations de l'être sont non soulement le passage d'une
 quantité à une autre, mais aussi le passage de la quantité à la
 qualité et inversement, passage qui, entraînant la substitution
 d'un phésomèse à un autre, est une rupture de la progressivité....
 - The base do he destrine de la progressivité de trouve l'idée que de qui surgit existe déjà effectivement, et reste imperceptible d'un phinomère. De mère, quand en parle de disparition gradualle d'un phinomère, en se représente que cette disparition est un fait accompli, et que le phénomère qui prond la place du phénomère précédent existe déjà, mais qu'ils qu'une sent encere perceptibles ni l'un ni l'autre... impliquer l'experition ou la disparition d'un phénomene denne par la propresivité de la transformation, c'est teut resener à une taute-legie fastidieure, enr c'est considérer comme pret d'evence (c'est-à-dire comme déjà apparaitre ou de disparaître. (unted by Plekanov, questions fondamentales, p. 02.
- (185) ingels, inti-Muring, I. . 94.
- (184) Empols, Malectics of Mature, p. 18-17.
- (135) Perk, Pitique of political Recording Telected eris 1, p. 356.
- (136) Ingels, Penerbach, p. 58.

- (137) <u>Thid.</u> . 58-19.
- (138) Aristotle, Catogories, c. 10, 11 b 18.
- (139) <u>1816.</u>, c. 10, 11 b, 19.
- (140) The erder of opposition according to being : Cajetan in Praedicementa : de postpraedicementis, p. 85 :

The order in ordine entium collegandes sunt, die contrarius orde est quentam relativas oppositioni rimus debetur locus, contrarias secunius, privativas tertius et contradictorias
quartus; et ratio est quia in his quas imperfectionem important,
exposite ordine actem itur magis et minus expusa in ille 3 mere
et in penere entis, in ille siquides genere attenditur magis et
minus secundum accessum ad sussam illius generis vel quod idem
est secundum anioram recessum ab opposite. In genere autem entis
extenditur magis secundum minurem recessum ab entis positione,
ita quod illud est perfectius quod nimus ab entis positione receellt, verbi pratia infirmatas ques imperfectionem somat, duplimiter cellur diel potest vel in genere infirmitatis, et ele illa
erit exfectior infirmitas, ques magis appropinquat morti seu
magis recedit a semitate, vel in enere entis, et ale infirmitas
minus recettes semitatis perfectior est.

Constat autem qued oppositio in ellastogia malorem est, sieut nen ens et distinctio ut ex oppositis corum apparent, ecilicet convenientia et unitate quae in coordinatione benerum munt : et ideo consequent est qued quante aliqua oppositio magis recedit ab enti positione, posteriorem inter entis locum teneat, et ex quae minus entitatis removet, priorem locum estiment. Clarum vero est qued convenientia ema pomit, sieut et unum case. Elarum vero est qued quanto alique oppositio minus convenientiae habet, tamto magis ab ente recedit; ac per hoc contradictio ultumum entium enter oppositiones erit et aliae praecodent ignam accundum recessum minorem a conventia, qui supra declaratum ent.

(141) Tajotan in postpreediosemete, p. 34:

Circa illud verban "quadrupliciter opponi dicitur" advertendum est quad sufficient ratio memeri oppositionen habetur en hec quad oppositio sut strenditur inter ens et non ens, sut inter entie. Si prime mode dupliciter contingit vel inter ens et non ens in tali subjecto, et sic est privativa oppositio. Si recunio mode dupliciter etism: vel inter entia expelientia se mutuo ab ecdem subjecto et sic est contrarietas; vel inter entia ad invicem contraposita, et sic est relativa oppositio.

Circa ordinan harm oppositions notandum est quoi dupli-

citer ordo inter eas considerari potest, primo in latitudine oppositionis, secundo in latitudine entis. Si ordinandes sunt in ordine oppositionum, sie contradictio primum tenet locum, doindo privatio, tertio contrarietas, et ultimo relativa oppositio remanet, quia tanto priorem inter oppositionem locum obtinet oppositio quanto mimis frigoria compatitur, et univercalifor quanto mimus umm contromum pompatitur aliquid alterius, tento magis perfectius secundum illud est. Constat autem contradictionis extrema in mullo convenire, quia alterum ema, alterum mihil est. Frivative sutem opposita etsi in mullo formaliter convenient, in subjecti tamen positione conveniunt quenium utrumque corum ens ponit, formaliter illius generis tortium merito sidi locum vindicant. Relative autom opposita ultimo restant, quoniem in genere formaliter conveniunt, utpote naturas positivas illius dicentia, nec se ex hoc qued relative opposita sunt expellunt, ut infra patebit, sed quia opposita, id est contraposita, sunt inter opposita numerantur".

- (162) ristotle, dategories c. 7, 6 a 35.
- (163) <u>Did.</u>, c. 10, 11 b 25.
- (164) it. Thomas de Potentia, q. 7, art. 8, ad 4:

 "Ad quartum dicendum quod oppositio relationis in duobus
 differt ab aliis oppositionibus: quorum primum est quod in
 aliis oppositis unum dicitur alteri opponi, in quantum ipsum
 removet : nogatio enim removet affirmationem, et secundum hoc
 ei oppositur; oppositio vero privationis et habitus et contruriotatis includit oppositionem contradictionis, ut IV Meta.
 dicitur. Hen autem est hoc in relativis".
- (145) Fistotlo, Catagories, c. 7. 7 b 15.
- (146) John of St. Thomas, Logic II, q. 2, art. 1, p. 289 a 15.
- (147) it. Thomas, De Potentia, q. 8, art. 1, ad 15:

 "Dicerdum quod in aliis oppositionibus semper altorum est
 ut imperfectum vel non ens, vel ut habens aliquid de non ento:
 negatio enim est non ens, et privatio est quaedam negatio, et
 duorum contrariorum altorum semper habet aliquid privationis;
 urxio alius oppositiones in Doc esse non pessunt cicut oppositio
 relationis, quae ex neutra parte imperfectionem".
- (148) In the transcendental relationship of matter to form, it seems that the two terms of the relation limit each other, so that it is not true to say that the limitation of the terms of opposition of relation comes only from the definition of the term, and not from a negation imposed on it by its opposite. It is commonly said that form is limited by matter, hence there seems to be a

negation on the part of the matter. This would be valid if the definition of form could abstract from matter, but as a matter of fact it is absolutely impossible to define any natural form except in relation to matter. Every natural form is always a corporeal form by ensence. Therefore the limitation is present in the very definition of natural form. There is a natural limitation on the part of signified matter —— matter under quantity —— according to which the numerically distinct natural forms are limited. The natural forms of one and the same species are limited by the number of quantitative subjects that can receive these forms —— but this is not a limitation of form as form, but only a limitation as to real existence of this form. In other words, there is no essential limitation of form by matter, but only an accidental limitation, i.e., according to existence —— which is accidental.

(149) John S. Thomas, Cursus Philosophicus, Logic II, q. 17, art. 2, p. 578 a 25 :

"Ex his non crit difficile discernere inter relationes secundum dici et secundum esse, reales et rationis. Selativa enim SECUMDUM ESSE et SECUMDUM DICI discriminantur ex ipso exorcitio, quia in relativis secundum esse tota ratio seu exercitium est respicere terminum in ratione puri termini, Exercitium vero seu ratio relationis secundum dici non est pure respicers terminum, sed aliquid aliud exercers, unde sequatur relatio; ideoque dimit bene S. Thomas in II dist., i q. 1, art. 5 ad 6, prime loce positum, qued ista relativa important fundamentum et relationem, relativa vero secundum esse tantum relationem dicunt, quia videlicet relationem dicunt, quia videlicet rolativa secundum dici potius erga germinum se habent fundando relationen quan actu respiciendo, et ideo non in ratione puri termini ipsum respiciunt, sed secundum aliam rationem, puta causes vel effectus sut objecti, aut quid simile. Sumpropter relatio secundum diei in hoc perpetuo distinguitur a relatione secundum esse ex D. Thoma, quod principale significatum relationis secundum dici non est relatio, sed aliquid aliud, ad quod sequitur relatio. Quando autem principale significatum alicuius est rolatio ipsa et non aliquid absolutum, tumo est relatio secundum esse, ut constat ex I, q. 13, art; et in I dest., 30, a; et opusc. 48 tract. de pracdiosment :...

(149) Ex hoc etiam constat, quod relatio transcendentalis, quae non est alia a relatione secundum dici, non importat ex principali significato relationem, sed aliquid absolutum, ad quod sequitur vel sequi potest aliqua relatio. Ham si absolutum non importat, transcendentalis non erit, id est vagans per diverse genera, sed ad unum praedicamentum tantum spectabit. Unde relatio transcendentalis non est forma adveniens subjecto sou rei absolutae,

sed illi imbibita, commotans tamen aliquid extrinsecum, a quo pendet vel circa quod versatur, ut materia ad formum, caput ad capitum, creatura ad Deum, sicque relatic transcendentalis coincidit cum relatione secundum dici. Et male ab aliquibus relatic secundum esse dividitur in transcendentalem et preodicementale, cum transcendentalis sit in ipsa entitate absoluta nec ab cius esse differat, et sic non sit totum sum esse ad aliud, quod requiratur ad relationem secundum esse".

(150) John of St. Thomas, Curs. Phil., Logic II, q. 17, art. 2, p. 679 a 5 :

"Selationes autom roales et rationis, quae divisio solum in relations secundum esse invenitur, discriminantur penes serontism aliquius ex conditionibus requisitis ad relationes rec-Requirement autem quinque conditiones a D. Thoma, Opuso. 48, tract. de Relativis, cap. 1 : dums ex perte subjecti, dumo ex parte termini, una ex parte relatorum. Ex parte subjecti, quod subjectum sit ens reals et fundamentum seu rationem fundendi roalem habeat. Ex parte termini, quod terminus sit res aliqua realis et realiter existens, et secundo, quod sit distinota realiter ab alio extremo. Ex parte vero relativorum. quod sint ciusden ordinis, defectu quius Dei ad orenturam non est relatio realis nec mensurae ad mensuratum, si sit diversi ordinis ... Formaliter tamen et principaliter reducitur tota differentia inter relationem realem et rationis, quod relatio realis habot fundamentum reals cum co-existentia termini, rolatio rationis ceret fundamento, ut ex D. Thoma sumitur, I ad Annibaldum, dist. 30. quees, unica. art. 1 ... Ad hoo ut relatio aliqua sit praedicamentalis, requiritur, quod habest illas conditiones, quibus distinguatur a relatione rationis et transcondontali sive secundum dioi, ideoque definitur relatio praedicamontalis, quod sit formal realis, cuius totum esse est ad aliud. Por primem particulam distinguitur a relatione rationos, quae roalis forma non est, per secundum a relatione transcendentali et quelibet absolute, cuius totum esse non est ad aliud, cum in so stiam absolutum aliquid sit. Colliguatur vero tres conditiones relationis praedicementalis : Prime, quod sit relatio secundum esse; secunda, quod sit realis, ubi includimus comes conditiones requisitas ad relationem realem; tertia, quod sit finita".

- (151) Babin, Theory of Opposition in Aristotle, p. 20.
- (152) Aristotle, Metaphysics V, c. 10, 1018 a 20;
 "The term 'opposite' is applied to contradictories, and to contraries, and to relative terms, and to privation and possession, and to the extremes from which and into which generation and dissolution take place; and the attributes that cannot be

present at the same time in that which is receptive of both, are said to be opposed — either themselves or their constituents. Gray and white colour do not belong at the same time to the same thing; hence their constituents are opposed.

The term 'contrary' is applied 1) to those attributes differing in genus which cannot belong at the same time to the same subject, 2) to the most different of the things in the same genus, 8) to the most different of the attributes in the same recipient subject, 4) to the most different of the things that fall under the same faculty, 5) to the things whose difference is greatest either absolutely or in genus or in species.

(183) Each contrary has only one contrary, because the contraries are those terms which are separated by the greatest difference. But contraries admit of degrees in between these extremes, for they have a medium, since they are generically the same, though not specifically.

Aristotle, Metaphysics X, c. 4, 1065 a 5 :

"Since things which differ may differ from one another more or loss, there is also a greatest difference, and this I call contrariety. That contrariety is the greatest difference is made clear by induction. For things which differ in genus have no way to one another, but are too far distant and are not comparable; and for things that differ in species the extremes from which generation takes place are the contraries, and the distance between extremes — and therefore that between the contraries —— is the greatest....

This being so, it is clear that one thing cannot have nore than one contrary (for neither can there be anything more extreme than the extreme, nor can there be more than two extremes for the one interval), and, to put the matter generally, this is clear if contrariety is a difference, and if difference, and therefore also the complete difference, must be between two things.

And the other occasionly accepted definitions are also necessarily true. For not only is 1) the complete difference the greatest difference (for we can get no difference beyond it of things differing either in genus or in species; for it has been shown that there is no 'difference' Detween anything and the things outside its genus, and emong the things which differ in species the complete difference is the greatest); but also 2) the things in the same genus which differ most are contrary (for the complete difference is the greatest difference between species of the same genus); and 3) the things in the same receptive material which differ most are contrary (for the matter is the

same for contraries); and 4) of the things which fall under the same faculty the most different are contrary (for one science deals with one class of things, and in these the complete difference is the greatest)".

- (154) St. Thomas, Comm. in V Mota., no. 925:

 "Doinds cum dicit "contraria dicuntur", hie estendit quot modis contraria dicuntur; et circa hos tria facit. Quorum primum est, quod assignat modos, quibus aliqua principaliter dicuntur contraria; inter quos pomit unum primum improprium; sollicet quod aliqua dicuntur contraria, quae non possunt simul ad esse sidem, licet different secundum genus; propria enim contraria sunt ques sunt unius generis, sicut si dicerotur, quod gravitas et motus circularis non sunt in sodem subisoto".
- (155) Aristotle, Categories, c. XI. 14 a 15 :

 "It is plain that contrary attributes must needs be present in subject which belong to the same species or gamus. Disease and health require as their subject the body of an animal; white sud black require a body, without further qualification; justice and injustice require as their subject the human soul".

Cf. also Cajetan in Post. Fraed. p. 102:

"His ponitur quinta conditio contrariorum talis; cunia contraria aut sunt in ecdem genere aut in contrariis generibus, aut sunt genera contrariorum; et declarat singulas particular singulis exceplis, ut clare patet. Loquitur autom non de genere physico, id est sublecto, de quo locutus est in quarta conditione, sod de genere logico, id est praedicabili in quid.

and vero dixit : bomm et malum cose genera centrariorum. ut 3. Thomas in I quae. de Maio ex Simplicio refert, quadruplielter expenitur. Primo a quibusdan sio : bomum et malum sunt menera contrariorum soilicet virtutis et vitii, et non sunt in genere, scilicet contrario, id est non sunt in contrariis geperfine, sed in qualitate. Sed hace expositio non videtur consome textui, in quo fiunt tria membra, quan tertium coincideret cum primo misi aliqua limitatio ibi addatur. Propter quod Forphyrius distinct contraria in univoca et acquivoca, et dixit univoca aut esse in codem genero proximo, ut album et nigrum sub colore, aut esse in contrariis generibus proximis, ut castitas et impulicitia sub virtute et vitio, cum tamen sint in uno genero remoto, scilicet prima specio qualitatia. Acquivoca vero ned esse in uno genere nec in pluribus, ded comic genera dircuire, et propteren aliorum gonera esse eo modo quo transcendentia genera vocantur; et hace sunt bomum et malum."

(156) Aristotle, Metaphysics V, c. 10, 1018 a 30.

(157) Aristotlo, Categorios, c. 11, 14 a 15.

insherion: The contrary of a good is an evil is shown by insherion: The contrary of health is desease, of courage, comardice, and so on. But the contrary of an evil is sometimes a good, sometimes an evil. For defect, which is an evil, has excess for its contrary, this also being an evil, and the mean, which is a good, is equally the contrary of the one and of the other. It is only in a few cases, hasever, that we see instances of this; in most, the contrary of an evil is a good.

In the case of contraries, it is not always necessary that if one quists the other should also exist: for if all become healthy there will be health and no desease, and again, if everything turns white, there will be white, but no black. Again, since the fact that Secrates is ill is the contrary of the fact that Secrates is well, and two contrary conditions cannot both obtain in one and the same individual at the same time, both those contrarios could not exist at once : for if that Secrates was well was a fact, then that Secrates was ill could not possibly be one.

It is plain that contrary attributes must needs be present in subject which belong to the same species or genus. Discuss and health require as their subject the body of an animal; white and black require a body, without further qualification; justice and injustice require as their subject the human soul.

Horover, it is necessary that pairs of contrarios should in all cases either belong to the same genus or belong to contrary genera or be themselves genera. White and black belong to the same genus, colour; justice and injustice, to contrary genera, virtue and vice, while good and evil do not belong to genera, but are themselves actual genera, with terms under them.

"Since contraries admit of an intermediate and in nowe cases have it, intermediates must be composed of the contraries. For 1) all intermediates are in the same genus as the things between which they stand. For we call those things intermediates, into which that which changes must change first; e.g. if we were to pass from the highest string to the lowest by the smallest intervals, we should come scener to the intermediate notes, and in colours if we were to pass from white to black, we should come scener to change if we were to pass from white to black, we should come scener to crimeon and gray than to black; and similarly in all other cases. But to change from one genus to another genus is not possible except in an incidental way, as from colour to figure. Intermediates, then, must be in the same genus both as one another and as the things they stand between.

But 2) all intermediates stand between opposites of some

kind; for only between these can change take place in virtue of their sam nature (so that an intermediate is impossible between things which are not opposite; for them there would be change which was not from one opposite towards the other). Of opposites, contradictories admit of no middle term; for this is what contradiction is — an opposition, one or other side of which must attach to anything whatever, i.e. which has no intermediate. Of other opposites, some are relative, others privative, others contrary. Of relative terms, those which are not contrary have no intermediate; the reason is that they are not in the same genus. For what intermediate could there be between knowledge, and knowledge? But between great and small there is one.

57 If intermediates are in the same genus, as has been shows, and stard between contraries, they must be composed of these contraries. For either there will be a genus including the contraries or there will be none. And if a) there is to be a genus in such a way that it is consthing prior to the contraries, the differenties which constituted the contrary species of a comus will be contraries prior to the species; for species are composed of the gomes and the differenties ... But, again, the species which differ contrarywise are the more truly contrary species. And the other species, i.e., the intermediate, must be composed of their genus and their differenties. (E.g. all colours which are between white and black must be said to be composed of the comus, i.e. colour, and cortain differenties. But these differentias will not be the contraries that are primary; otherwise every colour would be either white or black. They are different, them, from the primary contraries; and therefore they will be between the primary contraries ...

All the other intermediates also, therefore, are composite; for that which has more of a quality than one thing and less that another is compounded somehow out of the things than which it is said to have more and less respectively of the quality. In since there are no other things prior to the contrarios and homogeneous with the intermediates, all intermediates must be compounded out of the contraries. Therefore also all the inferior classes, both the contraries and their intermediates, will be compounded out of the primary contraries. Clearly then, intermediates are 1) all in the same games, and 2) intermediate between contraries, and 3) all compounded out of the contraries.

- (159) Aristotle, Categories, c. 3, 10 b 12-25.
- (160) Thid., c. 9, 11 b 1.
- (161) John of St. Thomas, Cur. Phil., Vol. II, p. 810 a 35 :
 "Ut autem ex his constare possit, quomodo in formis substantialibus non inveniatur contrariotas proprie dicta, est no-

tendum, quod ista transmitatio est duplex : alia sine motu, sicut quae fit in materia prima, ut est pura potentia ad formas substantiales ;alia cum proprio motu, quando scilicet potest inveniri inter formam et formam aliqua continuatio, vol secundum magis et minus vol secundum additionem aut minorationem formae, quae illam variare facit. In formis enim substantialibus fit variatio sicut in mumeria, in quibus quaelibet additio variat speciem, in qualitatibus autem contrariis et physicis fit variatic ad modum continuitatis. Ex eo enim una forma transmitatur in aliam, quia aliqua additione vol deminutione fit alia, sicut album degenerando in pallidum et in viride fit nigrum et calidum diminuendo gradus caloris fit tepidum et transit in frigidum.

Prima ergo transmitatio non pervenit ad contrarictaten propriam. sed est principium contrarietatis, quia quasiibet forma substantialis habet adjunctem privationem alterius, privatio autem est principium contrarietatis, et sie principia naturalia dicuntur ospe contraria contrarietate incheata, quee est privatio et forme, ut diximus I Phy. q. 2, art. 2, 44 ad 1. Socunda vero contrarietas est formalis et proprie. Ratio est, quie prime transmutatio non fit secundum distantian determinatan vicendam per motiva et per modum culusdam continuitatis, sed per modum mutationis. It has ideo est, quie queslibet forme substantialis hoc ipso, quod substantialis est, dat primum esse, quod est esse simplicitor, ot sic excludit alian per incompassibilitaton, quia repugnat in codem subjects dues formes esse acques primes et dere primm esse, quod est esse simpliciter. Et sio non opponuntur penes aliquem distantiam maximum et positivam sub codem genere. sod penes primum et totale esse, et non primum seu non totale, intor quae non est latitudo neo distantia divisibilis, sed indivisibilis oppositio".

Cf. also : Aristotle Metaphysics, XI, c. 11-12, 1068 a 1.

(162) Aristotle, Categories, c. 6, 5 b 30.

(165) John of St. Thomas, Curs. Phil., Vol. II, p. 612:

"quando ergo primo modo se habet contrarietas in formas cum
privatio seu explusio alterius sit effectus secundarius post incormationem formae, non repugnat de petentia absoluta impediri,
quia est privatio secundario consecuta, non pertinens ad essentialem informationem formae, sicut etiam stat bene duas quantitates pemetrari et non se expellere a loce, quia expulsio illa
cet effectus secundarius quantitatis. Deinde, nisi aliud obstet,
bene peterit talis effectus impediri in formas contrariis, etiam
si sit privativus et expulsivus alterius formae, quia videlicet
ipea privatio formae non est requisita antecedenter et ex parte
subjecti ad hoc, ut aliud contrarium recipiat. Ratio huius est.

quie comis expulsio aliquorum a subiecte mascitur ex alique, qued per se est expulsio. Per se autem prime expulsio est inter esse et non esse, quae est prime ratio comium oppositionum, non ex alique praesupposite consecuta, et ideo contradictoria oppositio est radix et principium ceterarum oppositionum. Ergo in his, in quibus per se prime et essentialiter invenitur ipsa ratio exclusionis, nullo modo potest etiam de potentia absoluta esse coniunctio, eo qued essentia unius in ipsa exclusione consistit. Ubi autem unum essentialiter non est exclusio alterius, peterit unum esse cum alio etiam si naturaliter sequatur ad alterum ad modum proprise passionis, quia potest impediri ista resultantia. Si sutem antecedenter praerequiratur ex parto subjecti negatio alicuius, ut recipiatur forma opposita, non peterit tuno coniungi in tali subjecto, quia ipsa negatio, quae praessupponitur, essentialiter est exclusio.

- (164) John of St. Thomas, Curs. Phil., Vol. II, p. 615 a 44 : "In gradibus remissis naturalitar possunt esse qualitates contrariae si alias inter illas non sit essentialis oppositio et presrequisita ex parte subjecti ut recipiatur quacilibet illarum formarum. Sumitur base complusio ex Dive Thoma, q. 8 de Voritate, art. 14 ubi inquit, quod quando sint formac in fieri, possunt esse simul, ut dum eliquis delabatur, adhue est in nigrading. Dum autom est in gradibus remissis, adhuc est in fieri. quia adhuo deest aliquid acquirendum. E I pars, q. 76, art. 4, inquit, quod in mixto sunt qualitates contrariae; constat autom illas esse temperatas et remissas. Ratio autem sumitur a priori et a posteriori; a priori quia istae formee habent latitudinem in orescendo, ergo etiam in expellendo. Ergo aliquid contrariae formae potest esse, antequam alia opposita sit totaliter expulsa, et sie nisi aliquid obstet ex parte subjecti per modum incapacitatis et repugnantise, ut diximus, quantum est ex vi formae habentis latitudinen, non repugnat, quod contreria forma paulatim et cum aliqua latitudine entret, et sie non totalitor excludat aliam, sed in alique gradu cum illa compatiatur".
- Respondetur, quod contraria includent oppositionem contradictiorism aut privativam non prime et per se, sed consecutive et secundario, quia sequitur ex informatione unius exclusio alterius. Et ad probationem ex Aristotele (lata. IV textu 27 : quod cum fiori non possit, quod contradictoria de codem simil simi vera, perspicuam est neque contraria simul in codem esse posse). Respondetur, quod intelligitur de contraria secundam effectum secundarium, qui est expulsio secundam quem beme sequitur, quod non possunt contraria simul incase, quia inclument in se contradictoria, mediate scilicet et secundario, non primario, ut dictum est. Unde subdit ibi Aristoteles, "quod impossibile"

est contreria simul cidem inesse, sed aut embo secundum aliquid, aut alterum secundum aliquid, alterum simpliciter". Fatetur ergo, quod secundum aliquid, id est secundum gradus remissos, possunt simul inesse, licet non perfecte et secundum gradus inetenses".

(166) The example preferred by the Harrists as testimony of the identification of contraries in nature is movement. But even Aristotelians admit the union of contraries in the same subject when it is question of movement: in fact, that is a descriptive definition of movement. But this is not an identification of the contraries themselves. It is impossible to classify motion, because it is an imperfect state of actuality; and only what is in act purely and simply can be accurately classified, or what is simple potency to act —— in which case the potency is classified by reference to the act.

Aristotle, Physics III, c. 2, 201 b 25 t "The reason why they put motion into these genera is that it is thought to be something indefinite, and the principles in the second column are indefinite because they are privative: non of them is either 'this' or 'such' or comes under any of the other modes of predication. The reason in turn why motion is thought to be indefinite is that it cannot be classed simply as a potentiality or as an actuality -- a thing that is morely capable of having a certain size is not undergoing change, nor got a thing that is actually of a certain size, and motion is thought to be a sort of actuality, but incomplete, the reason for this view being that the potential whose actuality it is, is innomplete. That is why it is hard to grasp what motion is. It is necessary to class it with privation or with potentiality or with sheer actuality, yet none of these seems possible. There remains then the suggested mode of definition, namely that it is a sort of actuality, or actuality of the kind described, hard to grasp, but not incapable of existing".

In a later book of the Physics Aristotle says that motion does not destroy the principle of contradiction —— this may be quoted directly against the Marxists:

Physics VI, c. 9, 240 a 20:

Nor in reference to contradictory change shall we find anything unanswerable in the argument that if a thing is changing from not-white say to white, and is in neither condition, then it will be neither white nor not-white: for the fact that it is not wholly in either condition will not preclude us from calling it white or not-white. We call a thing white or not-white not

necessarily because it is wholly either one or the other, but because most of its parts or the most essential parts of it are so: not being in a certain condition is different from not being wholly in that condition. So, too, in the case for being and not-being and all other conditions which stand in a contradictory relation; while the changing thing must of necessity be in one of the two opposites, it is never wholly in either".

This passage is the basis of the refutation of the Marxist dislectics of nature. It indicates the logical confusion upon which the dislectics is constructed. This will be seen more fully in the last part of the thosis where the Aristotelian doctrine of becoming is treated.

Of. The following quotation from St. Thomas on the nature of motion.

(166) Continued: St. Thomas in III Physics, lect. 2, no. 5 : On the Definition of motion:

Considerandum est igitur quod aliquid est in sotu tambus, aliquid vero in potentia tentum, aliquid vero medio modo se habent inter potenties et actum. ... uod igitur est in potentia tantum, nondum novetur, sed ism notum est: illud igitur moventur, quod medio modo se habet inter puram potentiam et actum, quod quidem partim est in potentia et pertim in actu; ut patet in alterations. Cum emin aqua est solum in potentia calida, nonchum movotur; oun voro est iam calefacts, terminatus est motus calefactionis; cum vero ima particupat aliquid de calore sed imperfecto time movetur ad calorem; nam quod calefit, paulatim participat calorem magis ac magis. Ipse igitur actus imperfectus colorisin calafactibili existens, est motus; non quiden secundan id quod actu tantum est, sed secundum quod iam in actu existens habet ordinam in ulteriorem actum; quia si tolleretur ordo ad ulteriorem actum, ipse actus quantumousque imperfectus esset termimus motus et non motus, sicut socidit cum aliquid semiplens calefit. Ordo autem ad ulteriorem actum competit existenti in potentia ad ipenza. Et similiter, si actus imperfectus consideretur tentum ut in ordine ad ulteriorem actum, secundum quod hebet rationes potentiae, non habet rationem motus, sed principii motus; potest enim incipere calefactio sicut a frigido, ita et a topido. Sio igitur actus imporfectus habet rationem motus, et secundum quod comparatur ad ulteriorem actum ut potentia, et seous dum quod comparatur ad aliquid imperfective ut actus. Unde neque est potentia existentis in potentia, neque est actus existentis in actu, sed est actus existentis in potentia; ut per id quod dicitur actus, designatur ordo eius ad alteriorem actum. Unde convenientiasime Philosophus definit motum, dicens quod motus est entelechia, ideat actus, existentis in potentia socundun quod luiussodi".

- (167) Aristotle, Motuphysics V. c. 22, 1022 b 22.
- (168) Aristotle, Categories, c. 10, 12 a 27.
- (160) St. Thomas, in Metaphysics X, c. 5, nos. 2053, 2053.
- (170) Aristotle, Categories, c. 10, 12 b 16.
- (171) Ibid., c. 10 12 5 25.
- (172) Pristotle, Betaphysics X, c. 4, 1055 b 3.
- (175) St. Thomas, Comm. in meta. X, mos 2048-2048 :
 - 2046 : "Sed quod non sit contradictio absoluta, sed contradictio quaedam patet ex los quod contradictio de sui rationo non requirit neque aptitudinam, neque etiam existentiam aliculus subjecti. Verificatur enim de ente et de non ente
 quocumque. Dicinus quod animal non videt, et lignum non videt,
 et quod non ens non videt. Sed privatio de necessitate requirit
 aliqued subjectu, et quandeque etiam requirit aptitudinam in
 subjecto : quod enim est exmino non ens non dicitur privatum.
 - 2046 : "Et ideo dicit quod privatio aut est in determinata potentia, scilicet cum aptitudine ad habitum, aut salten "concepta cum susceptivo", idest cum subjecto, licet non habet aptitudinem ad habitum. Sicut si dicerses vocem indivisibilom, aut lapidem rem mortuem.
 - 2047 t "Et ideo contradictio non potest habere medium : sed privatio aliquo mode medium. Secosse est enim owne aut acquale aut non acquale esse, sive sit ens sive non ems. Sed non mocesse est dici de owni, quod sit acquale aut insequale; sed solum hoo necesse est in susceptivo acqualitatis.
 - 2048: "Sie igitur oppositio contradictionis camino est immediata; oppositio vero privationis est immediata in determinato susceptivo; non autem est immediata simpliciter. Ex quo patet quod contrarietas quae nata est habere medium, repinquior est privationi quam contradictioni, Nondux taman habetur, quod privatio sit contrarietas".

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- (174) Aristotle, Categories, c. 10 13 b 1.
- (175) Ibid., c. 10, 15 b 5.
- (176) Ibid., c. 10, 15 b 12.
- (177) Ibid., c. 10, 15 b 26.

- (178) Ibid., c. 10, 13 b 5; of also: Aristotle, Meta. IV, c. Topics, II, 2, 189 b 118.
- (179) S. Thomas, Comm. in Physics I, lect. 14, no 2 : Dubitatio autom et error antiquorum philosophorum hic fuit. Frimi qui secundum philosophiam inquisierumt veritatem et naturen rorum, diverterunt in quandam aliam viem a via voritatis, et a via naturali : quod accidit els propter infirmitatem intellectur corum. Dimerunt onim quod nihil neque generatur neque corruspitur: qued est et contra veritates et contra naturan... Et ad hoc penendum ees infirmitas intellectus coegit; quia nescierunt hanc rationem solvere, per quam videbatur proberi quod ens non generatur. Quia si ons fit, sut fit or ente: et utrumque horum videtur esse impossibile, scilicet quod ens first ex ente et quod fint ex non ente. Quod enin ex ente aliquid fieri sit impossibile, et hoc manifestum est, quis id quod est non fit; nibil enim est antequam fiat; et ens ean est cam est; ermo non fit. Guod etiam ex non ente aliquid fieri sit impossibile, ex hos manifestum est, quia semper operat aliquid subjict et quod fit, ut supra ostensum est, est ex nibilo nibil fit. Et ex hoc concludebatur quod entis non eret generatio noque corruptio."
 - No. 4: "Et hanc distinctionem antiqui non percipientes, in tantum peccaverunt, quod mihil opinati sunt fieri; nec opinati sunt quod aliqued alicrum praeter id quod penebant primum principium materialo, haberet cose substantialo. Auta, disentes aerem esse primum accidentale; et sic excludebant comem generationem substantialem, solum alterationem relimpuantes: ex eo scilicet quod, quia non fit aliquid per se vel ex non ente vel ex ente, opinabantur quod mihil possit fieri ex ente vel mon ente".
- "Platonici vero utrique rationi acquieverunt, concedendo impossibilia ad quee deducunt. Acquiererunt ergo primer rationi, quae ducebat ad hoc quod non-ens esset ens, si aliquis diceret qued ens significat unum, vel substantiam tentum vel ecciens, tantum, et per hoc vellet dicere quod camia sunt unum: huic rationi dice, acquieverunt quod non ens esset ens. Dicebet enim Flato, quod accidens est non ens: et propter hoc dicitur in VI Meta. Quod Plato posuit Sophistican circa non ens, quia versabur maxime circa es quae per accidens dicuntur. Si ergo Plato, intelligens per ens substantiam, concedebat primem propositionem Permenidia, dicentia quod quidquid est praeter ens est non ens; quia ponebat socidens, quod est praeter substantiam, esse non ens, quia ponebat concedebat secundum propositionem, hanc soilicet: quidquid est

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non est mibil, licet emin diceret accidens esse non ems, non tamen dicebat accidens esse mibil, sed aliquid. Et propter hoc secundum ipsum non sequebatur quod sit unum tantum....Eed altori rationi, quae ducebat ad hoc quod magnitudo esse indivisibiles ex decisione, idest dicendo quod magnitudines esse indivisibiles ex decisione, idest dicendo quod magnitudinum divisio ad indivisibilia tornimatur. Pomebat emin corpora recelvi in superfícies, et superfícies in lineas, et lineas in indivisibilia, ut patet in III de Caslo et hando.

- (181) Aristotle, Physics I, c. 5, 188 b 22.
- (192) John of S. T. Curs. Phil., Vol. II, p. 46 a 50 to 46 b 84 :

 "Securical appointed mode dicitur prime contrarietes illa,
 ques invenitur in genere substantiae qualiscumque illa sit, ec
 qued sustantia est primes genus inter comia preedicementa,
 ideoque appositio, ques in illa invenitur, dicitur prime contrarietes. Et hac ratione dimit Aristoteles in hoc libro textu 56 principia esso prime contraria, quia est in cia contrarrietes primi generis, id est substantiae.

Fortio modo adhue specialius dicuntur prima contraria,
quas privative opposembur, se quod privatio est principium contra ristatis, ut probatur in lo lista, textu lá et seq. et a D.
Thomas ibi loct. S. Omnis enim contrariotos includit privationem, non tamen omnis privatio contrariotas est. Unde dicit S.
Thomas opus. 57 cap. B. quod "privatio et habitus faciunt contrariotatam, et dicitur I phy. Et ideo contrariotates reducumtur in habitum et privationem tampuam in primam oppositionem,
quae est in genera". Cum ergo in substantia mon detur proprio
contrariotas, sed privativa oppositio, quatenus una forma importat privationem, alterius, manifestum est deri primam contrariotatam, id est principium contrariotatis, quae est privativa oppositio".

"Respondetur in principies rei naturalis non posse dari contraristatan proprie et stricte dictam sicut in accidentibus, sed large mode pro privative oppositie, vel si inter ipsas formas substantiales attendatur oppositie, petius est incompositie bilitas quaedam contraristas. Inc in hoc deficiebant antiqui philosophi, quia penebant principia esse contraria more socidentium, quia ipsi formas substantiales non agnessebant, sed proprincipiis contrariis assignabant calidum et frigidum, vacuum et planum, litam et amicitism et aliqua similia, ut notavit philosophus in hoc I libro cap. 8, tentu 49. Ipse autem in textu 62 docet substantiam mullius rei case contrarium, quare non petest pemi in principiis rerum naturalium contraristas proprie dicta, nisi cum satiquis pensuma non dari formas substantiales, sei solum accidentales, secundum quae fit generatio.

Cur autom in substantia non inveniatur contrarium, cum videnmas formas substantialos esse positivas et mutus as expellers et repugnare ? Respondst optime 3. Thomas II Meta. iect. 18. explicans dictum philosophi ibidem, quod secundum substantiam non est motus, quia substantiam nihil est contrarium. "Formas", inquit, "substantiales non possunt esse contrariae, quia contraria sunt extrema quaedam cuiusdam determinatas distantiae et quodesmodo continuae, Cum sit motus de umo contraria in aliud contrarium. Unde in illis generibus, in quibus talis distantia continua et determinata non invenitur, non potest contrarium inveniri. Unde mamerus mamero non est contrarius neque figura figurae. Ecdem autem modo est in substantiis, quia ratio cuiuslibet special constituitur in quodam determinato indivisibili".

- (184) Aristoble, Physics I, c. 7, 190 a 32.
- (185) Bid., c. 7, 190 b 27.
- (186) John of S. T. Cur. Phil. Vol. II. p. 51s

"Ex his ergo manifesto deducitur verissimen esse sententiam Aristotelia, quod dentur duo principia naturalia quoed compositionem et in facto esse, et tria quoed mutationem et in fiori.

Primes patet quia ea sunt principia compositionis, in quae resolvitur quidditas et ratio rei naturalis; unamquodque enim resolvitur in sua componentia. Quiditas autem rei naturalis composita est, non entitas simplem sicut angelus; homo enim em corpore et anima comstat et in illa resolvitur, et sic reliqua entia naturalia resolvimtur in materiam et formas. Ergo partes seu principia compositionis sunt materia et forma, et sunt partes per se, quia quidditas ipsa rei naturalis in illa resolvimtur tamquem in partes componentes quidditatem, nec alia partes assignabiles sunt, em quibus quidditative res naturalis componenter. Quod vero distinguentur forma et materia inter se, quod aliqui volucrunt negate, q. 5 et 4, se. cetandetur.

Quod vero dentur tria principia pro generatione seu ficri
rei naturalis, scilicet materia, forma et privatio, probetur ex
ipsa natura mutationia. Et quiden supponimus non dici esta tria
principia intrinseca generationis, quia generationem intrinsece
componant, sed quia generatio ab illis essentialiter dependet.
Etenim comis mutatio positiva essentialiter est transitus de
aliquo non esse ad aliquod esse; facit enim aliquid de novo, aliquin non mutarret, si nihil novi faceret, sed id, quod antea
erat, permemeret. Si autem aliquid de novo penitur, opportet,
quod antea non fuerit et nunc sit. Ergo necessario debet fieri
ex privatione seu ex non esse, et sic privatio principium mutationis est. Quod vero requiratur materia, constat manifeste,
quia mutatio non fit, nisi transmutatur aliquid de uno ad aliud,

ita quod ipsi termini mutationis accedent in aliquo subiscto. Duccessio enim unice ad aliud entre como subicctum minil transmutat de uno ad aliud. Subisctum sutem mutationis materiam dicinue. Denique quod requiratur forme menifectum est, cum sit terminus intentos, ad quem tendit mutatio. Et sic dicitur principium mutationis, quia est primo et per se intentos, et sic centum, et sic cet primum in intentione, licet in executione sit ultimum, ubi consummatur totus motus".

- (187) Aristotle, Physics I, c. 8, 191 b 18-30.
- (100) Ibid., c. 9, 108 a 3-25.
- (189) This identification of matter and privation is the fundamental error of the marmists dialectic.
- (190) S. Thomas, Do Fotontia, q. 5, art. I. ad 16:

 "Dicendum quod si ly ex nominet causan, non fit aliquid ex opposito nici per accidens, rations scilicot subjecti. So vero nominet ordinem, tunc fit aliquid ex opposito etiam per se; unde et privatio dicitur principium esse fiendi, sed non essendi".
 - "Respondetur qued illa particula "ex ellin", colum importate es, a quibus res essentialiter pendet, sive in facto esse sive in fieri, ut a compenentibus vel inchoantibus, so qued principlum et principiatum ita se habent, qued principiatum resolvitur in principium. Principium autem in quantum tale nem resolvitur in aliud, nici etiam sit principintum; et ita in quantum principium, nou est ex alio. Causa autem efficiems et quaecumque alia extrinseca non incumditur in definitione ista principium acces sunt principia, ex quibus natura ipea rerum constat sive in fieri sive in facto esse, sed efficiens dicitur "id, que incipit metus"; finis, "propter quem incipit"; exemplar, "id cuius-siritationem fit"; mulla vero causa extrinseca dicitur, ex que aliquid fit.

Ad id vero, quod opponitur contra privationes. Ad primer replican dicitur, quod sola privatio sumitur ex parte termini a quo
formaliter loquendo et communiter ad cames mutationes, formaliter
quidan, quia ex aliis entitus non potest dici, quod aliquid fiat
per se et formaliter, sed solum materialiter et per accidens, ut
D. Thomas dicit in hoc libro lect. 10, sicut ignio, b. g. potest
generari materialiter ex pluribus rebus, ut ex ligno, ex papyro,
ex aqua, etc. Formaliter exisse fit ex illis camibus quatenus
curreniumt in privations ignis. Guod vero alique non possunt
fiori ex quolibet, non ideo est, quia formaliter non fiant ex

privatione, sed quia non semper materia est proxime disposita, ut ex illa forma educatur vel unlatur, sicut ex lapide non potest immediate fieri equas. Communiter autom se habet privatio micamen mutationem, quia in comi mutatione et motu, etiam quando fit ex contrario in contrarium, invenitur ex parte termini a quo privatio; non contrariotas non exercetur sine privatione".

- (191) Aristotle, Physics I, c. 8, 1911, b 10.
- (192) Ingels, Dislectics of Mature, p. 125, 1980 edition.
- (193) Physics I St. Thomas ocean. lect. 15, no. 10:

 The natural appetite of matter; does not have to possess intellection in itself. This in against philosophers like Avicenna who says that matter does not have a natural appetite for form:

"Solendum est enim quod came quod appetit aliquid, vel cognoscit ipsum et se ordinat in illus; vel tendit in ipsum ex ordinations et directions aliquius cognoscentis, sicut segitta tendit in determinatum sigum ex directions et ordinations segattantis. Eihil est igitur aliud appetitus naturalis quam ordinatio aliquorum secundum propriam naturum in summ finem. Hon solum autem aliquid ens in actu per virtutem activam ordinatur in summ finem, sed etiam materia secundum quod est in potentia; nam forma est finis materiaes. Hinil igitur est aliud materiam appetere formum, quam esm ordinari ad formem ut potentia ad actum. Et quia, sub quacumque forma sit, adhuc remanet in potentia ad aliam formem, inest ei scaper appetitus formes; nom propter fastidium formes quam habet, nec propter hoo quod quaerat contraria cose simul; sed quia est in potentia ad aliam formes, dum habet, nec propter hoo quod quaerat contraria cose simul; sed quia est in potentia ad aliam formes, dum unam habet in actu..."

(194) The appetite of matter for forms : compare this with the evolution theory of the Marxiets.

John of S. Th. Curs. Thil. Vol. II. p. 78 a 5:

"Duo pessumus considerars in appetitu materies; primum, quid sit; secundum, ad quid sit et ad quae se extendat. Quantum ad primum supponenda est illu vulguris distinctic appetitus immati et eleciti. Primus est appetitus ab ipsa natura ertus sine media cognitione, ut in lapide pumbus ad centurum. Elicitus est, qui procedit ab alique mediante cognitione, sicut cum animal appetit cibum vel potum. Qued si appetitus iste criatur ax cognitione intellectiva, siditur appetitus rationalis seu voluntas et si ulterius sequatur ad cognitionem oppomentem obiectum cum indiferentius non adatringente neque comretante tantum ad unum, crit appetitus li er. Unde aliqui est appetitus innatur, qui est sine cognitione et oppomitur elicito, aliqui naturalis seu necessarius, qui oppomitur libere et potest esse elicitus. Portinet autem ad

appotitum tenders ad rem, quando caret illa, et quiescore in re, quando habet illam, ut S. Thomas dicit I p. q. 19, art. l. Sed tamen proprie dicitur et denominatur appetitus ab illo primo actu, quando tenditur in rem non habitam; rem enim quam habenus, non dicimur tentum appetare, sed frui, quod est aliquid plus quam mere appetere.

Dicimus ergo, QUOD APPETITUS MATERIAS EST AFFETITUS INNATUS QUI NON DISTINGUITUR AS MJUS ESTITATE.

Non stat hos ex philosopho I phy, textu 81, quem ibi declarat 8. Thomas contra Avicannam lect. 18. "Hibil" inquit, "est aliud materiam appeters formam, quem esa ordinari ad formam. Ideo inest el somper appetitus formas, non propter fastidium formas, quem habet, nec propter hos, quod pusarat contraria esse simil, sed quia est in potentia ad alias formas, dum unam habet actu". Videri etiam potest I. q. 89 art 2, ubi inquit, "quod inclinatio, quae est ad esse rei, non est per aliquid superadditum essentias, sed per materiam, quae appetit esse, antequam habeat, et per formam, quae tenet rem in essa, postquam fuerit".

Ratio entem est, quie appetitus naturalis non est necesso, quod sit aliquis actus vel impetus activus ad aliquid, esd solum habitudo et ordo ad sibi comveniens. Memime autem materiae est comveniens forme, per quem perficitur et actuatur. Ergo ordo et habitudo ad formem memime est inclinatio commaturalis materiae. Quod autem dici solet, quod inclinatio sequitur formem, ut inquit D. Thomas I p. q. 80 art. 1, non tellit, quod materia habeat inclinationem ad formem, quia non dicit, quod ad solan formem sequitur inclinatio, et ita inquit I Phy. lect. 15, quod non solum aliquod ens actu per virtutem activam, sed etiam materia secundum quod in potentia ordinatur in summ finem".

(195) John of S. T. Curs. Phil. Vol II, p. 884 b 11.

"Her temen nos dicimus semper its contingere, quod ex quolibet elemento fiat aliud immediate, sed quod potest ita fieri,
neque ex vi suse dispositionis repugnat. Atque its non se habet
sicut animalis, quae naturaliter ad sui transmitationem exigunt
transire per diverses formas et generationes, ut advertit S.
Thomas q. 3, De Potentia art. 9. Hos emim elements non exigunt
ex natura, sus, sed potest immediate fieri transitus de uno elemento ad aliud, nisi per socidens ex debilitate agentis aut ex
alio impedimento oppositum contingat, sed ex se potest esse tanta
activitas elementi supra aliud, quod immediate illud in se comvertat, sicut si in maximum ignem iniciatur gutta squae".

Note that in the above they are speaking of elements of the physical world as they understood them.

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(196) Continued John of S. T. Curs. Phil. II. p. 79: "Dioinus secundo, quod materia appetit comes formas sub unica ratione formali. Et basc ratio in materia sublumari est id, in quo souveniunt comes formes corruptibiles, soilicet esse substantials, corruptibile et generabile. Et ita sumitur em D. Thoma opus. 15, s. 6 in fine of Ip. Q. 66, art. 2. Hec est putentum, quod materia versatur circa unen formam, quem primo et per se appetet, et que in cani materia invenitur, v.g. forman corporeitaties had enim improbet 8. Thomas Cit. locis, quia materia solum appetit formas propter perfectionem, quam ab illis habet. Et licet a diversis formis diverses perfectiones provenient, terms our meteria sit capez conium illarum, conce illas dicitur appeters et ab illis perfici, et its appetit canes, quatemus conveniumt in mode perficiendi et actuendi materiam, Sicut vieus recipit comes colores, quatemus ecuveniumt in una ratione visibilis et in uno modo immatenti potentism, sio materia appetit omes formes, in quantum conveniunt comes in tali modo et ratione

informedi materian, scilicet mode correptibili.

Ex quo colligitur, quod materia quantumsumque informatur ab alique forme perfecte, semper appetit alies, quie hio appetitus non cet aliud quam ipes naturalis espacitas materiae ad formas, quae tali modo. Scilicet corruptibili, informare possunt. St licet ums forms sit perfectior alters, mon temms uma informat perfectiori modo quem alia, sed cames codem modo, scilicet corruptibili. Et ideo finie et perfectie materies non sistit in perfections aliquius determinatas formas sed in adaquatione et collections comium. Unde habita forma perfectissima, melius est ipsi materias ad alian transire quantum cumque viliorem, ut summ admequationem implout, quan sub illa forma perfectissima manere, non implendo tales edacquationes, siout visus quantumousque videat perfectissimen, adhan est in potentia ad videndum aline, quia ab omnibus codem mode immutatur et perficitur. Hee tamen ex hos inferes dari in materia appetitum ad plures forcas simul habendas, quia licet em parte subjecti simul detur in ec appetitus comium, non tamen ex parte objecti ad habenias comes simul in sensu composito, sed diviso, propter incompossibilitatem unius formes our altera et privations, quen una habet adiunotem alterius, sicuti in me est simul potentia ad standum ot sedendum, non temen ad sedendam et standam simil".

(196) John of St. Thomas, Cur. Phil., II. p. 101 b 25 :

"Respondetur cumen materian case capacen cuiusounque forme mediate vel immediate, totaliter vel partialiter, sicut materia formices vel lapidis sub illis dispositionibus non est capax formes hominis vel elephentis, sed sub aliis dispositionibus, quarum dispositionem capax est. Guod si tem parva quantites ut gramma non est capax totius formes elephentis, est temm capax, ut sit pars illius, et sic informari potest ab eius forme".

(197) Pius XI, Encycl. Divini Redemptoris, paragraph 2.

RIBLICORAPHY

Principal sources of Marxist doctrine :

D. Alie

Hark and Engels : Historisoh-Kritische Gesentensgabe, edited by

D. Riassnov (since 1981 by V Adorstaky), Mark
Engels-Lemin Institute, Moscow.

Part I : All writings of Mark and Engels except

Capital.

Part III: Capital and its preparatory work.

Part III: Correspondence.

Individual works particularly valuable for the study of the Disloctics of Nature :

Harr-Engels: Die Beilige Femilie, Gesanteusgebe, Abteilung I.

Herr : Die Doktordissertation, Gesentauspabe, Abteilung I,

Engels : Anti-Officing, Volume I of French translation by Bracks, Editor : Alfred Costes, Peris, 1931.

Ludwig Fouorbuch and the Outcome of Classical Corman Philosophy, International Publishers, New-York,

Marxissus und Maturelessessbaft, Laubosch Verlagsbuchhandlung, Berlin, 1925.

Lenin: Selected Works in 12 volumes, translated from the Russian as issued by Marx-Engels-Lenin Institute, Moscow.

International Publishers, New-York.

Individual works of Lenin of Philosophical interest:

Disloctical Materialism: Materialism and Empirio-Criticism,

Volume XI of Selected Works.

Mary-Engals : Harrism. International Fublishers, New-York, 1988.

Stalin : Dialectical and Bistorical Materialism. International Publishers, New-York, 1940.

Secondary sources of Marxiet doctrine

日本中國

Adorateky, V., Dialectical Haterialism, International Publishers, New-York, 1984.

Brameld, Theodore, A Philosophic Approach to Communication, The University of Chicago Press, 1988.

Conse, Edward, An Introduction to Dislectical Materialism, N.C.L.C. Publishing Society, London.

Cooper, Rebooca, The Legical Influence of Regal on Mark, The University of Mashington Press, Seattle, 1925.

Guest, David, A Textbook of Dialectical Materialism, International Publishers, New-York, 1989.

Hook, Sidney, "Disloctice of Mature", Marxist Quarterly, April-Ame 1937

From Regel to Harm, Reynal and Ritchsook, John Day, 1986.

Towards the Understanding of Earl Mays, John Day Company, New York, 1988.

Jackson, Thomas, Disloctice : the Logic of Marrism,
Laurence and Wisbert Limited, London 1986.

Lefebvre, H., Le matérialisme dialectique, Librairie Felix Alcan, Paris, 1989.

Lesoine, Léopold, L'influence de Hegel sur Hark, L'Imprimerte Bonvalot-Jouve, Paris, 1907.

McFedden, Charles, The Metaphysical Foundations of Disloctical
Materialism,
Catholic University of America, Washington, 1958.

Plekanov, George, Essays in the History of Materialism, John Lane Company, Lendon, 1984.

Questions Fondementales du Merxisme. Bibliothèque Marxiste, Éditions Sociales Internationales, Paris.

Raphael, Max, "A Merxist Critique of Thomism," Marxist Quarterly, April-June 1987, Longmans, Green and Co., Mew-York.

Riesenov, D. Mark and Erels, International Publishers, New-York, 1927.

Textbook of Markist Philosophy,

Frepared by the Leningrad Institute of Philosophy,
Publishers : Victor Collanss Limited, London.

The Liberton August, Introduction to Disloctical Materialism, Covici-Vriedo Publishers, New-York, 1986.

Principal sources of Aristotelian doctrine :

Aristotle : Categories, Physics, Generation and Corruption, Metaphysics:
English translation wherever sutable from : Basio Works
Aristotle, Random House, New-York, 1961.
Edited by : Richard Mahason.

Cajotan, Thomas de Vio, Commentaria in Praedicamenta Aristotelis,

John of Saint Thomas, Cursus Philosophious, Vol. I and II, Reject Edition, Publishers : Marietti, Turin, 1950.

John of St. Thomas, Cureus Theologicus, Bdition, Solomes.

Thomas Aquinas, St., Opera Omnia, I, Commentarium in coto libros Physicorum Aristotelis, Leonine Editions, Rome, 1982;

In Metaphysican Aristotelis Commentaria, Cathala, Harlotti, Yurin, 1986.

Opusoula : de Fotentia de Trinitata. Billion: Handonnet.

Other works consulted :

Babin, Bugdne, The theory of Opposition in Aristotle, Notro Demo, Indiana, 1960.

Surnet, John, Early Greek Philosophy,
A and C Black, Ltd., London, 1950.

Diels, Franguente der Vorsokratiker, III edit, Berlin, 1818.

Francis Ord in Greek Philosophy, Frinceton University Press, 1981.

Haldans, J.B.S., The Marriet Philosophy and the Sciences, London, George Allen and Warin, 1988.

Hegel, George, The Seience of Legie, Translation by Ma. Mellece, 2nd edition of 1892. Carford University Press, 1981.

Lee, H. D., Zeno of Elea, Cambridge University Press, 1986.

Hohring, Frank, Karl Harry Translation by Ed. Pitsgerald, F. John Land-the Bodley Head, Landon, 1986.

Hicolaicvaky-Macnohom-Molfon, Karl Mark : Man and Fighter, Translation : Devid and Mochachet, J. B. Lipponcott Company, Landon, 1936.

Pius XI, Encyclical Letter : Divini Redesptorie, 1987.

Plato, The Basic Works of Plato,

Stace, Was, The Philosophy of Herel.
Macwiller and Company, London, 1924.