

SCIENTIFIC DISCOVERY, LOGIC, AND RATIONALITY

Edited and with a Critical Introduction by

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the language of science

Scientific Discovery Logic And Rationality

G Thomas



Scientific Discovery Logic And Rationality:

Scientific Discovery, Logic, and Rationality Thomas Nickles, 2012-12-06 It is fast becoming a cliché that scientific discovery is being rediscovered. For two philosophical generations that of the Founders and that of the Followers of the logical positivist and logical empiricist movements, discovery had been consigned to the domain of the intractable, the ineffable, the inscrutable. The philosophy of science was focused on the so-called context of justification as its proper domain. More recently, as the exclusivity of the logical reconstruction program in philosophy of science came under question and as the critique of justification developed within the framework of logical and epistemological analysis, the old question of scientific discovery which had been put on the back burner began to emerge once again. Emphasis on the relation of the history of science to the philosophy of science and attention to the question of theory change and theory replacement also served to legitimate a new concern with the origins of scientific change to be found within discovery and invention. How welcome then to see what a wide range of issues and what a broad representation of philosophers and historians of science have been brought together in the present two volumes of the Boston Studies in the Philosophy of Science. For what these volumes achieve in effect is the continuation of a tradition which had once been strong in the philosophy of science, namely that tradition which addressed the question of scientific discovery as a central question in the understanding of science.

Scientific Discovery, Logic, and Rationality, 1980 **Scientific Discovery, Logic, and Rationality**, 1980 *The Logic of Discovery* S. Kleiner, 1993-07-31 Scientific research is viewed as a deliberate activity and the logic of discovery consists of strategies and arguments whereby the best objectives, questions and optimal means for achieving these objectives, heuristics are chosen. This book includes a discussion and some proposals regarding the way the logic of questions can be applied to understanding scientific research and draws upon work in artificial intelligence in a discussion of heuristics and methods for appraising heuristics, metaheuristics. It also includes a discussion of a third source for scientific objectives and heuristics, episodes and exemplars from the history of science and the history of philosophy. This book is written to be accessible to advanced students in philosophy and to the scientific community. It is of interest to philosophers of science, philosophers of biology, historians of physics and historians of biology. *Scientific Discovery, Logic, and Rationality* Guy L. Leonard

Memorial Conference in Philosophy\$ (1ere : 1978 :University of Nevada, Reno), 1980 **Wittgenstein, Education and the Problem of Rationality** Michael A. Peters, 2021-01-21 This book develops an argument for a historicist and non-foundationalist notion of rationality based on an interpretation of Wittgenstein of the *Philosophical Investigations* and *On Certainty*. The book examines two notions of rationality: a universal versus a constitutive conception and their significance for educational theory. The former, advanced by analytic philosophy of education as a form of conceptual analysis, is based on a mistaken reading of Wittgenstein. Analytic philosophy of education used a reading of Wittgenstein's philosophy of language to set up and justify an absolute, universal and ahistorical notion of rationality. By contrast, the book examines the underlying

influence of the later Wittgenstein on the historicist turn in philosophy of science as a basis for a non foundationalist and constitutive notion of rationality which is both historical and cultural and remains consistent with wider developments in philosophy hermeneutics and social theory This book aims to understand the philosophical motivation behind this view to examine its intellectual underpinnings and to substitute this universal conception of rationality by reference to a Hegelian interpretation of the later Wittgenstein that emphasizes his status as an anti foundational thinker **The Logic of**

Discovery S Kleiner,2014-01-15 Scientific research is viewed as a deliberate activity and the logic of discovery consists of strategies and arguments whereby the best objectives questions and optimal means for achieving these objectives heuristics are chosen This book includes a discussion and some proposals regarding the way the logic of questions can be applied to understanding scientific research and draws upon work in artificial intelligence in a discussion of heuristics and methods for appraising heuristics metaheuristics It also includes a discussion of a third source for scientific objectives and heuristics episodes and exemplars from the history of science and the history of philosophy This book is written to be accessible to advanced students in philosophy and to the scientific community It is of interest to philosophers of science philosophers of biology historians of physics and historians of biology **Rationality in Discovery** Alexander P. M. van den

Bosch,2017-06-07 This Rational Drug Discovery is a game where the prize is better healthcare less test animals sacrif and less SIDE effects In this open logical social study this io l k j p P 78 DE **Rational Changes in Science** Joseph C.

Pitt,Marcello Pera,2012-12-06 THE PROBLEMS OF SCIENTIFIC RATIONALITY Fashion is a fickle mistress Only yesterday scientific rationality enjoyed considerable attention consideration and even reverence among phi losophers but today s fashion leads us to despise it and the matron rejected and abandoned as Hecuba complains modo maxima rerum tot generis natisque potens nunc trahor exui inops to cite Kant for our purpose who cited Ovid for his Like every fashion ours also has its paradoxical aspects as John Watkins correctly reminds in an essay in this volume Enthusiasm for science was high among philosophers when significant scientific results were mostly a promise it declined when that promise became an undeniable reality Nevertheless as with the decline of any fashion even the revolt against scientific rationality has some reasonable grounds If the taste of the philosophical community has changed so much it is not due to an incident or a whim This volume is not about the history of and reasons for this change Instead it provides a view of the new emerging image of scientific rationality in both its philosophical and historical aspects In particular the aim of the contributions gathered here is to focus on the concept around which the discussions about rationality have mostly taken place scientific change **The Logic of**

Scientific Discovery Gary James Jason,1989 While considerable discussion has taken place regarding scientific discovery we are still in the dark about what a logic of discovery should look like In this work the author argues that formal dialogue theory is the best candidate for a logic of discovery Formal dialogue logic is explored in detail More broadly a view of knowledge is put forward which encourages exploring the epistemological aspects of discovery **Representing Electrons**

Theodore Arabatzis, 2006 Both a history and a metahistory *Representing Electrons* focuses on the development of various theoretical representations of electrons from the late 1890s to 1925 and the methodological problems associated with writing about unobservable scientific entities Using the electron or rather its representation as a historical actor Theodore Arabatzis illustrates the emergence and gradual consolidation of its representation in physics its career throughout old quantum theory and its appropriation and reinterpretation by chemists As Arabatzis develops this novel biographical approach he portrays scientific representations as partly autonomous agents with lives of their own Furthermore he argues that the considerable variance in the representation of the electron does not undermine its stable identity or existence Raising philosophical issues of contentious debate in the history and philosophy of science namely scientific realism and meaning change Arabatzis addresses the history of the electron across disciplines integrating historical narrative with philosophical analysis in a book that will be a touchstone for historians and philosophers of science and scientists alike [Rationality in Thought and Action](#)

Martin Tamny, K D Irani, 1986-05-19 This collection of original essays examines the controversy over and attacks on rationality in the methodologies of the humanities and the physical and social sciences These essays represent the thinking of a wide variety of philosophers psychologists historians classicists and economists about the role of rationality in thought and action Reflecting the differing perspectives of their authors disciplines as well as the centrality of rationality to those disciplines they are important additions to a debate that has been going on for some twenty years Beginning with an introductory essay in which K D Irani covers the various ways in which rationality can be approached the body of the book is divided into five sections dealing with various aspects of the issue Respectively they are concerned with rationality as it relates to ethical and social thought and action general scientific thought and the particular disciplines of economics history and law the analytic and hermeneutic approaches to communications and learning and the contrasting classical traditions of ancient Greece and China In the final section two differing theories concerning the nature of rationality itself are presented A list of suggested further readings completes the volume **The Heuristic View** Emiliano Ippoliti, Fabio

Sterpetti, 2025-08-06 This volume offers a series of thought provoking analyses that explore non mainstream perspectives on knowledge acquisition and scientific discovery A central theme across many of the contributions is the heuristic conception of method a view that finds its philosophical roots in Imre Lakatos's work in the philosophy of mathematics and more distantly in Platonic notions of philosophical inquiry Knowledge acquisition is frequently conceptualized as a form of problem solving and problem solving is typically regarded as a rational endeavor However the dominant view in the philosophy of science has long held that scientific discovery resists systematic explanation in terms of logic and rationality If an alternative account of discovery grounded in these terms can be developed it would represent a significant theoretical advancement The essays collected in this book critically assess the promise and limitations of such non standard accounts and they investigate the possibility of framing scientific discovery within a logical and rational framework This volume will be of particular interest to

scholars in the philosophy of science epistemology philosophy of mathematics and philosophy of logic as well as to scientists engaged in theoretical inquiry and graduate students working in these or related areas **Scientific Cognition, Semiotics, and Computational Agents: Essays in Honor of Lorenzo Magnani - Volume 2** Selene Arfini, 2025-09-19 This book the second of two volumes focuses on scientific cognition computationalism and scholars reception of what Lorenzo Magnani named eco cognitive views on the mind The authors of these chapters address complex questions which regard in part Magnani s contributions in the field of model based science the role of inferential models in mathematics the transformations and possible applicability of Charles Sanders Peirce s and Immanuel Kant s concepts and insight into current understanding of scientific progress and the still unsolved questions regarding the methodological steps that take researchers to scientific discoveries Some contributions also address the problematic understanding of artificial agents as intelligent how cognition can be discussed within the limits of computationalism and how the eco cognitive perspective on the mind also affects the conception of scientific reasoning and socially constructed phenomena The book is of great interest to those interested in epistemology philosophy of science mathematical logic and AI Proceedings of the Fourth Annual Conference of the Cognitive Science Society, August 4-6, 1982, Ann Arbor, Michigan , 1982 **Semiotica** , 1987

Proceedings of the ... Annual Conference of the Cognitive Science Society Cognitive Science Society (U.S.). Conference, 1982 **Boston Studies in the Philosophy of Science** Robert P. Farrell, 2003 Galileo's Logical Treatises William Wallace, 1992-06-30 Hard as it is to believe what is possibly Galileo s most important Latin manuscript was not transcribed for the National Edition of his works and so has remained hidden from scholars for centuries In this volume William A Wallace translates the logical treatises contained in that manuscript and makes them intelligible to the modern reader He prefaces his translation with a lengthy introduction describing the contents of the manuscript the sources from which it derives its dating and how it relates to Galileo s other Pisan writings The translation is accompanied by extensive notes and commentary these explain the text and tie it to the fuller exposition of Galileo s logical methodology in the author s companion volume Galileo s Logic of Discovery and Proof The result is a research tool that is indispensable for anyone intent on understanding Galileo s logic as described in that volume and the documentary evidence on which it is based

Scientific Discovery Aharon Kantorovich, 1993-07-01 Kantorovich analyzes the notion of discovery He views the process as inference and questions whether there is logic or method to discovery He provides an alternative perspective on scientific discovery that explains the difficulties in finding a satisfactory method of discovery Within the framework of evolutionary epistemology discovery is treated as a phenomenon in its own right having psychological and social dimensions Science is viewed as a continuation of the evolutionary process whereby creative discovery plays a role similar to blind mutation in biological evolution From this perspective serendipity and tinkering are key notions in understanding the creative process

Decoding **Scientific Discovery Logic And Rationality**: 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 capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Scientific Discovery Logic And Rationality**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt 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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