

# WHAT IS SCIENTIFIC KNOWLEDGE?



# Problems Of The Logic Of Scientific Knowledge

**V. I. Afremov, International Federation  
for Documentation. Committee on  
Research on the Theoretical Basis of  
Information**

## **Problems Of The Logic Of Scientific Knowledge:**

*Problems of the Logic of Scientific Knowledge* P.V. Tavanec, 2012-12-06      **Problems of the Logic of Scientific Knowledge** P. V. Tavanec's, 1970      *The Two Fundamental Problems of the Theory of Knowledge* Karl Popper, 2014-05-01 In a letter of 1932 Karl Popper described Die beiden Grundprobleme der Erkenntnistheorie The Two Fundamental Problems of the Theory of Knowledge as a child of crises above all of the crisis of physics Finally available in English it is a major contribution to the philosophy of science epistemology and twentieth century philosophy generally The two fundamental problems of knowledge that lie at the centre of the book are the problem of induction that although we are able to observe only a limited number of particular events science nevertheless advances unrestricted universal statements and the problem of demarcation which asks for a separating line between empirical science and non science Popper seeks to solve these two basic problems with his celebrated theory of falsifiability arguing that the inferences made in science are not inductive but deductive science does not start with observations and proceed to generalise them but with problems which it attacks with bold conjectures The Two Fundamental Problems of the Theory of Knowledge is essential reading for anyone interested in Karl Popper in the history and philosophy of science and in the methods and theories of science itself      Formal Logic, a Scientific and Social Problem Ferdinand Canning Scott Schiller, 1912      **Research Methodology** Alexander M. Novikov, Dmitry A. Novikov, 2013-04-25 Research Methodology From Philosophy of Science to Research Design distinguishes itself from many other works devoted to research methodology and the philosophy of science in its integrated approach towards scientific research which is regarded as the scientific project on all levels from philosophy of science to research design This work studie      **Philosophy of Science** Joseph Kockelmans, 2018-04-17 This anthology of selections from the works of noted philosophers affords the student an immediate contact with the unique historical background of the philosophy of science The selections many of which have not been readily accessible follow the development of the philosophy of science from 1786 to 1927 Each selection is preceded by a brief introduction by the editor designed to familiarize the reader with a particular philosopher and provide insights into his work Joseph J Kockelmans divides the selections into several sections Part 1 from 1786/1850 includes chapters by Immanuel Kant on the metaphysical foundations of natural science John Frederick William Herschel on experience and the analysis of phenomena William Whewell on the nature and conditions of inductive science and John Stuart Mill on induction and the law of universal causation part 2 from 1870/1899 includes chapters by Hermann Von Helmholtz on the origin and significance of geometrical axioms William Stanley Jevons on the philosophy of inductive inference John Bernard Stallo on the kinetic theory of gasses and the conditions of the validity of scientific hypotheses Ernst Mach on the economical nature of physical inquiry Karl Pearson on perceptual and conceptual space Emile Boutroux on mechanical laws Heinrich Hertz on the appropriateness correctness and permissibility of scientific theories and Ludwig Boltzmann on the fundamental principles and basic equations of mechanics The third part

covering the first decade of the twentieth century includes chapters by Henri Jules Poincare on science and reality Charles Peirce on Induction Pierre Marie Duhem on the laws of physics William Ostwald on energetism and mechanics Emile Meyerson on identity of thought and nature as the final goal of science Ernst Cassirer on functional concepts of natural science part 4 from 1910-1927 includes chapters by Charles Dunbar Broad on phenomenalism Alfred North Whitehead on time space and material Bertrand Russell on the world of physics and the world of sense Norman Robert Campbell on the meaning of science Moritz Schlick on basic issues of the philosophy of natural science and Percy Williams Bridgman on the concepts of space time and causality Philosophy of Science provides a concise single volume text to the discipline and enables students to understand and evaluate the various trends in our contemporary philosophy of science Joseph J Kockelmans is professor emeritus of philosophy at the Pennsylvania State University The Journal of Mental Science, 1934

**How Do Institutions Steer Events?** John Wettersten, 2017-03-02 Theories of explanation in the social sciences vacillate between holism and individualism Wettersten contends that this has been a consequence of theories of rationality which assume that rationality requires coherent theories to be shown to be true Rejecting these traditional assumptions about rationality Wettersten claims that the traditional explanations of rationality have placed unrealistic demands on both individuals and institutions Analysing the theories of Weber and Popper Wettersten shows that Popper made considerable progress in the theory of rationality but ultimately stayed too close to the ideas of Hayek he explains how this dilemma leads to difficulties in economics anthropology sociology ethics and political theory and constructs an alternative theory that rationality is critical problem solving in institutional contexts Wettersten contends that the critical consideration of theories followed by their improvement dispenses with the need for justification and sees rationality as a social phenomena with an institutional basis The main social advantages this view offers is that the degree of rationality individuals achieve may be increased by institutional reform without moralizing and that we can explain how institutions steer events insofar as we understand how they determine the problems which individuals seek to solve It is argued that the central moral advantage of this view is that rationality is shown to be Spinozistic in the sense that it is natural and furthers morality and peace of mind

**Articulating Intersex: A Crisis at the Intersection of Scientific Facts and Social Ideals** Natalie Delimata, 2019-09-26 This book explores the ethical dilemma clinicians may face when disclosing a diagnosis of atypical sex The moment of disclosure reveals an epistemic incompatibility between scientific fact and social meaning in relation to sex Attempting to assess the bio psychosocial implications of this dilemma highlights a complex historic antagonism between fact and meaning making satisfactory resolution of this dilemma difficult Drawing on David Hume WVO Quine and Michel Foucault the author presents an integrative model which views scientific fact and social meaning as codetermining threads in one fabric of knowledge From this epistemic perspective the ethical dilemma is understood as a tear in the fabric signifying a rupturing of ontological integrity To mend this tear and resolve the ethical dilemma three metaphysical perspectives are

considered essentialism naturalism and emergentism The book s unique features include an exploration of the impact of diagnostic disclosure on people with atypical sex intersex a synthesis of the epistemic perspectives of social and natural science facilitating interdisciplinary collaboration a critical evaluation of three metaphysical perspectives on atypical sex intersex the application of Hume s epistemological and moral distinctions to contemporary biomedicine and bioethics The book s target audience includes academics students and professionals whose work intersects the natural and social sciences and individuals interested in the metaphysics epistemology and meta ethics of sex Scientific Knowledge Janet A. Kourany,1998 Containing 31 readings reflecting the dynamism of the field this book provides readers with the most current and relevant readings available on issues in the philosophy of science All of the readings have been selected based on their clarity and coverage of the prevailing debates in the philosophy of science from logical positivism to anit realism The book assumes no specialized training in formal logic or scientific methods and therefore can be appreciated by a wide range of readers **Resources in Education** ,1976 **Theoretical Problems of Information Science** V. I□U□ Afremov,International Federation for Documentation. Committee on Research on the Theoretical Basis of Information,1984 *The Encyclopædia Britannica* ,1898 **The Encyclopaedia Britannica** ,1882 Americanized Encyclopedia Britannica, Revised and Amended ,1890 *PROBLEMS OF THE LOGIC OF SCIENTIFIC KNOWLEDGE* ; P.V. Tavanec ,1970 The Methodology of the Social Problem Albion W. Small,1898 **Logic, Methodology and Philosophy of Science** ,1973 **Scientific Information Bulletin** ,1991 Philosophy of Education Philosophy of Education Society (U.S.). Meeting,1966

## Decoding **Problems Of The Logic Of Scientific Knowledge**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Problems Of The Logic Of Scientific Knowledge**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.