

# Truth and Knowledge

By

Rudolf Steiner

*(The Fundamentals of a Theory of Cognition with Special Reference to Fichte's Scientific Teaching)*

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## Scan / Edit Notes

Rudolf Steiner's Inaugural Dissertation for his doctoral degree before the Faculty of Philosophy at the University of Rostock (Defense, beginning of May, 1891; Promotion, October 26, 1891) was titled Die Grundfrageder Erhenntnistheorie mit besonderer Rucksichtauf Fichtes Wissenschaftslehre, usw, The Fundamentals of a Theory of Cognition with Special Reference to Fichte's Scientific Teaching. When the thesis was published in book form, as it appears here in English translation, a Foreword and one chapter were added to the original by Rudolf Steiner. These latter are included in the present translation.

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## 1 - Prefaces

Present day philosophy suffers from an unhealthy faith in Kant. This essay is intended to be a contribution toward overcoming this. It would be wrong to belittle this man's lasting contributions toward the development of German philosophy and science. But the time has come to recognize that the foundation for a truly satisfying view of the world and of life can be laid only by adopting a position which contrasts strongly with Kant's.

What did he achieve? He showed that the foundation of things lying beyond the world of our senses and our reason, and which his predecessors sought to find by means of stereotyped concepts, is inaccessible to our faculty of knowledge. From this he concluded that our scientific efforts must be limited to what is within reach of experience, and that we cannot attain knowledge of the supersensible foundation, of the "thing-in-itself." But suppose the "thing-in-itself" and a transcendental ultimate foundation of things are nothing but illusions! It is easy to see that this is the case. It is an instinctive urge, inseparable from human nature, to search for the fundamental nature of things and their ultimate principles. This is the basis of all scientific activity.

There is, however, not the slightest reason for seeking the foundation of things outside the given physical and spiritual world, as long as a comprehensive investigation of this world does not lead to the discovery of elements within it that clearly point to an influence coming from beyond it.

The aim of this essay is to show that everything necessary to explain and account for the world is within the reach of our thinking. The assumption that there are principles which belong to our world, but lying outside it, is revealed as the prejudice of an out-dated philosophy living in vain and illusory dogmas. Kant himself would have come to this conclusion had he really investigated the powers inherent in our thinking. Instead of this, he shows in the most complicated way that we cannot reach the ultimate principles existing beyond our direct experience, because of the way our faculty of knowledge functions. There is, however, no reason for transferring these principles into another world. Kant did indeed refute "dogmatic" philosophy, but he put nothing in its place.

This is why Kant was opposed by the German philosophy which followed. Fichte, Schelling and Hegel did not worry in the least about the limits to cognition erected by Kant, but sought the ultimate principles within the world accessible to human reason. Even Schopenhauer, though he maintained that the conclusions of Kant's criticism of reason were eternal and irrefutable truths, found himself compelled to search for the ultimate cause along paths very different from those of Kant. The mistake of these thinkers was that they sought knowledge of the highest truths without having first laid a foundation by investigating the nature of knowledge itself. This is why the imposing edifice of thought erected by Fichte, Schelling and Hegel stands there, so to speak, without foundations.

This had a bad effect on the direction taken by the thought of these philosophers. Because they did not understand the significance of the sphere of pure ideas and its relationship to the realm of sense-perceptions, they added mistake to mistake, one-sidedness to one-sidedness. It is no wonder that their all too daring systems could not withstand the fierce opposition of an epoch so ill-disposed toward philosophy; consequently, along with the errors much of real value in their thought was mercilessly swept away.

The aim of the following inquiry is to remedy the lack described above. Unlike Kant, the purpose here is not to show what our faculty of knowledge cannot do, but rather to show what it is really able to achieve.

The outcome of what follows is that truth is not, as is usually assumed, an ideal reflection of something real, but is a product of the human spirit, created by an activity which is free; this product would exist nowhere if we did not create it ourselves.

The object of knowledge is not to repeat in conceptual form something which already exists, but rather to create a completely new sphere, which when combined with the world given to our senses constitutes complete reality. Thus man's highest activity, his spiritual creativeness, is an organic part of the universal world-process. The world-process should not be considered a complete, enclosed totality without this activity. Man is not a passive onlooker in relation to evolution, merely repeating in mental pictures cosmic events taking place without his participation; he is the active co-creator of the world-process, and cognition is the most perfect link in the organism of the universe.

This insight has the most significant consequences for the laws that underlie our deeds, that is, our moral ideals; these, too, are to be considered not as copies of something existing outside us, but as being present solely within us. This also means rejecting the "categorical imperative," an external power whose commandments we have to accept as moral laws, comparable to a voice from the Beyond that tells us what to do or leave undone. Our moral ideals are our own free creations. We have to fulfill only what we ourselves lay down as our standard of conduct. Thus the insight that truth is the outcome of a free deed also establishes a philosophy of morality, the foundation of which is the completely free personality.

This, of course, is valid only when our power of thinking penetrates — with complete insight — into the motivating impulses of our deeds. As long as we are not clear about the reasons — either natural or conceptual — for our conduct, we shall experience our motives as something compelling us from outside, even though someone on a higher level of spiritual development could recognize the extent to which our motives originated within our own individuality. Every time we succeed in penetrating a motive with clear understanding, we win a victory in the realm of freedom.

The reader will come to see how this view — especially in its epistemological aspects — is related to that of the most significant philosophical work of our time, the world-view of Eduard von Hartmann.

This essay constitutes a prologue to a Philosophy of Freedom (The Philosophy of Spiritual Activity), a work which will appear shortly.

Clearly, the ultimate goal of all knowledge is to enhance the value of human existence. He who does not consider this to be his ultimate goal, only works as he learned from those who taught him; he "investigates" because that happens to be what he has learned to do. He can never be called "an independent thinker."

The true value of learning lies in the philosophical demonstration of the significance of its results for humanity. It is my aim to contribute to this. But perhaps modern science does not ask for justification!

If so, two things are certain. first, that I shall have written a superfluous work; second, that modern scholars are striving in vain, and do not know their own aims.

In concluding this preface, I cannot omit a personal remark. Until now, I have always presented my philosophical views in connection with Goethe's world-view. I was first introduced to this by my revered teacher, Karl Julius Schroer who, in my view, reached such heights as a scholar of Goethe's work because he always looked beyond the particular to the Idea.

In this work, however, I hope to have shown that the edifice of my thought is a whole that rests upon its own foundation, and need not be derived from Goethe's world-view. My thoughts, as here set forth, and as they will be further amplified in *The Philosophy of Spiritual Activity*, have been developed over many years.

And it is with a feeling of deep gratitude that I here acknowledge how the friendliness of the Specht family in Vienna, while I was engaged in the education of their children, provided me with an ideal environment for developing these ideas; to this should be added that I owe the final shape of many thoughts now to be found in my "*Philosophy of Spiritual Activity*" to the stimulating talks with my deeply appreciated friend, Rosa Mayreder in Vienna; her own literary works, which spring from a sensitive, noble, artistic nature, presumably will soon be published.

Written in Vienna in the beginning of December 1891.

Dr. Rudolf Steiner

### **Prefaces to the First, Second, and Third Edition**

The purpose of this book is to give a description of some of the regions of the supersensible world. The reader who is only willing to admit the existence of the sensible world will look upon this description as merely an unreal production of the imagination. But whoever looks for paths that lead beyond this world of the senses will soon learn to understand that human life only gains in worth and significance through insight into another world. He will not, as many fear, be estranged from the "real" world through this new power of vision. For only through it does he learn to stand securely and firmly in this life and learns to know the causes of life. Without this power of vision he gropes like a blind man through their effects. Only through the understanding of the supersensible does the sensible "real" acquire meaning. A man therefore becomes more and not less fit for life through this understanding. Only he who understands life can become a truly practical man.

The author of this book describes nothing to which he cannot bear witness from experience, the kind of experience which belongs to these regions. Nothing will be described here which has not been personally experienced in this sense.

This book cannot be read in the customary manner of the present day. In certain respects every page, and even many a sentence, will have to be worked out by the reader. This has been aimed at intentionally. For only in this way can the book become to the reader what it ought to be. The one who merely reads it through will not have read it at all. Its truths must be experienced, lived. Only in this sense has spiritual science any value.

The book cannot be judged from the standpoint of science, if the point of view adopted in forming such a judgment is not gained from the book itself. If the critic will adopt this point of view, he will certainly see that the presentation of the facts given in this book will in no way conflict with truly scientific methods. The author is satisfied that he has taken care not to come into conflict with his own scientific scrupulousness even by a single word.

Those who feel more drawn to another method of searching after the truths here set forth will find such a method in my *Philosophy of Spiritual Activity*.<sup>\*</sup> The lines of thought taken in these two books, though different, lead to the same goal. For the understanding of the one, the other is by no means necessary, although undoubtedly helpful to some persons.

Those who look for "ultimate" truths in this book will perhaps lay it aside unsatisfied. The primary intention of the author has been to present the fundamental truths underlying the whole domain of spiritual science. It lies in the very nature of man to ask at once about the beginning and the end of the world, the purpose of existence, and the nature and being of God. Anyone, however, who looks not for mere phrases and concepts of the intellect, but for a real understanding of life, knows that in a work which deals with the elements of spiritual knowledge, things may not be said which belong to the higher stages of wisdom. It is indeed only through, an understanding of these elements that it becomes clear how higher questions should be asked. In another work forming a continuation of this one, namely, in the author's *Occult Science, an Outline*, (<sup>\*</sup>) further particulars will be found on the subject here dealt with.

In the preface to a second edition of this book the following supplementary remarks were inserted: Anyone who at the present time gives a description of supersensible facts ought to be quite clear on two points. The first is that the cultivation of supersensible knowledge is a necessity for our age; the other is that the intellectual and spiritual life of the day is full of ideas and feelings which make a description like this appear to many as an absolute chaos of fantastic notions and dreams. Knowledge of the supersensible is a necessity today, because all that a man can learn through current methods about the world and life arouses in him numerous questions, which can be answered only by means of supersensible truths.

We ought not to deceive ourselves with regard to the fact that the teaching concerning the fundamental truths of existence given within the intellectual and spiritual currents of today is for the deeply feeling soul a source, not of answers, but of questions about the great problems of the universe and of life. Some people may for a time hold firmly to the opinion that they can find a solution of the problems of existence within conclusions from strictly scientific facts, and within the deductions of this or that thinker of the day. But when the soul descends into those depths into which she must descend if she is to understand herself, what at first seemed to be an answer appears only as the incentive to the real question.

And an answer to this question does not merely have to satisfy human curiosity; on it depend the inner calm and completeness of the soul life. The attainment of such an answer does not satisfy merely the thirst for knowledge; it makes a man capable of practical work and fits him for the duties of life, while the lack of an answer to these questions lames his soul, and finally his body also. In fact, the knowledge of the supersensible is not merely something that meets a theoretical requirement; it

supplies a method for leading a truly practical life. It is just because of the nature of our present day intellectual life that study in the domain of spiritual knowledge is indispensable.

On the other hand it is an evident fact that many today reject most strongly what they most sorely need. Some people are so greatly influenced by theories built up on the basis of exact scientific experience that they cannot do otherwise than regard the contents of a book like this as a boundless absurdity. The exponent of supersensible truths is able to view such a fact entirely free from any illusions.

People will certainly be prone to demand that he give irrefutable proofs for what he states. But they do not realize that in so doing they are the victims of a misconception; for they demand, although unconsciously, not the proofs lying within the things themselves, but those which they personally are willing to recognize or are in a condition to recognize. The author of this book is sure that any person, taking his stand on the basis of the science of the present day, will find that it contains nothing which he will be unable to accept.

He knows that all the requirements of modern science can be complied with, and for this very reason the method adopted here of presenting the facts of the supersensible world supplies its own justification. In fact, the way in which true modern science approaches and deals with a subject is precisely the one which is in full harmony with this presentation. And anyone who thinks thus will feel moved by many a discussion in a way which is described by Goethe's deeply true saying: "A false teaching does not offer any opening to refutation, for it rests upon the conviction that the false is true."

Argument is fruitless with those who allow only such proofs to weigh with them as fit in with their own way of thinking. Those who know the true nature of what is called "proving" a matter see clearly that the human soul finds truth through other means than by argument. It is with these thoughts in mind that the author offers this book for publication.

## 2 - Introduction

The object of the following discussion is to analyze the act of cognition and reduce it to its fundamental elements, in order to enable us to formulate the problem of knowledge correctly and to indicate a way to its solution. The discussion shows, through critical analysis, that no theory of knowledge based on Kant's line of thought can lead to a solution of the problems involved.

However, it must be acknowledged that Volkelt's work, with its thorough examination of the concept of "experience" provided a foundation without which my attempt to define precisely the concept of the "given" would have been very much more difficult. It is hoped in this essay to lay a foundation for overcoming the subjectivism inherent in all theories of knowledge based on Kant's philosophy.

Indeed, I believe I have achieved this by showing that the subjective form in which the picture of the world presents itself to us in the act of cognition, prior to any scientific explanation of it, is merely a necessary transitional stage which is overcome in the very process of knowledge. In fact the experience which positivism and neo-Kantianism advance as the one and only certainty is just the most subjective one of all. By showing this, the foundation is also laid for objective idealism, which is a necessary consequence of a properly understood theory of knowledge.

This objective idealism differs from Hegel's metaphysical, absolute idealism, in that it seeks the reason for the division of reality into given existence and concept in the cognizing subject itself; and holds that this division is resolved, not in an objective world-dialectic but in the subjective process of cognition. I have already advanced this viewpoint in *An Outline of a Theory of Knowledge*, 1885, but my method of inquiry was a different one, nor did I analyze the basic elements in the act of cognition as will be done here.

A list of the more recent literary works which are relevant is given below. It includes not only those works which have a direct bearing on this essay, but also all those which deal with related problems. No specific reference is made to the works of the earlier classical philosophers.

The following are concerned with the theory of cognition in general:

R. Avenarius, *Philosophie als Denken der Welt gemäss dem*

*Prinzip des kleinsten Kraftsmasses, usw.*, (Philosophy as World-Thinking According to the Principle of the Smallest Energy-Mass, etc.) Leipzig, 1876.

*Kritik, der reinen Erfahrung* (Criticism of Pure Experience), Vol. I, Leipzig, 1888.

J.F.A. Bahnsen, *Der Widerspruch im Wissen und Wesen der Welt*, (The Contradictions in Knowledge and Essence of the World) Vol. I, Leipzig, 1882.

J. Baumann, *Philosophie als Orientierung über die Welt* (Philosophy as Orientation about the World) Leipzig, 1872.

J.S. Beck, Einzig möglicher Standpunkt, aus welchem die kritische Philosophie beurteilt werden muss (The Only Correct Point of View from which Critical Philosophy Should be Judged) Riga, 1796.

Friedrich Ed. Benecke, System der Metaphysik und Religionsphilosophie, usw., (System of Metaphysics and Philosophy of Religion) Berlin, 1839.

Julius Bergmann, Sein und Erkennen, usw., (Existence and Cognition, etc.) Berlin, 1880.

A.E. Biedermann, Christliche Dogmatik (Christian Dogmatics), 2nd Edition, Berlin, 1884-5, Vol. I, pp. 51-173.

H. Cohen, Kants Theorie der Erfahrung (Kant's Theory of Experience) Berlin, 1871.

P. Deussen, Die Elemente der Metaphysik (The Elements of Metaphysics), 2nd Edition, Leipzig, 1890.

W. Dilthey, Einleitung in die Geisteswissenschaften, usw., (Introduction to the Spiritual Sciences, etc.) Leipzig, 1883. — Especially the introductory chapters dealing with the interrelation of the theory of cognition and the other sciences. — Further references in works by the same author:

Beiträge zur Lösung der Frage von Ursprung unseres Glaubens an die Realität der Aussenwelt und seinem Recht; Sitzungsberichte der Kgl. Preuss. Akademie der Wissenschaften zu Berlin (Contributions to the Solution of Our Belief in the Reality of the Outer World and its Justification. Reports of Meetings of the Royal Prussian Academy of Sciences in Berlin), Berlin, 1890, p. 977.

A. Dorner, Das menschliche Erkennen usw., (Human Cognition) Berlin, 1887.

E. Dreher, Ueber Wahrnehmung und Denken (On Perception and Thinking), Berlin, 1878.

G. Engel, Sein und Denken, (Existence and Thinking) Berlin, 1889.

W. Enoch, Der Begriff der Wahrnehmung (The Concept of Perception), Hamburg, 1890.

B. Erdmann, Kants Kriticismus in der ersten und zweiten Auflage seiner Kritik der reinen Vernunft, (Kant's Criticism in the First and Second Editions of his Critique of Pure Reason) Leipzig, 1878.

F.v. Feldegg, Das Gefühl als Fundament der Weltordnung (Feeling as Fundament of Universal Order), Vienna, 1890.

E.L. Fischer, Die Grundfragen der Erkenntnistheorie (The Basic Questions of the Theory of Cognition), Mainz, 1887

K. Fischer, System der Logik und Metaphysik oder Wissenschaftslehre (System of Logic and

Metaphysics, or Scientific Theory), 2nd Edition, Heidelberg, 1865.

Geschichte der neueren Philosophie (History of More Recent Philosophy), Mannheim, 1860, especially the parts concerning Kant.

A. Ganser, Die Wahrheit, (Truth), Graz, 1890.

C. Goring, System der kritischen Philosophie, (System of Critical Philosophy), Leipzig, 1874.

Ueber den Begriff der Erfahrung (On the Concept of Experience), In Verteiljahrsschrift für wissenschaftliche Philosophie (Quarterly for Scientific Philosophy), Leipzig, 1st Year, 1877, p. 384.

E. Grimm, Zur Geschichte des Erkenntnisproblems, usw., (Contribution to the History of the Theory of Cognition). Leipzig, 1890.

F. Grung, Das Problem der Gewissheit, (The Problem of Certainty), Heidelberg, 1886.

R. Hamerling, Die Atomistik des Willens, (The Atomic Theory of Will), Hamburg, 1891.

F. Harms, Die Philosophie seit Kant (Philosophy through Kant), Berlin, 1876.

E.v. Hartmann, Kritische Grundlegung des transzendentalen Realismus (Critical Establishment of transcendental Realism), 2nd Edition Berlin, 1875.

J.H.v. Kirchmanns erkenntnistheoretischer Realismus, (J. H. v. Kirchmann's Cognitive-Theoretical Realism), Berlin, 1875.

Das Grundproblem der Erkenntnistheorie, usw., (The Fundamental Problem of a Theory of Cognition), Leipzig, 889.

Kritische Wanderungen durch die Philosophie der Gegenwart, (Critical Survey of Contemporary Philosophy), Leipzig, 1889.

H.L.F.v. Helmholtz, Die Tatsachen in der Wahrnehmung. (The Facts of Perception), Berlin, 1879.

G. Heymans, Die Gesetze und Elemente des wissenschaftlichen Denkens (The Laws and Elements of Scientific Thinking), Leyden, 1890.

A. Holder, Darstellung der Kantischen Erkenntnistheorie (A Presentation of Kant's Theory of Cognition), Tübingen, 1874.

A. Horwicz, Analyse des Denkens, usw., (Analysis of Thinking), Halle, 1875.

F.H. Jacobi, David Hume über den Glauben oder Idealismus und Realismus, (David Hume on Faith,

or Idealism and Realism), Breslau, 1787.

M. Kappes, Der "Common Sense" als Prinzip der Gewissheit in der Philosophie des Schotten Thomas Reid ("Common Sense" as Principle of Certainty in the Philosophy of the Scotsman, Thomas Reid), Munich, 1890.

M. Kauffmann, Fundamente der Erkenntnistheorie und Wissenschaftslehre (Foundations of a Theory of Cognition and Scientific Theory), Leipzig, 1890.

B. Kerry, System einer Theorie der Grenzgebiete (System of a Theory of Border-Areas), Vienna, 1890.

J.H.v. Kirchmann, Die Lehre vom Wissen als Einleitung in das Studium philosophischer Werke (The Theory of Knowledge as Introduction to the Study of Philosophical Works), Berlin, 1868.

E. Laas, Die Kausalität des Ich (The Causality of the I), Vierteljahrsschrift für wissenschaftliche Philosophie (Quarterly for Scientific Philosophy), Leipzig, 4th Year, 1880, p. ff., 185ff., 311ff.

Idealismus und Positivismus (Idealism and Positivism), Berlin, 1879.

F.A. Lange, Geschichte des Materialismus (History of Materialism), Iserlohn, 1873-75.

A.v. Leclair, Beiträge zu einer monistischen Erkenntnistheorie (Studies for a Monistic Theory of Cognition), Breslau, 1882.

Das kategorische Gepräge des Denkens (The Categorical Mark of Thinking) Vierteljahrsschrift für wissenschaftliche Philosophie (Quarterly for Scientific Philosophy), Leipzig, 7th Year, 1883, p. 257 ff.

O. Liebmann, Kant und die Epigonen, (Kant and the Epigones) Stuttgart, 1865.

Zur Analysis der Wirklichkeit (Contribution to the Analysis of Reality), Strassburg, 1880.

Gedanken und Tatsachen (Thoughts and Facts), Strassburg, 1882.

Die Klimax der Theorien (The Climax of the Theories), Strassburg, 1884.

Th. Lipps, Grundtatsachen des Seelenlebens, (The Fundamental Facts of Soul Life) Bonn, 1883.

H.R. Lotze, System der Philosophie, I Teil: Logik (System of Philosophy, Part I: Logic), Leipzig, 1874.

J.V. Mayer, Vom Erkennen (Concerning Cognition), Freiburg i. Br., 1885.

- A. Meinong, Hume-Studien (Essays on Hume), Vienna, 1877.
- J. St. Mill, System der induktiven und deduktiven Logik (System of Inductive and Deductive Logic), 1843; German translation, Braunschweig, 1849.
- W. Muntz, Die Grundlagen der Kantschen Erkenntnistheorie (Foundation of Kant's Theory of Knowledge), 2nd Edition, Breslau, 1885.
- G. Neudecker, Das Grundproblem der Erkenntnistheorie (Fundamental Problem of the Theory of Cognition), Nordlingen, 1881.
- F. Paulsen, Versuch einer Entwicklungsgeschichte der Kantschen Erkenntnistheorie (Study on the History of the Development of the Kantian Theory of Cognition), Leipzig, 1875.
- J. Rehmke, Die Welt als Wahrnehmung und Begriff, usw., (The World as Percept and Concept, etc.), Berlin, 1880.
- Th. Reid, Untersuchungen über den menschlichen Geist nach Prinzipien des gesunden Menschenverstandes (Inquiry into the Human Mind for the Principles of Common Sense), 1764; German translation, Leipzig, 1782.
- A. Riehl, Der philosophische Kritizismus und seine Bedeutung für die positive Wissenschaft (Philosophical Criticism and its Importance for Positive Science), Leipzig, 1887.
- J. Rulf, Wissenschaft des Weltgedankens und der Gedankenwelt, System einer neuen Metaphysik (Science of World-Thought and Thought-World, A System of a New Metaphysics), Leipzig, 1888.
- R.v. Schubert-Soldern, Grundlagen einer Erkenntnistheorie (Fundamentals of a Theory of Cognition), Leipzig, 1884.
- G.E. Schulze, Aenesidemus, Helmstadt, 1792.
- W. Schuppe, Zur voraussetzungslosen Erkenntnistheorie (Contribution to a Theory of Cognition Free of Presuppositions), Philosophische Monatshefte (Philosophical Monthly), Berlin, Leipzig, Heidelberg, 1882, Vol. XVIII, Nos. 6 and 7.
- Rud. Seydel, Logik oder Wissenschaft vom Wissen (Logic, or the Science of Knowledge), Leipzig, 1866.
- Christoph v. Sigwart, Logik (Logic), Freiburg i. Br., 1878.
- A. Stadler, Die Grundsätze der reinen Erkenntnistheorie in der Kantischen Philosophie (The Principles of the Pure Theory of Cognition in the Philosophy of Kant), Leipzig, 1876.

H. Taine, *De l'Intelligence*, 5th Edition, Paris, 1888.

A. Trendelenburg, *Logische Untersuchungen (Logical Researches)*, Leipzig, 1862.

F. Ueberweg, *System der Logik (System of Logic)*, 3rd Edition, Bonn, 1882.

H. Vaihinger, Hartmann, Duhring, Lange, Iserlohn, 1876.

Th. Varnbuhler, *Widerlegung der Kritik der reinen Vernunft (Refutation of the Critique of Pure Reason)*, Leipzig, 1890.

J. Volkelt, *Immanuel Kants Erkenntnistheorie, usw., (Immanuel Kant's Theory of Cognition, etc.)*, Hamburg, 1879.

— *Erfahrung und Denken (Experience and Thinking)*, Hamburg, 1886.

Richard Wahle, *Gehirn und Bewusstsein (Brain and Consciousness)*, Vienna, 1884.

W. Windelband, *Praluden (Preludes)*, Freiburg i. Br., 1884. Die verschiedenen Phasen der Kantschen Lehre vom "Ding an sich" (The Various Phases of Kant's Theory of the "Thing-in-Itself" Vierteljahrsschrift für wissenschaftliche Philosophie (Quarterly for Scientific Philosophy), Leipzig, 1st Year (1877), p. 229 ff.

J. H. Witte, *Beiträge zur Verstandnis Kants (Contributions to the Understanding of Kant)*, Berlin, 1874. *Vorstudien zur Erkenntnis des unerfahrbaren Seins (Preliminary Studies for the Cognition of Non-Experienceable Existence)*, Bonn, 1876.

H. Wolff, *Ueber den Zusammenhang unserer Vorstellungen mit Dingen ausser uns (On the Correlation of our Perceptions with Things Outside Ourselves)*, Leipzig, 1874.

Joh. Wolff, *Das Bewusstsein und sein Objekt (Consciousness and its Object)*, Berlin, 1889.

W. Wundt, *Logik (Logic)*, Vol. I: *Erkenntnislehre (Theory of Cognition)*, Stuttgart, 1880.

The following titles related to Fichte:

F.C. Biedermann, *De Genetica philosophandi ratione et methodo, praesertim Fichtii, Schellingii, Hegelii, Dissertationis particula prima, syntheticam Fichtii methodum exhibens, etc.*, Lipsiae, 1835.

F. Frederichs, *Der Freiheitsbegriff Kants und Fichtes (The Concept of Freedom of Kant and Fichte)*, Berlin, 1886.

O. Guhloff, *Der transcendente Idealismus (Transcendental Idealism)*, Halle, 1888.

P. Hensel, *Ueber die Beziehung des reinen Ich bei Fichte zur Einheit der Apperception bei Kant (On*

the Relation between the Pure I in the Works of Fichte and the Unity of Perception in those of Kant), Freiburg i. Br., 1885.

G. Schwabe, Fichtes und Schopenhauers Lehre vom Willen mit ihren Consequenzen für Weltbegreifung und Lebensführung (The Theory of Will of Fichte and Schopenhauer and its Consequences for Understanding the World and the Conduct of Life), Jena, 1887.

The numerous works published on the occasion of Fichte's Anniversary in 1862 are of course not included here. However, I would, above all, mention the Address of Trendelenburg (A. Trendelenburg, Zur Erinnerung an J. G. Fichte — To the Memory of J. G. Fichte — Berlin, 1862), which contains important theoretical viewpoints.

See Johannes Volkelt's *Erfahrung und Denken. Kritische Grundlegung der Erkenntnistheorie*, Experience and Thinking. Critical Foundation for a Theory of Cognition. Hamburg and Leipzig, 1886. (Johannes Volkelt 1848-1930, philosopher, professor at Leipzig.)

*Grundlinien einer Erkenntnistheorie der Goetheschen Weltanschauung, mit besonderer Rücksicht auf Schiller*, publ. in English translation by Olin D. Wannamaker, New York, 1950, under the title, "The Theory of Knowledge Implicit in Goethe's World Conception— Fundamental Outlines with Special Reference to Schiller." The first German edition published Berlin and Stuttgart, 1886, revised ed., Stuttgart, 1924, with new Foreword by the author. Other editions: Dornach, 1924; Dresden, 1936; Freiburg i. Br., 1949; Dornach, 1960.

### 3 - Preliminary Remarks

Epistemology is the scientific study of what all other sciences presuppose without examining it: cognition itself. It is thus a philosophical science, fundamental to all other sciences. Only through epistemology can we learn the value and significance of all insight gained through the other sciences. Thus it provides the foundation for all scientific effort. It is obvious that it can fulfill its proper function only by making no presuppositions itself, as far as this is possible, about man's faculty of knowledge.

This is generally accepted. Nevertheless, when the better-known systems of epistemology are more closely examined it becomes apparent that a whole series of presuppositions are made at the beginning, which cast doubt on the rest of the argument. It is striking that such hidden assumptions are usually made at the outset, when the fundamental problems of epistemology are formulated. But if the essential problems of a science are misstated, the right solution is unlikely to be forthcoming.

The history of science shows that whole epochs have suffered from innumerable mistakes which can be traced to the simple fact that certain problems were wrongly formulated. To illustrate this, we need not go back as far as Aristotle's physics or Raymond Lull's *Ars Magna*; — there are plenty of more recent examples. For instance, innumerable problems concerning the purpose of rudimentary organs of certain organisms could only be rightly formulated when the condition for doing so had first been created through the discovery of the fundamental law of biogenesis.

While biology was influenced by teleological views, the relevant problems could not be formulated in a way which could lead to a satisfactory answer. For example, what fantastic ideas were entertained concerning the function of the pineal gland in the human brain, as long as the emphasis was on its purpose! Then comparative anatomy threw some light on the matter by asking a different question; instead of asking what the organ was "for," inquiry began as to whether, in man, it might be merely a remnant from a lower level of evolution.

Another example: how many physical questions had to be modified after the discovery of the laws of the mechanical equivalent of heat and of conservation of energy! In short, success in scientific research depends essentially on whether the problems can be formulated rightly. Even though epistemology occupies a very special place as the basis presupposed by the other sciences, nevertheless, successful progress can only be expected when its fundamental problems are correctly formulated.

The discussion which follows aims so to formulate the problem of cognition that in this very formulation it will do full justice to the essential feature of epistemology, namely, the fact that it is a science which must contain no presuppositions. A further aim is to use this philosophical basis for science to throw light on Johann Gottlieb Fichte's philosophy of science. Why Fichte's attempt in particular to provide an absolutely certain basis for the sciences is linked to the aims of this essay, will become clear in due course.

## 4 - Kant's Basic Epistemological Question

Kant is generally considered to be the founder of epistemology in the modern sense. However, the history of philosophy before Kant contains a number of investigations which must be considered as more than mere beginnings of such a science. Volkelt points to this in his standard work on epistemology, saying that critical treatments of this science began as early as Locke. However, discussions which to-day come under the heading of epistemology can be found as far back as in the philosophy of ancient Greece.

Kant then went into every aspect of all the relevant problems, and innumerable thinkers following in his footsteps went over the ground so thoroughly that in their works or in Kant's are to be found repetitions of all earlier attempts to solve these problems. Thus where a factual rather than a historical study of epistemology is concerned, there is no danger of omitting anything important if one considers only the period since the appearance of Kant's Critique of Pure Reason. All earlier achievements in this field have been repeated since Kant.

Kant's fundamental question concerning epistemology is: How are synthetical judgments a priori possible? Let us consider whether or not this question is free of presuppositions. Kant formulates it because he believes that we can arrive at certain, unconditional knowledge only if we can prove the validity of synthetical judgments a priori. He says:

"In the solution of the above problem is comprehended at the same time the possibility of the use of pure reason in the foundation and construction of all sciences which contain theoretical knowledge a priori of objects." "Upon the solution of this problem depends the existence or downfall of the science of metaphysics."

Is this problem as Kant formulates it, free of all presuppositions? Not at all, for it says that a system of absolute, certain knowledge can be erected only on a foundation of judgments that are synthetical and acquired independently of all experience. Kant calls a judgment "synthetical" where the concept of the predicate brings to the concept of the subject something which lies completely outside the subject — "although it stands in connection with the subject," by contrast, in analytical judgment, the predicate merely expresses something which is already contained (though hidden) in the subject.

It would be out of place here to go into the extremely acute objections made by Johannes Rehmke to this classification of judgments. For our present purpose it will suffice to recognize that we can arrive at true knowledge only through judgments which add one concept to another in such a way that the content of the second was not already contained, at least for us, in the first. If, with Kant, we wish to call this category of judgment synthetical, then it must be agreed that knowledge in the form of judgment can only be attained when the connection between predicate and subject is synthetical in this sense. But the position is different in regard to the second part of Kant's question, which demands that these judgments must be acquired a priori, i.e., independent of all experience.

After all, it is conceivable that such judgments might not exist at all. A theory of knowledge must leave open, to begin with, the question of whether we can arrive at a judgment solely by means of experience, or by some other means as well. Indeed, to an unprejudiced mind it must seem that for

something to be independent of experience in this way is impossible. For whatever object we are concerned to know, we must become aware of it directly and individually, that is, it must become experience.

We acquire mathematical judgment too, only through direct experience of particular single examples. This is the case even if we regard them, with Otto Liebmann as rooted in a certain faculty of our consciousness. In this case, we must say: This or that proposition must be valid, for, if its truth were denied, consciousness would be denied as well; but we could only grasp its content, as knowledge, through experience in exactly the same way as we experience a process in outer nature.

Irrespective of whether the content of such a proposition contains elements which guarantee its absolute validity or whether it is certain for other reasons, the fact remains that we cannot make it our own unless at some stage it becomes experience for us. This is the first objection to Kant's question.

The second consists in the fact that at the beginning of a theoretical investigation of knowledge, one ought not to maintain that no valid and absolute knowledge can be obtained by means of experience. For it is quite conceivable that experience itself could contain some characteristic feature which would guarantee the validity of insight gained by means of it.

Two presuppositions are thus contained in Kant's formulation of the question. One presupposition is that we need other means of gaining knowledge besides experience, and the second is that all knowledge gained through experience is only approximately valid. It does not occur to Kant that these principles need proof, that they are open to doubt.

They are prejudices which he simply takes over from dogmatic philosophy and then uses as the basis of his critical investigations. Dogmatic philosophy assumes them to be valid, and simply uses them to arrive at knowledge accordingly; Kant makes the same assumptions and merely inquires under what conditions they are valid. But suppose they are not valid at all? In that case, the edifice of Kant's doctrine has no foundation whatever.

All that Kant brings forward in the five paragraphs preceding his actual formulation of the problem, is an attempt to prove that mathematical judgments are synthetical (an attempt which Robert Zimmermann, if he does not refute it, at least shows it to be highly questionable). But the two assumptions discussed above are retained as scientific prejudices. In the Critique of Pure Reason it is said:

"Experience no doubt teaches us that this or that object is constituted in such and such a manner, but not that it could not possibly exist otherwise." "Experience never exhibits strict and absolute, but only assumed and comparative universality (by induction)."

In Prolegomena we find it said:

"Firstly, as regards the sources of metaphysical knowledge, the very conception of the latter shows that these cannot be empirical. Its principles (under which not merely its axioms, but also its fundamental conceptions are included) must consequently never be derived from experience, since it

is not physical but metaphysical knowledge, i.e., knowledge beyond experience, that is wanted."

And finally Kant says:

"Before all, be it observed, that proper mathematical propositions are always judgments a priori, and not empirical, because they carry along with them the conception of necessity, which cannot be given by experience. If this be demurred to, it matters not; I will then limit my assertion to pure mathematics, the very conception of which implies that it consists of knowledge altogether non-empirical and a priori."

No matter where we open the Critique of Pure Reason we find that all the investigations pursued in it are based on these dogmatic principles. Cohen and Stadler attempt to prove that Kant has established the a priori nature of mathematical and purely scientific principles. However, all that the Critique of Pure Reason attempts to show can be summed up as follows: Mathematics and pure natural science are a priori sciences; from this it follows that the form of all experiences must be inherent in the subject itself.

Therefore, the only thing left that is empirically given is the material of sensations. This is built up into a system of experiences, the form of which is inherent in the subject. The formal truths of a priori theories have meaning and significance only as principles which regulate the material of sensation; they make experience possible, but do not go further than experience. However, these formal truths are the synthetic judgment a priori, and they must, as condition necessary for experience, extend as far as experience itself.

The Critique of Pure Reason does not at all prove that mathematics and pure science are a priori sciences but only establishes their sphere of validity, pre-supposing that their truths are acquired independently of experience. Kant, in fact, avoids discussing the question of proof of the a priori sciences in that he simply excludes that section of mathematics (see conclusion of Kant's last statement quoted above) where even in his own opinion the a priori nature is open to doubt; and he limits himself to that section where he believes proof can be inferred from the concepts alone. Even Johannes Volkelt finds that:

"Kant starts from the positive assumption that a necessary and universal knowledge exists as an actual fact. These presuppositions which Kant never specifically attempted to prove, are so contrary to a proper critical theory of knowledge that one must seriously ask oneself whether the Critique of Pure Reason is valid as critical epistemology."

Volkelt does find that there are good reasons for answering this question affirmatively, but he adds: "The critical conviction of Kant's theory of knowledge is nevertheless seriously disturbed by this dogmatic assumption." It is evident from this that Volkelt, too, finds that the Critique of Pure Reason as a theory of knowledge, is not free of presuppositions.

O. Liebmann, Holder, Windelband, Ueberweg, Ed. v. Hartmann and Kuno Fischer, hold essentially similar views on this point, namely, that Kant bases his whole argument on the assumption that knowledge of pure mathematics and natural science is acquired a priori.

That we acquire knowledge independently of all experience, and that the insight gained from experience is of general value only to a limited extent, can only be conclusions derived from some other investigation. These assertions must definitely be preceded by an examination both of the nature of experience and of knowledge. Examination of experience could lead to the first principle; examination of knowledge, to the second.

In reply to these criticisms of Kant's critique of reason, it could be said that every theory of knowledge must first lead the reader to where the starting point, free of all presuppositions, is to be found. For what we possess as knowledge at any moment in our life is far removed from this point, and we must first be led back to it artificially.

In actual fact, it is a necessity for every epistemologist to come to such a purely didactic arrangement concerning the starting point of this science. But this must always be limited merely to showing to what extent the starting point for cognition really is the absolute start; it must be presented in purely self evident, analytical sentences and, unlike Kant's argument, contain no assertions which will influence the content of the subsequent discussion.

It is also incumbent on the epistemologist to show that his starting point is really free of all presuppositions. All this, however, has nothing to do with the nature of the starting point itself, but is quite independent of it and makes no assertions about it. Even when he begins to teach mathematics, the teacher must try to convince the pupil that certain truths are to be understood as axioms. But no one would assert that the content of the axioms is made dependent on these preliminary considerations.

In exactly the same way the epistemologist must show in his introductory remarks how one can arrive at a starting point free of all presuppositions; yet the actual content of this starting point must be quite independent of these considerations. However, anyone who, like Kant, makes definite, dogmatic assertions at the very outset, is certainly very far from fulfilling these conditions when he introduces his theory of knowledge.

## 5 - Epistemology Since Kant

All propounders of theories of knowledge since Kant have been influenced to a greater or lesser degree by the mistaken way he formulated the problem of knowledge. As a result of his "a priorism" he advanced the view that all objects given to us are our representations. Ever since, this view has been made the basic principle and starting point of practically all epistemological systems.

The only thing we can establish as an immediate certainty is the principle that we are aware of our representations; this principle has become an almost universally accepted belief of philosophers. As early as 1792 G.E. Schulze maintained in his *Aenesidemus* that all our knowledge consists of mere representations, and that we can never go beyond our representations. Schopenhauer, with a characteristic philosophical fervor, puts forward the view that the enduring achievement of Kantian philosophy is the principle that the world is "my representation."

Eduard von Hartmann finds this principle so irrefutable that in his book, *Kritische Grundlegung des transzendentalen Realismus* (Critical Basis of Transcendental Realism) he assumes that his readers, by critical reflection, have overcome the naive identification of the perceptual picture with the thing-in-itself, that they have convinced themselves of the absolute diversity of the subjective-ideal content of consciousness, given as perceptual object through the act of representing, and the thing existing by itself, independent both of the act of representing and of the form of consciousness; in other words, readers who have entirely convinced themselves that the totality of what is given us directly consists of our representations.

In his final work on epistemology, Eduard von Hartmann did attempt to provide a foundation for this view. The validity of this in relation to a theory of knowledge free from presuppositions, will be discussed later. Otto Liebmann claims that the principle: "Consciousness cannot jump beyond itself" must be the inviolable and foremost principle of any science of knowledge.

Volkelt is of the opinion that the first and most immediate truth is: "All our knowledge extends, to begin with, only as far as our representations" he called this the most positive principle of knowledge, and considered a theory of knowledge to be "eminently critical" only if it "considers this principle as the sole stable point from which to begin all philosophizing, and from then on thinks it through consistently."

Other philosophers make other assertions the center of epistemology, e.g.: the essential problem is the question of the relation between thinking and existence, as well as the possibility of mediation between them, or again: How does that which exists become conscious? (Rehmke) etc. Kirchmann starts from two epistemological axioms: "the perceived is" and "the contradictory is not." According to E.L. Fischer knowledge consists in the recognition of something factual and real.

He lays down this dogma without proof as does Goring, who maintains something similar: "Knowledge always means recognizing something that exists; this is a fact that neither scepticism nor Kantian criticism can deny." The two latter philosophers simply lay down the law: This they say is knowledge, without judging themselves.

Even if these different assertions were correct, or led to a correct formulation of the problem, the place to discuss them is definitely not at the beginning of a theory of knowledge. For they all represent at the outset a quite specific insight into the sphere of knowledge.

To say that my knowledge extends to begin with only as far as my representations, is to express a quite definite judgment about cognition. In this sentence I add a predicate to the world given to me, namely, its existence in the form of representation. But how do I know, prior to all knowledge, that the things given to me are representations?

Thus this principle ought not to be placed at the foundation of a theory of knowledge; that this is true is most easily appreciated by tracing the line of thought that leads up to it. This principle has become in effect a part of the whole modern scientific consciousness.

The considerations which have led to it are to be found systematically and comprehensively summarized in Part I of Eduard von Hartmann's book, *Das Grundproblem der Erkenntnistheorie* (The Fundamental Problem of Epistemology). What is advanced there can thus serve as a kind of guide when discussing the reasons that led to the above assumption.

These reasons are physical, psycho-physical, physiological, as well as philosophical. The physicist who observes phenomena that occur in our environment when, for instance, we perceive a sound, is led to conclude that these phenomena have not the slightest resemblance to what we directly perceive as sound. Out there in the space surrounding us, nothing is to be found except vibrations of material bodies and of air.

It is concluded from this that what we ordinarily call sound or tone is solely a subjective reaction of our organism to those wave-like movements. Likewise it is found that light, color and heat are something purely subjective. The phenomena of color-diffraction, refraction, interference and polarization show that these sensations correspond to certain transverse vibrations in external space, which, so it is thought, must be ascribed partly to material bodies, partly to an infinitely fine elastic substance, the ether.

Furthermore, because of certain physical phenomena, the physicist finds himself compelled to abandon the belief in the continuity of objects in space, and to analyze them into systems of minute particles (molecules, atoms) the size of which, in relation to the distance between them, is immeasurably small. Thus he concludes that material bodies affect one another across empty space, so that in reality force is exerted from a distance.

The physicist believes he is justified in assuming that a material body does not affect our senses of touch and warmth by direct contact, because there must be a certain distance, even if very small, between the body and the place where it touches the skin. From this he concludes further that what we sense as the hardness or warmth of a body, for example, is only the reaction of the peripheral nerves of our senses of touch and warmth to the molecular forces of bodies which act upon them across empty space.

These considerations of the physicist are amplified by those of the psycho-physicist in the form of a

science of specific sense-energies. J. Muller has shown that each sense can be affected only in a characteristic manner which is conditioned by its structure, so that it always reacts in the same way to any external stimulus.

If the optic nerve is stimulated, there is a sensation of light, whether the stimulus is in the form of pressure, electric current, or light. On the other hand, the same external phenomenon produces quite different sensations, according to which sense organ transmits it. This leads to the conclusion that there is only one kind of phenomenon in the external world, namely motion, and that the many aspects of the world which we perceive derive essentially from the reaction of our senses to this phenomenon. According to this view, we do not perceive the external world itself, but merely the subjective sensations which it releases in us.

Thus physiology is added to physics. Physics deals with the phenomena occurring outside our organism to which our perceptions correspond; physiology aims to investigate the processes that occur in man's body when he experiences a certain sense impression. It shows that the epidermis is completely insensitive to external stimuli. In order to reach the nerves connected with our sense of touch on the periphery of the body, an external vibration must first be transmitted through the epidermis.

In the case of hearing and vision the external motion is further modified through a number of organs in these sense-tools, before it reaches the corresponding nerve. These effects, produced in the organs at the periphery of the body, now have to be conducted through the nerve to the central organ, where sensations are finally produced through purely mechanical processes in the brain. It is obvious that the stimulus which acts on the sense organ is so changed through these modifications that there can be no similarity between what first affected the sense organs, and the sensations that finally arise in consciousness. The result of these considerations is summed up by Hartmann in the following words:

"The content of consciousness consists fundamentally of the sensations which are the soul's reflex response to processes of movement in the uppermost part of the brain, and these have not the slightest resemblance to the molecular movements which called them into being."

If this line of thought is correct and is pursued to its conclusion, it must then be admitted that our consciousness does not contain the slightest element of what could be called external existence.

To the physical and physiological arguments against so-called "naive realism" Hartmann adds further objections which he describes as essentially philosophical. A logical examination of the first two objections reveals that in fact one can arrive at the above result only by first assuming the existence and interrelations of external things, as ordinary naive consciousness does, and then investigating how this external world enters our consciousness by means of our organism. We have seen that between receiving a sense impression and becoming conscious of a sensation, every trace of such an external world is lost, and all that remains in consciousness are our representations.

We must therefore assume that our picture of the external world is built up by the soul, using the material of sensations. First of all, a spatial picture is constructed using the sensations produced by sight and touch, and sensations arising from the other senses are then added. When we are compelled

to think of a certain complex of sensations as connected, we are led to the concept of matter, which we consider to be the carrier of sensations. If we notice that some sensations associated with a substance disappear, while others arise, we ascribe this to a change regulated by the causal laws in the world of phenomena.

According to this view, our whole world-picture is composed of subjective sensations arranged by our own soul-activity. Hartmann says: "Thus all that the subject perceives are modifications of its own soul-condition and nothing else."

Let us examine how this conviction is arrived at. The argument may be summarized as follows: If an external world exists then we do not perceive it as such, but through our organism transform it into a world of representations. When followed out consistently, this is a self-canceling assumption.

In any case, can this argument be used to establish any conviction at all? Are we justified in regarding our given world-picture as a subjective content of representations, just because we arrive inevitably at this conclusion if we start from the assumption made by naive consciousness? After all, the aim was just to prove this assumption invalid. It should then be possible for an assertion to be wrong, and yet lead to a correct result. This can happen, but the result cannot then be said to have been proved by the assertion.

The view which accepts the reality of our directly given picture of the world as certain and beyond doubt, is usually called naive realism. The opposite view, which regards this world-picture as merely the content of our consciousness, is called transcendental idealism. Thus the preceding discussion could also be summarized as follows: Transcendental idealism demonstrates its truth by using the same premises as the naive realism which it aims to refute. Transcendental idealism is justified if naive realism is proved incorrect, but its incorrectness is only demonstrated by means of the incorrect view itself.

Once this is realized there is no alternative but to abandon this path and to attempt to arrive at another view of the world. Does this mean proceeding by trial and error until we happen to hit on the right one? That is Hartmann's approach when he believes his epistemological standpoint established on the grounds that his view explains the phenomena, whereas others do not. According to him the various world-views are engaged in a sort of struggle for existence in which the fittest is ultimately accepted as victor. But the inconsistency of this procedure is immediately apparent, for there might well be other hypotheses which would explain the phenomena equally satisfactorily.

For this reason we prefer to adhere to the above argument for the refuting of naive realism, and investigate precisely where its weakness lies. After all, naive realism is the viewpoint from which we all start. It is therefore the proper starting-point for a critical investigation. By recognizing its shortcomings we shall be led to the right path much more surely than by simply trusting to luck.

The subjectivism outlined above is based on the use of thinking for elaborating certain facts. This presupposes that, starting from certain facts, a correct conclusion can be obtained through logical thinking (logical combination of particular observations). But the justification for using thinking in this way is not examined by this philosophical approach. This is its weakness.

While naive realism begins by assuming that the content of experience, as we perceive it, is an objective reality without examining if this is so, the standpoint just characterized sets out from the equally uncritical conviction that thinking can be used to arrive at scientifically valid conclusions. In contrast to naive realism, this view could be called naive rationalism. To justify this term, a brief comment on the concept of "naive" is necessary here. A. Döring tries to define this concept in his essay, *Ueber den Begriff des naiven Realismus* (Concerning the Concept of naive Realism). He says:

"The concept 'naive' designates the zero point in the scale of reflection about one's own relation to what one is doing. A naive content may well be correct, for although it is unreflecting and therefore simply non-critical or uncritical, this lack of reflection and criticism excludes the objective assurance of truth, and includes the possibility and danger of error, yet by no means necessitates them.

One can be equally naive in one's life of feeling and will, as in the life of representing and thinking in the widest sense; furthermore, one may express this inner life in a naive manner rather than repressing and modifying it through consideration and reflection. To be naive means not to be influenced, or at least not consciously influenced by tradition, education or rules; it means to be, in all spheres of life, what the root of the word: 'nativus' implies. i.e., unconscious, impulsive, instinctive, daimonic."

Starting from this, we will endeavor to define "naive" still more precisely. In all our activities, two things must be taken into account: the activity itself, and our knowledge of its laws. We may be completely absorbed in the activity without worrying about its laws.

The artist is in this position when he does not reflect about the laws according to which he creates, but applies them, using feeling and sensitivity. We may call him "naive." It is possible, however, to observe oneself, and enquire into the laws inherent in one's own activity, thus abandoning the naive consciousness just described through knowing exactly the scope of and justification for what one does. This I shall call critical. I believe this definition comes nearest to the meaning of this concept as it has been used in philosophy, with greater or lesser clarity, ever since Kant. Critical reflection then is the opposite of the naive approach.

A critical attitude is one that comes to grips with the laws of its own activity in order to discover their reliability and limits. Epistemology can only be a critical science. For its object is an essentially subjective activity of man: cognition, and it wishes to demonstrate the laws inherent in cognition. Thus everything "naive" must be excluded from this science. Its strength must lie in doing precisely what many thinkers, inclined more toward the practical doing of things, pride themselves that they have never done, namely, "think about thinking."

## 6 - The Starting Point of Epistemology

As we have seen in the preceding chapters, an epistemological investigation must begin by rejecting existing knowledge. Knowledge is something brought into existence by man, something that has arisen through his activity. If a theory of knowledge is really to explain the whole sphere of knowledge, then it must start from something still quite untouched by the activity of thinking, and what is more, from something which lends to this activity its first impulse.

This starting point must lie outside the act of cognition, it must not itself be knowledge. But it must be sought immediately prior to cognition, so that the very next step man takes beyond it is the activity of cognition. This absolute starting point must be determined in such a way that it admits nothing already derived from cognition.

Only our directly given world-picture can offer such a starting point, i.e. that picture of the world which presents itself to man before he has subjected it to the processes of knowledge in any way, before he has asserted or decided anything at all about it by means of thinking.

This "directly given" picture is what flits past us, disconnected, but still undifferentiated. In it, nothing appears distinguished from, related to, or determined by, anything else. At this stage, so to speak, no object or event is yet more important or significant than any other. The most rudimentary organ of an animal, which, in the light of further knowledge may turn out to be quite unimportant for its development and life, appears before us with the same claims for our attention as the noblest and most essential part of the organism.

Before our conceptual activity begins, the world-picture contains neither substance, quality nor cause and effect; distinctions between matter and spirit, body and soul, do not yet exist. Furthermore, any other predicate must also be excluded from the world-picture at this stage. The picture can be considered neither as reality nor as appearance, neither subjective nor objective, neither as chance nor as necessity; whether it is "thing-in-itself," or mere representation, cannot be decided at this stage. For, as we have seen, knowledge of physics and physiology which leads to a classification of the "given" under one or the other of the above headings, cannot be a basis for a theory of knowledge.

If a being with a fully developed human intelligence were suddenly created out of nothing and then confronted the world, the first impression made on his senses and his thinking would be something like what I have just characterized as the directly given world-picture. In practice, man never encounters this world-picture in this form at any time in his life; he never experiences a division between a purely passive awareness of the "directly-given" and a thinking recognition of it. This fact could lead to doubt about my description of the starting point for a theory of knowledge. Hartmann says for example:

"We are not concerned with the hypothetical content of consciousness in a child which is just becoming conscious or in an animal at the lowest level of life, since the philosophizing human being has no experience of this; if he tries to reconstruct the content of consciousness of beings on primitive biogenetic or ontogenetic levels, he must base his conclusions on the way he experiences his own consciousness. Our first task, therefore, is to establish the content of man's consciousness when he

begins philosophical reflection."

The objection to this, however, is that the world-picture with which we begin philosophical reflection already contains predicates mediated through cognition. These cannot be accepted uncritically, but must be carefully removed from the world-picture so that it can be considered free of anything introduced through the process of knowledge.

This division between the "given" and the "known" will not in fact, coincide with any stage of human development; the boundary must be drawn artificially. But this can be done at every level of development so long as we draw the dividing line correctly between what confronts us free of all conceptual definitions, and what cognition subsequently makes of it.

It might be objected here that I have already made use of a number of conceptual definitions in order to extract from the world-picture as it appears when completed by man, that other world-picture which I described as the directly given. However, what we have extracted by means of thought does not characterize the directly given world-picture, nor define nor express anything about it; what it does is to guide our attention to the dividing line where the starting point for cognition is to be found. The question of truth or error, correctness or incorrectness, does not enter into this statement, which is concerned with the moment preceding the point where a theory of knowledge begins. It serves merely to guide us deliberately to this starting point.

No one proceeding to consider epistemological questions could possibly be said to be standing at the starting point of cognition, for he already possesses a certain amount of knowledge. To remove from this all that has been contributed by cognition, and to establish a pre-cognitive starting point, can only be done conceptually. But such concepts are not of value as knowledge; they have the purely negative function of removing from sight all that belongs to knowledge and of leading us to the point where knowledge begins. These considerations act as signposts pointing to where the act of cognition first appears, but at this stage, do not themselves form part of the act of cognition. Whatever the epistemologist proposes in order to establish his starting point raises, to begin with, no question of truth or error, but only of its suitability for this task. From the starting point, too, all error is excluded, for error can only begin with cognition, and therefore cannot arise before cognition sets in.

Only a theory of knowledge that starts from considerations of this kind can claim to observe this last principle. For if the starting point is some object (or subject) to which is attached any conceptual definition, then the possibility of error is already present in the starting point, namely in the definition itself. Justification of the definition will then depend upon the laws inherent in the act of cognition. But these laws can be discovered only in the course of the epistemological investigation itself. Error is wholly excluded only by saying: I eliminate from my world-picture all conceptual definitions arrived at through cognition and retain only what enters my field of observation without any activity on my part. When on principle I refrain from making any statement, I cannot make a mistake.

Error, in relation to knowledge, i.e. epistemologically, can occur only within the act of cognition. Sense deceptions are not errors. That the moon upon rising appears larger than it does at its zenith is not an error but a fact governed by the laws of nature. A mistake in knowledge would occur only if, in using thinking to combine the given perceptions, we misinterpreted "larger" and "smaller." But this

interpretation is part of the act of cognition.

To understand cognition exactly in all its details, its origin and starting point must first be grasped. It is clear, furthermore, that what precedes this primary starting point must not be included in an explanation of cognition, but must be presupposed. Investigation of the essence of what is here presupposed, is the task of the various branches of scientific knowledge. The present aim, however, is not to acquire specific knowledge of this or that element, but to investigate cognition itself. Until we have understood the act of knowledge, we cannot judge the significance of statements about the content of the world arrived at through the act of cognition.

This is why the directly given is not defined as long as the relation of such a definition to what is defined is not known. Even the concept: "directly given" includes no statement about what precedes cognition. Its only purpose is to point to this given, to turn our attention to it. At the starting point of a theory of knowledge, the concept is only the first initial relation between cognition and world-content. This description even allows for the possibility that the total world-content would turn out to be only a figment of our own "I," which would mean that extreme subjectivism would be true; subjectivism is not something that exists as given. It can only be a conclusion drawn from considerations based on cognition, i.e. it would have to be confirmed by the theory of knowledge; it could not be assumed as its basis.

This directly given world-content includes everything that enters our experience in the widest sense: sensations, perceptions, opinions, feelings, deeds, pictures of dreams and imaginations, representations, concepts and ideas. Illusions and hallucinations too, at this stage are equal to the rest of the world-content. For their relation to other perceptions can be revealed only through observation based on cognition.

When epistemology starts from the assumption that all the elements just mentioned constitute the content of our consciousness, the following question immediately arises: How is it possible for us to go beyond our consciousness and recognize actual existence; where can the leap be made from our subjective experiences to what lies beyond them? When such an assumption is not made, the situation is different.

Both consciousness and the representation of the "I" are, to begin with, only parts of the directly given and the relationship of the latter to the two former must be discovered by means of cognition. Cognition is not to be defined in terms of consciousness, but vice versa: both consciousness and the relation between subject and object in terms of cognition. Since the "given" is left without predicate, to begin with, the question arises as to how it is defined at all; how can any start be made with cognition? How does one part of the world-picture come to be designated as perception and the other as concept, one thing as existence, another as appearance, this as cause and that as effect; how is it that we can separate ourselves from what is objective and regard ourselves as "I" in contrast to the "not-I?"

We must find the bridge from the world-picture as given, to that other world-picture which we build up by means of cognition. Here, however, we meet with the following difficulty: As long as we merely stare passively at the given we shall never find a point of attack where we can gain a foothold,

and from where we can then proceed with cognition. Somewhere in the given we must find a place where we can set to work, where something exists which is akin to cognition.

If everything were really only given, we could do no more than merely stare into the external world and stare indifferently into the inner world of our individuality. We would at most be able to describe things as something external to us; we should never be able to understand them. Our concepts would have a purely external relation to that to which they referred; they would not be inwardly related to it. For real cognition depends on finding a sphere somewhere in the given where our cognizing activity does not merely presuppose something given, but finds itself active in the very essence of the given.

In other words: precisely through strict adherence to the given as merely given, it must become apparent that not everything is given. Insistence on the given alone must lead to the discovery of something which goes beyond the given. The reason for so insisting is not to establish some arbitrary starting point for a theory of knowledge, but to discover the true one. In this sense, the given also includes what according to its very nature is not-given. The latter would appear, to begin with, as formally a part of the given, but on closer scrutiny, would reveal its true nature of its own accord.

The whole difficulty in understanding cognition comes from the fact that we ourselves do not create the content of the world. If we did this, cognition would not exist at all. I can only ask questions about something which is given to me. Something which I create myself, I also determine myself, so that I do not need to ask for an explanation for it.

This is the second step in our theory of knowledge. It consists in the postulate: In the sphere of the given there must be something in relation to which our activity does not hover in emptiness, but where the content of the world itself enters this activity.

The starting point for our theory of knowledge was placed so that it completely precedes the cognizing activity, and thus cannot prejudice cognition and obscure it; in the same way, the next step has been defined so that there can be no question of either error or incorrectness. For this step does not prejudge any issue, but merely shows what conditions are necessary if knowledge is to arise at all. It is essential to remember that it is we ourselves who postulate what characteristic feature that part of the world-content must possess with which our activity of cognition can make a start.

This, in fact, is the only thing we can do. For the world-content as given is completely undefined. No part of it of its own accord can provide the occasion for setting it up as the starting point for bringing order into chaos. The activity of cognition must therefore issue a decree and declare what characteristics this starting point must manifest. Such a decree in no way infringes on the quality of the given.

It does not introduce any arbitrary assertion into the science of epistemology. In fact, it asserts nothing, but claims only that if knowledge is to be made explainable, then we must look for some part of the given which can provide a starting point for cognition, as described above. If this exists, cognition can be explained, but not otherwise. Thus, while the given provides the general starting point for our theory of knowledge, it must now be narrowed down to some particular point of the given.

Let us now take a closer look at this demand. Where, within the world-picture, do we find something that is not merely given, but only given insofar as it is being produced in the actual act of cognition?

It is essential to realize that the activity of producing something in the act of cognition must present itself to us as something also directly given. It must not be necessary to draw conclusions before recognizing it. This at once indicates that sense impressions do not meet our requirements.

For we cannot know directly but only indirectly that sense impressions do not occur without activity on our part; this we discover only by considering physical and physiological factors. But we do know absolutely directly that concepts and ideas appear only in the act of cognition and through this enter the sphere of the directly given. In this respect concepts and ideas do not deceive anyone. A hallucination may appear as something externally given, but one would never take one's own concepts to be something given without one's own thinking activity.

A lunatic regards things and relations as real to which are applied the predicate "reality," although in fact they are not real; but he would never say that his concepts and ideas entered the sphere of the given without his own activity. It is a characteristic feature of all the rest of our world-picture that it must be given if we are to experience it; the only case in which the opposite occurs is that of concepts and ideas: these we must produce if we are to experience them. Concepts and ideas alone are given us in a form that could be called intellectual seeing.

Kant and the later philosophers who follow in his steps, completely deny this ability to man, because it is said that all thinking refers only to objects and does not itself produce anything. In intellectual seeing the content must be contained within the thought-form itself. But is this not precisely the case with pure concepts and ideas? (By concept, I mean a principle according to which the disconnected elements of perception become joined into a unity. Causality, for example, is a concept.

An idea is a concept with a greater content. Organism, considered quite abstractly, is an idea.) However, they must be considered in the form which they possess while still quite free of any empirical content. If, for example, the pure idea of causality is to be grasped, then one must not choose a particular instance of causality or the sum total of all causality; it is essential to take hold of the pure concept, Causality. Cause and effect must be sought in the world, but before we can discover it in the world we ourselves must first produce causality as a thought-form.

If one clings to the Kantian assertion that of themselves concepts are empty, it would be impossible to use concepts to determine anything about the given world. Suppose two elements of the world-content were given: a and b. If I am to find a relation between them, I must do so with the help of a principle which has a definite content; I can only produce this principle myself in the act of cognition; I cannot derive it from the objects, for the definition of the objects is only to be obtained by means of the principle. Thus a principle by means of which we define objects belongs entirely to the conceptual sphere alone.

Before proceeding further, a possible objection must be considered. It might appear that this discussion is unconsciously introducing the representation of the "I," of the "personal subject," and using it without first justifying it. For example, in statements like "we produce concepts" or "we insist

on this or that." But, in fact, my explanation contains nothing which implies that such statements are more than turns of phrase.

As shown earlier, the fact that the act of cognition depends upon and proceeds from an "I," can be established only through considerations which themselves make use of cognition. Thus, to begin with, the discussion must be limited to the act of cognition alone, without considering the cognizing subject. All that has been established thus far is the fact that something "given" exists; and that somewhere in this "given" the above described postulate arises; and lastly, that this postulate corresponds to the sphere of concepts and ideas. This is not to deny that its source is the "I." But these two initial steps in the theory of knowledge must first be defined in their pure form.

## 7 - Cognition and Reality

Concepts and ideas, therefore, comprise part of the given and at the same time lead beyond it. This makes it possible to define what other activity is concerned in attaining knowledge.

Through a postulate we have separated from the rest of the given world-picture a particular part of it; this was done because it lies in the nature of cognition to start from just this particular part. Thus we separated it out only to enable us to understand the act of cognition. In so doing, it must be clear that we have artificially torn apart the unity of the world-picture.

We must realize that what we have separated out from the given has an essential connection with the world content, irrespective of our postulate. This provides the next step in the theory of knowledge: it must consist in restoring that unity which we tore apart in order to make knowledge possible. The act of restoration consists in thinking about the world as given. Our thinking consideration of the world brings about the actual union of the two parts of the world content: the part we survey as given on the horizon of our experience, and the part which has to be produced in the act of cognition before that can be given also.

The act of cognition is the synthesis of these two elements. Indeed, in every single act of cognition, one part appears as something produced within that act itself, and, through the act, as added to the merely given. This part, in actual fact, is always so produced, and only appears as something given at the beginning of epistemological theory.

To permeate the world, as given, with concepts and ideas, is a thinking consideration of things. Therefore, thinking is the act which mediates knowledge. It is only when thinking arranges the world-picture by means of its own activity that knowledge can come about.

Thinking itself is an activity which, in the moment of cognition, produces a content of its own. Therefore, insofar as the content that is cognized issues from thinking, it contains no problem for cognition. We have only to observe it; the very nature of what we observe is given us directly. A description of thinking is also at the same time the science of thinking. Logic, too, has always been a description of thought-forms, never a science that proves anything. Proof is only called for when the content of thought is synthesized with some other content of the world.

Gideon Spicker is therefore quite right when he says in his book, *Lessings Weltanschauung*, (Lessing's World-View), page 5, "We can never experience, either empirically or logically, whether thinking in itself is correct." One could add to this that with thinking, all proof ceases. For proof presupposes thinking. One may be able to prove a particular fact, but one can never prove proof as such. We can only describe what a proof is. In logic, all theory is pure empiricism; in the science of logic there is only observation. But when we want to know something other than thinking, we can do so only with the help of thinking; this means that thinking has to approach something given and transform its chaotic relationship with the world-picture into a systematic one. This means that thinking approaches the given world-content as an organizing principle.

The process takes place as follows: Thinking first lifts out certain entities from the totality of the

world-whole. In the given nothing is really separate; everything is a connected continuum. Then thinking relates these separate entities to each other in accordance with the thought-forms it produces, and also determines the outcome of this relationship. When thinking restores a relationship between two separate sections of the world-content, it does not do so arbitrarily. Thinking waits for what comes to light of its own accord as the result of restoring the relationship. And it is this result alone which is knowledge of that particular section of the world content.

If the latter were unable to express anything about itself through that particular relationship established by thinking, then this attempt made by thinking would fail, and one would have to try again. All knowledge depends on man's establishing a correct relationship between two or more elements of reality, and comprehending the result of this.

There is no doubt that many of our attempts to grasp things by means of thinking, fail; this is apparent not only in the history of science, but also in ordinary life; it is just that in the simple cases we usually encounter, the right concept replaces the wrong one so quickly that we seldom or never become aware of the latter.

When Kant speaks of "the synthetic unity of apperception" it is evident that he had some inkling of what we have shown here to be an activity of thinking, the purpose of which is to organize the world-content systematically. But the fact that he believed that the a priori laws of pure science could be derived from the rules according to which this synthesis takes place, shows how little this inkling brought to his consciousness the essential task of thinking.

He did not realize that this synthetic activity of thinking is only a preparation for discovering natural laws as such. Suppose, for example, that we detach one content, a, from the world-picture, and likewise another, b. If we are to gain knowledge of the law connecting a and b, then thinking must first relate a to b so that through this relationship the connection between them presents itself as given.

Therefore, the actual content of a law of nature is derived from the given, and the task of thinking is merely to provide the opportunity for relating the elements of the world-picture so that the laws connecting them come to light. Thus there is no question of objective laws resulting from the synthetic activity of thinking alone.

We must now ask what part thinking plays in building up our scientific world-picture, in contrast to the merely given world-picture. Our discussion shows that thinking provides the thought-forms to which the laws that govern the world correspond. In the example given above, let us assume a to be the cause and b the effect. The fact that a and b are causally connected could never become knowledge if thinking were not able to form the concept of causality. Yet in order to recognize, in a given case, that a is the cause and b the effect, it is necessary for a and b to correspond to what we understand by cause and effect. And this is true of all other categories of thinking as well.

At this point it will be useful to refer briefly to Hume's description of the concept of causality. Hume said that our concepts of cause and effect are due solely to habit. We so often notice that a particular event is followed by another that accordingly we form the habit of thinking of them as causally connected, i.e. we expect the second event to occur whenever we observe the first. But this viewpoint

stems from a mistaken representation of the relationship concerned in causality.

Suppose that I always meet the same people every day for a number of days when I leave my house; it is true that I shall then gradually come to expect the two events to follow one another, but in this case it would never occur to me to look for a causal connection between the other persons and my own appearance at the same spot. I would look to quite different elements of the world-content in order to explain the facts involved. In fact, we never do determine a causal connection to be such from its sequence in time, but from its own content as part of the world-content which is that of cause and effect.

The activity of thinking is only a formal one in the upbuilding of our scientific world-picture, and from this it follows that no cognition can have a content which is a priori, in that it is established prior to observation (thinking divorced from the given); rather must the content be acquired wholly through observation.

In this sense all our knowledge is empirical. Nor is it possible to see how this could be otherwise. Kant's judgments a priori fundamentally are not cognition, but are only postulates. In the Kantian sense, one can always only say: If a thing is to be the object of any kind of experience, then it must conform to certain laws. Laws in this sense are regulations which the subject prescribes for the objects. Yet one would expect that if we are to attain knowledge of the given then it must be derived, not from the subject, but from the object.

Thinking says nothing a priori about the given; it produces a posteriori, i.e. the thought-form, on the basis of which the conformity to law of the phenomena becomes apparent.

Seen in this light, it is obvious that one can say nothing a priori about the degree of certainty of a judgment attained through cognition. For certainty, too, can be derived only from the given. To this it could be objected that observation only shows that some connection between phenomena once occurred, but not that such a connection must occur, and in similar cases always will occur. This assumption is also wrong. When I recognize some particular connection between elements of the world-picture, this connection is provided by these elements themselves; it is not something I think into them, but is an essential part of them, and must necessarily be present whenever the elements themselves are present.

Only if it is considered that scientific effort is merely a matter of combining facts of experience according to subjective principles which are quite external to the facts themselves, — only such an outlook could believe that a and b may be connected by one law to-day and by another to-morrow (John Stuart Mill). Someone who recognizes that the laws of nature originate in the given and therefore themselves constitute the connection between the phenomena and determine them, will not describe laws discovered by observation as merely of comparative universality.

This is not to assert that a natural law which at one stage we assume to be correct must therefore be universally valid as well. When a later event disproves a law, this does not imply that the law had only a limited validity when first discovered, but rather that we failed to ascertain it with complete accuracy. A true law of nature is simply the expression of a connection within the given world-picture,

and it exists as little without the facts it governs as the facts exist without the law.

We have established that the nature of the activity of cognition is to permeate the given world-picture with concepts and ideas by means of thinking. What follows from this fact? If the directly-given were a totality, complete in itself, then such an elaboration of it by means of cognition would be both impossible and unnecessary. We should then simply accept the given as it is, and would be satisfied with it in that form. The act of cognition is possible only because the given contains something hidden; this hidden does not appear as long as we consider only its immediate aspect; the hidden aspect only reveals itself through the order that thinking brings into the given. In other words, what the given appears to be before it has been elaborated by thinking, is not its full totality.

This becomes clearer when we consider more closely the factors concerned in the act of cognition. The first of these is the given. That it is given is not a feature of the given, but is only an expression for its relation to the second factor in the act of cognition. Thus what the given is as such remains quite undecided by this definition. The second factor is the conceptual content of the given; it is found by thinking, in the act of cognition, to be necessarily connected with the given.

Let us now ask:

- 1) Where is the division between given and concept?
- 2) And where are they united?

The answers to both of these questions are undoubtedly to be found in the preceding discussion. The division occurs solely in the act of cognition. In the given they are united. This shows that the conceptual content must necessarily be a part of the given, and also that the act of cognition consists in re-uniting the two parts of the world-picture, which to begin with are given to cognition separated from each other. Therefore, the given world-picture becomes complete only through that other, indirect kind of given which is brought to it by thinking. The immediate aspect of the world-picture reveals itself as quite incomplete to begin with.

If, in the world-content, the thought-content were united with the given from the first, no knowledge would exist, and the need to go beyond the given would never arise. If, on the other hand, we were to produce the whole content of the world in and by means of thinking alone, no knowledge would exist either. What we ourselves produce we have no need to know. Knowledge therefore rests upon the fact that the world-content is originally given to us in incomplete form; it possesses another essential aspect, apart from what is directly present.

This second aspect of the world-content, which is not originally given, is revealed through thinking. Therefore the content of thinking, which appears to us to be something separate, is not a sum of empty thought-forms, but comprises determinations (categories); however, in relation to the rest of the world-content, these determinations represent the organizing principle. The world-content can be called reality only in the form it attains when the two aspects of it described above have been united through knowledge.

## 8 - Theory of Knowledge Free of Assumptions and Fichte's Science of Knowledge

We have now defined the idea of knowledge. In the act of cognition this idea is directly given in human consciousness. Both outer and inner perceptions, as well as its own presence are given directly to the "I," which is the center of consciousness. (It is hardly necessary to say that here "center" is not meant to denote a particular theory of consciousness, but is used merely for the sake of brevity in order to designate consciousness as a whole.) The I feels a need to discover more in the given than is directly contained in it. In contrast to the given world, a second world — the world of thinking — rises up to meet the I and the I unites the two through its own free decision, producing what we have defined as the idea of knowledge.

Here we see the fundamental difference between the way the concept and the directly given are united within human consciousness to form full reality, and the way they are found united in the remainder of the world-content. In the entire remainder of the world picture we must conceive an original union which is an inherent necessity; an artificial separation occurs only in relation to knowledge at the point where cognition begins; cognition then cancels out this separation once more, in accordance with the original nature of the objective world. But in human consciousness the situation is different.

Here the union of the two factors of reality depends upon the activity of consciousness. In all other objects, the separation has no significance for the objects themselves, but only for knowledge. Their union is original and their separation is derived from the union. Cognition separates them only because its nature is such that it cannot grasp their union without having first separated them. But the concept and the given reality of consciousness are originally separated, and their union is derived from their original separation; this is why cognition has the character described here. Just because, in consciousness, idea and given are necessarily separated, for consciousness the whole of reality divides into these two factors; and again, just because consciousness can unite them only by its own activity, it can arrive at full reality only by performing the act of cognition.

All other categories (ideas), whether or not they are grasped in cognition, are necessarily united with their corresponding forms of the given. But the idea of knowledge can be united with its corresponding given only by the activity of consciousness. Consciousness as a reality exists only if it produces itself. I believe that I have now cleared the ground sufficiently to enable us to understand Fichte's Science of Knowledge through recognition of the fundamental mistake contained in it. Of all Kant's successors, Fichte is the one who felt most keenly that only a theory of consciousness could provide the foundation for knowledge in any form, yet he never came to recognize why this is so. He felt that what I have called the second step in the theory of knowledge, and which I formulated as a postulate, must be actively performed by the I. This can be seen, for example, from these words:

"The science of knowledge, insofar as it is to be a systematic science, is built up in the same manner in which all possible sciences, insofar as they are systematic, are built up, that is, through a determination of freedom; which freedom, in the science of knowledge, is particularly determined: to become conscious of the general manner of acting of the intelligence. ... By means of this free act, something which is in itself already form, namely, the necessary act of the intelligence, is taken up as content and put into a new form, that is, the form of knowledge or of consciousness...."

What does Fichte here mean by the "acting of intelligence" if we express in clear concepts what he dimly felt? Nothing other than the production of the idea of knowledge, taking place in consciousness. Had Fichte become clear about this, then he would have formulated the above principle as follows: A science of knowledge has the task of bringing to consciousness the act of cognition, insofar as it is still an unconscious activity of the I; it must show that to objectify the idea of knowledge is a necessary deed of the I.

In his attempt to define the activity of the I, Fichte comes to the conclusion: "The I as absolute subject is something, the being (essence) of which consists merely in postulating its own existence."

For Fichte, this postulation of the I is the primal unconditioned deed, "it is the basis of all consciousness." Therefore, in Fichte's sense too, the I can begin to be active only through an absolute original decision. But for Fichte it is impossible to find the actual content for this original activity postulated by the I. He had nothing toward which this activity could be directed or by which it could be determined.

The I is to do something, but what is it to do? Fichte did not formulate the concept of knowledge which the I must produce, and in consequence he strove in vain to define any further activity of the I beyond its original deed. In fact, he finally stated that to investigate any such further activity does not lie within the scope of theory. In his deduction of representation, he does not begin from any absolute activity of the I or of the not-I, but he starts from a state of determination which, at the same time, itself determines, because in his view nothing else is, or can be contained directly in consciousness.

What in turn determines the state of determination is left completely undecided in his theory; and because of this uncertainty, one is forced beyond theory into practical application of the science of knowledge. However, through this statement Fichte completely abolishes all cognition. For the practical activity of the I belongs to a different sphere altogether. The postulate which I put forward above can clearly be produced by the I only in an act which is free, which is not first determined; but when the I cognizes, the important point is that the decision to do so is directed toward producing the idea of cognition.

No doubt the I can do much else through free decision. But if epistemology is to be the foundation of all knowledge, the decisive point is not to have a definition of an I that is "free," but of an I that "cognizes." Fichte has allowed himself to be too much influenced by his subjective inclinations to present the freedom of the human personality in the clearest possible light. Harms, in his address, *On the Philosophy of Fichte*, (p.15) rightly says: "His world-view is predominantly and exclusively ethical, and his theory of knowledge has no other feature." Cognition would have no task to fulfill whatever if all spheres of reality were given in their totality. But the I, so long as it has not been inserted by thinking into the systematic whole of the world-picture, also exists as something merely directly given, so that it does not suffice to point to its activity.

Yet Fichte is of the opinion that where the I is concerned, all that is necessary is to seek and find it. "We have to search for the absolute, first, and unconditioned fundamental principle of human knowledge. It cannot be proven nor determined if it is to be absolute first principle.' We have seen that the only instance where proof and definitions are not required is in regard to the content of pure logic.

The I, however, belongs to reality, where it is necessary to establish the presence of this or that category within the given.

This Fichte does not do. And this is why he gave his science of knowledge a mistaken form. Zeller remarks that the logical formulas by which Fichte attempts to arrive at the concept of the I only lightly hide his predetermined purpose to reach his goal at any cost, so that the I could become his starting point. These words refer to the first form in which Fichte presented his science of knowledge in 1794. When it is realized that, owing to the whole trend of his philosophy, Fichte could not be content with any starting point for knowledge other than an absolute decree, it becomes clear that he has only two possibilities for making this beginning appear intelligible.

One possibility is to focus the attention on one or another of the empirical activities of consciousness, and then crystallize out the pure concept of the I by gradually stripping away everything that did not originally belong to consciousness. The other possibility is to start directly with the original activity of the I, and then to bring its nature to light through self-contemplation and self-observation. Fichte chose the first possibility at the beginning of his philosophical path, but gradually went over to the second.

On the basis of Kant's synthesis of "transcendental apperception" Fichte came to the conclusion that the activity of the I consists entirely in combining the material of experience into the form of judgment. To judge means to combine predicate with subject. This is stated purely formally in the expression:  $a = a$ . This proposition could not be made if the unknown factor  $x$  which unites the two  $a$ 's did not rest on an absolute ability of the I, to postulate. For the proposition does not mean  $a$  exists, but rather: if  $a$  exists, then so does  $a$ . In other words there is no question of postulating  $a$  absolutely.

In order, therefore, to arrive at something which is valid in a quite straightforward way, the only possibility is to declare the act of postulating as such to be absolute. Therefore, while  $a$  is conditional the postulation of  $a$  is itself unconditional. This postulation, however, is a deed of the I. To the I is ascribed the absolute and unconditional ability to postulate. In the proposition  $a=a$ , one  $a$  is postulated only because the other  $a$  is already postulated, and indeed is postulated by the I. "If  $a$  is postulated in the I, then it is postulated, or then it is.

This connection is possible only on condition that there exists in the I something which is always constant, something that leads over from one  $a$  to the other. The above mentioned  $x$  is based on this constant element. The I which postulates the one  $a$  is the same as the I which postulates the other  $a$ . This means that  $I = I$ . This proposition expressed in the form of a judgment: If the I exists, then the I exists, is meaningless. The I is not postulated by presupposing another I; it presupposes itself. This means: the I simply is, absolutely and unconditionally.

The hypothetical form of a judgment, which is the form of all judgments, when an absolute I is not presupposed, here is transformed into a principle of absolute existence: I simply am. Fichte also expresses this as follows: "The I originally and absolutely postulates its own being." This whole deduction of Fichte's is clearly nothing but a kind of pedagogical discussion, the aim of which is to guide his reader to the point where knowledge of the unconditional activity of the I dawns in him. His aim is to bring the activity of the I emphatically home to the reader, for without this activity there is

no I.

Let us now survey Fichte's line of thought once more. On closer inspection one sees that there is a break in its sequence; a break, indeed, of a kind that casts doubt upon the correctness of his view of the original deed of the I. What is essentially absolute when the I postulates? The judgment is made: If a exists, then so does a. The a is postulated by the I. There can, therefore, be no doubt about the postulation as such. But even if the I is unconditioned insofar as its own activity is concerned, nevertheless the I cannot but postulate something. It cannot postulate the "activity, as such, by itself," but only a definite activity.

In short: the postulation must have a content. However, the I cannot derive this content from itself, for by itself it can do no more than eternally postulate its own postulation. Therefore there must be something which is produced by this postulation, by this absolute activity of the I. Unless the I sets to work on something given which it postulates, it can do "nothing" and hence cannot postulate either. Fichte's own principle actually shows this: The I postulates its existence. This existence is a category. This means we have arrived at our principle: The activity of the I is to postulate, as a free decision, the concepts and ideas of the given. Fichte arrives at his conclusion only because he unconsciously sets out to prove that the I "exists." Had he worked out the concept of cognition, he would then have arrived at the true starting point of a theory of knowledge, namely: The I postulates cognition. Because Fichte is not clear as to what it is that determines the activity of the I, he simply characterizes this activity as the postulation of being, of existence.

In doing so, he also limits the absolute activity of the I. If the I is only unconditioned in its "postulation of existence," everything else the I does must be conditioned. But then, all possible ways to pass from what is unconditioned to the conditioned are blocked. If the I is unconditioned only in the one direction described, it immediately ceases to be possible for the I to postulate, through an absolute act, anything but its own being. This makes it necessary to indicate the basis on which all the other activities of the I depend. Fichte sought for this in vain, as we have already seen.

This is why he turned to the other of the two possibilities indicated for deducing the I. As early as 1797, in his First Introduction to the Science of Knowledge, he recommends self-observation as the right method for attaining knowledge of the essential being of the I:

"Be aware of yourself, withdraw your attention from all that surrounds you and turn it toward your inner being — this is the first demand that philosophy makes on the pupil. What is essential is not outside of you, but solely within yourself.

To introduce the science of knowledge in this way is indeed a great advance on his earlier introduction. In self-observation, the activity of the I is actually seen, not one-sidedly turned in a particular direction, not as merely postulating existence, but revealing many aspects of itself as it strives to grasp the directly given world-content in thinking. Self-observation reveals the I engaged in the activity of building up the world-picture by combining the given with concepts. However, someone who has not elaborated the above considerations for himself, and who therefore does not know that the I only arrives at the full content of reality when it approaches the given with its thought-forms, for him, the process of knowledge appears to consist in spinning the world out of the I itself.

This is why Fichte sees the world-picture more and more as a construction of the I. He emphasizes ever more strongly that for the science of knowledge it is essential to awaken the faculty for watching the I while it constructs the world. He who is able to do this appears to Fichte to be at a higher stage of knowledge than someone who is able to see only the construction, the finished product. He who considers only the world of objects does not recognize that they have first been created by the I.

He who observes the I while it constructs, sees the foundation of the finished world-picture; he knows the means by which it has come into being, and it appears to him as the result of presuppositions which for him are given. Ordinary consciousness sees only what is postulated, what is in some way or other determined; it does not provide insight into the premises, into the reasons why something is postulated in just the way it is, and not otherwise. For Fichte it is the task of a completely new sense organ to mediate knowledge of these premises. This he expresses most clearly in his Introductory Lecture to the Science of Knowledge, delivered at Berlin University in the autumn of 1813:

"This science presupposes a completely new inner sense organ, through which a new world is revealed which does not exist for the ordinary man at all." "The world revealed by this new sense, and therefore also the sense itself, is so far clearly defined: it consists in seeing the premises on which is based the judgment that 'something is'; that is, seeing the foundation of existence which, just because it is the foundation, is in itself nothing else and cannot be defined."

Here too, Fichte lacks clear insight into the content of the activity carried out by the I. And he never attained this insight. That is why his science of knowledge could never become what he intended it to be: a philosophical foundation for science in general in the form of a theory of knowledge. Had he once recognized that the activity of the I can only be postulated by the I itself, this insight would also have led him to see that the activity must likewise be determined by the I itself.

This, however, can occur only by a content being given to the otherwise purely formal activity of the I. As this content must be introduced by the I itself into its otherwise quite undetermined activity, the activity as such must also be determined by the I itself in accordance with the I's own nature. Otherwise its activity could not be postulated by the I, but at most by a "thing-in-itself" within the I, whose instrument the I would be.

Had Fichte attempted to discover how the I determines its own activity, he would have arrived at the concept of knowledge which is to be produced by the I. Fichte's science of knowledge proves that even the acutest thinker cannot successfully contribute to any field of knowledge if he is unable to come to the right thought-form (category, idea) which, when supplemented by the given, constitutes reality. Such a thinker is like a person to whom wonderful melodies are played, but he does not hear them because he lacks an ear for music. Consciousness, as given, can be described only by someone who knows how to take possession of the "idea of consciousness."

Fichte once came very near the truth. In his Introduction to the Science of Knowledge (1797), he says that there are two theoretical systems: dogmatism — in which the I is determined by the objects; and idealism, in which the objects are determined by the I. In his opinion both are possible world-views. Both are capable of being built up into a consistent system. But the adherents of dogmatism must renounce the independence of the I and make it dependent on the "thing-in-itself." For the adherents

of idealism, the opposite is the case. Which of the two systems a philosopher is to choose, Fichte leaves completely to the preference of the individual. But if one wishes the I to retain its independence, then one will cease to believe in external things and devote oneself to idealism.

This line of thought fails to consider one thing, namely that the I cannot reach any choice or decision which has some real foundation if it does not presuppose something which enables it to do so. Everything determined by the I remains empty and without content if the I does not find something that is full of content and determined through and through, which then makes it possible for the I to determine the given and, in doing so, also enables it to choose between idealism and dogmatism.

This something which is permeated with content through and through is, however, the world of thinking. And to determine the given by means of thinking is to cognize. No matter from what aspect Fichte is considered, we shall find that his line of thought gains power and life when we think of the activity of the I, which he presents as grey and empty of content, as filled and organized by what we have called the process of cognition.

The I is freely able to become active of itself, and therefore it can also produce the category of cognition through self-determination; in the rest of the world, by objective necessity the categories are connected with the given corresponding to them. It must be the task of ethics and metaphysics to investigate the nature of this free self-determination, on the basis of our theory of knowledge.

These sciences will also have to discuss whether the I is able to objectify ideas other than those of cognition. The present discussion shows that the I is free when it cognizes, when it objectifies the ideas of cognition. For when the directly given and the thought-form belonging to it are united by the I in the process of cognition, then the union of these two elements of reality, which otherwise would forever remain separated in consciousness, can only take place through a free act.

Our discussion sheds a completely new light on critical idealism. Anyone who has acquainted himself intimately with Fichte's system will know that it was a point of vital importance for this philosopher to uphold the principle that nothing from the external world can enter the I, that nothing takes place in the I which is not originally postulated by the I itself. Yet it is beyond all doubt that no idealism can derive from the I that form of the world-content which is here described as the directly given. This form of the world-content can only be given; it can never be constructed out of thinking. One need only consider that if all the colors were given us with the exception of one single shade, even then we could not begin to provide that shade out of the I alone.

We can form a picture of distant regions that we have never seen, provided we have once personally experienced, as given, the various elements needed to form the picture. Then, out of the single facts given us, we combine the picture according to given information. We should strive in vain to invent for ourselves even a single perceptual element that has never appeared within our sphere of the given. It is, however, one thing merely to be aware of the given world: it is quite another to recognize its essential nature.

This latter, though intimately connected with the world-content, does not become clear to us unless we ourselves build up reality out of the given and the activity of thinking. The essential What of the

given is postulated for the I only through the I itself. Yet the I would have no occasion to postulate within itself the nature of something given if it did not first find itself confronted by a completely undetermined given. Therefore, what is postulated by the I as the nature and being of the world is not postulated without the I, but through it.

The true shape is not the first in which reality comes before the I, but the shape the I gives it. That first shape, in fact, has no significance for the objective world; it is significant only as a basis for the process of cognition. Thus it is not that shape which the theory of knowledge gives to the world which is subjective; the subjective shape is that in which the I at first encounters it. If, like Volkelt and others, one wishes to call this given world "experience," then one will have to say: The world-picture which, owing to the constitution of our consciousness, appears to us in a subjective form as experience, is completed through knowledge to become what it really is.

Our theory of knowledge supplies the foundation for true idealism in the real sense of the word. It establishes the conviction that in thinking the essence of the world is mediated. Through thinking alone the relationship between the details of the world-content become manifest, be it the relation of the sun to the stone it warms, or the relation of the I to the external world. In thinking alone the element is given which determines all things in their relations to one another.

An objection which Kantianism could still bring forward would be that the definition of the given described above holds good in the end only for the I. To this I must reply that according to the view of the world outlined here, the division between I and external world, like all other divisions, is valid only within the given and from this it follows that the term "for the I" has no significance when things have been understood by thinking, because thinking unites all opposites. The I ceases to be seen as something separated from the external world when the world is permeated by thinking; it therefore no longer makes sense to speak of definitions as being valid for the I only.

## 9 - Epistemological Conclusion

We have established that the theory of knowledge is a science of significance for all human knowledge. The theory of knowledge alone can explain to us the relationship which the contents of the various branches of knowledge have to the world. Combined with them it enables us to understand the world, to attain a world-view.

We acquire positive insight through particular judgments; through the theory of knowledge we learn the value of this insight for reality. Because we have adhered strictly to this absolutely fundamental principle and have not evaluated any particular instances of knowledge in our discussion, we have transcended all one-sided world-views. One-sidedness, as a rule, results from the fact that the enquiry, instead of first investigating the process of cognition itself, immediately approaches some object of this process.

Our discussion has shown that in dogmatism, the "thing-in-itself" cannot be employed as its fundamental principle; similarly, in subjective idealism, the "I" cannot be fundamental, for the mutual relationship of these principles must first be defined by thinking. The "thing-in-itself" and "I" cannot be defined by deriving one from the other; both must be defined by thinking in conformity with their character and relationship.

The adherent of scepticism must cease to doubt the possibility of knowing the world, for there is no room for doubt in regard to the "given" — it is still untouched by all predicates later bestowed on it by means of cognition. Should the sceptic maintain that our cognitive thinking can never approach the world, he can only maintain this with the help of thinking, and in so doing refutes himself.

Whoever attempts to establish doubt in thinking by means of thinking itself admits, by implication, that thinking contains a power strong enough to support a conviction. Lastly, our theory of knowledge transcends both one-sided empiricism and one-sided rationalism by uniting them at a higher level. In this way, justice is done to both. Empiricism is justified by showing that as far as content is concerned, all knowledge of the given is to be attained only through direct contact with the given. And it will be found that this view also does justice to rationalism in that thinking is declared to be both the necessary and the only mediator of knowledge.

The world-view which has the closest affinity to the one presented here, built up on epistemological foundations, is that of A.E. Biedermann. But to establish his standpoint, Biedermann uses concepts which do not belong in a theory of knowledge at all. He works with concepts such as existence, substance, space, time, etc., without having first investigated the process of cognition alone. Instead of first establishing the fact that in the process of cognition, to begin with, two elements only are present, the given and thinking, he speaks of reality as existing in different forms. For example, he says:

"Every content of consciousness contains two fundamental factors; two kinds of existence are given to us in it, and these opposites we designate as physical and spiritual, or as bodily and ideal." "What exists in space and time is material, but the foundation of all processes of existence, the subject of life, this also exists, but as an ideal; it has ideal being."

Such considerations do not belong in a theory of knowledge, but in metaphysics, which in turn can be established only by means of a theory of knowledge. Admittedly, much of what Biedermann maintains is very similar to what I maintain, but the methods used to arrive at this are utterly different. No reason to draw any direct comparison has thus arisen. Biedermann seeks to attain an epistemological standpoint by means of a few metaphysical axioms. The attempt here is to acquire insight into reality by observing the process of cognition.

And we believe that we have shown that all conflicts between world-views result from a tendency to attempt to attain knowledge of something objective (thing, I, consciousness, etc.) without having first gained a sufficiently exact knowledge of what alone can elucidate all knowledge: the nature of knowledge itself.

## 10 - Practical Conclusion

The aim of the preceding discussion has been to throw light on the relationship between our cognizing personality and the objective world. What does the possession of knowledge and science mean for us? This was the question to which we sought the answer.

Our discussion has shown that the innermost core of the world comes to expression in our knowledge. The harmony of laws ruling throughout the universe shines forth in human cognition.

It is part of man's task to bring into the sphere of apparent reality the fundamental laws of the universe which, although they rule all existence, would never come to existence as such. The very nature of knowledge is that the world-foundation, which is not to be found as such in objective reality, is present in it. Our knowledge, pictorially expressed, is a gradual, living penetration into the world's foundation.

A conviction such as this must also necessarily throw light upon our comprehension of practical life.

Our moral ideals determine the whole character of our conduct in life. Our moral ideals are ideas which we have of our task in life, in other words, the ideas we form of what we should bring about through our deeds.

Our action is part of the universal world-process. It is therefore also subject to the general laws of that world-process.

Whenever something takes place in the universe, two things must be distinguished: the external course the event follows in space and time, and the inner law ruling it.

To recognize this law in the sphere of human conduct is simply a special instance of cognition. This means that the insight we have gained concerning the nature of knowledge must be applicable here also. To know oneself to be at one with one's deeds means to possess, as knowledge, the moral concepts and ideals that correspond to the deeds. If we recognize these laws, then our deeds are also our own creations.

In such instances the laws are not something given, that is, they are not outside the object in which the activity appears; they are the content of the object itself, engaged in living activity. The object in this case is our own I. If the I has really penetrated its deed with full insight, in conformity with its nature, then it also feels itself to be master. As long as this is not the case, the laws ruling the deed confront us as something foreign, they rule us; what we do is done under the compulsion they exert over us.

If they are transformed from being a foreign entity into a deed completely originating within our own I, then the compulsion ceases. That which compelled us, has become our own being. The laws no longer rule over us; in us they rule over the deed issuing from our I. To carry out a deed under the influence of a law external to the person who brings the deed to realization, is a deed done in unfreedom. To carry out a deed ruled by a law that lies within the one who brings it about, is a deed done in freedom. To recognize the laws of one's deeds, means to become conscious of one's own

freedom. Thus the process of knowledge is the process of development toward freedom.

Not all our deeds have this character. Often we do not possess knowledge of the laws governing our deeds. Such deeds form a part of our activity which is unfree. In contrast, there is that other part where we make ourselves completely at one with the laws. This is the free sphere. Only insofar as man is able to live in this sphere, can he be called moral. To transform the first sphere of our activity into one that has the character of the second is the task of every individual's development, as well as the task of mankind as a whole.

The most important problem of all human thinking is: to understand man as a free personality, whose very foundation is himself.