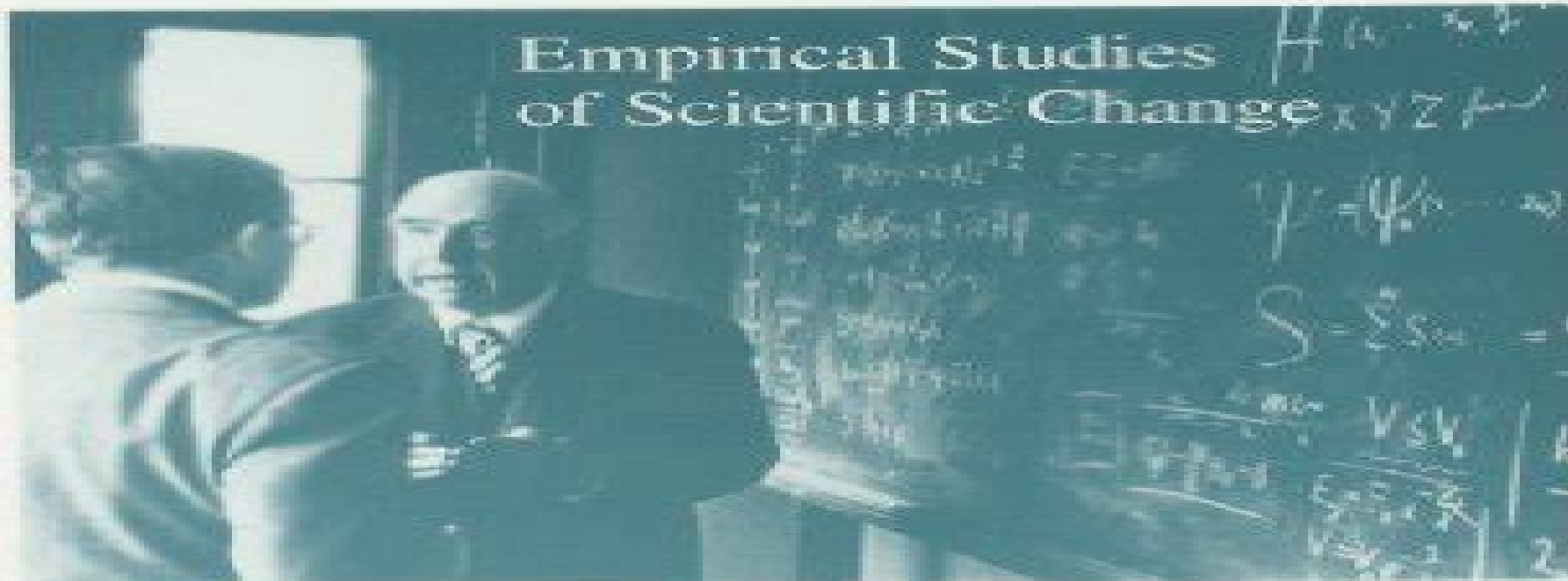


Scrutinizing Science

Empirical Studies
of Scientific Change



Edited by Arthur Donovan,
Larry Laudan, and Rachel Laudan

Scrutinizing Science Empirical Studies Of Scientific Change

Thomas Nickles



Scrutinizing Science Empirical Studies Of Scientific Change:

Scrutinizing Science A Donovan, R Laudan, 1988-05-31 **Kuhn's 'The Structure of Scientific Revolutions'** John Preston, 2008-06-07 Thomas Kuhn's *The Structure of Scientific Revolutions* is arguably one of the most influential books of the twentieth century and a key text in the philosophy and history of science. Kuhn transformed the philosophy and history of science in the twentieth century in an irrevocable way and still provides an important alternative to formalist approaches in the philosophy of science. In Kuhn's *The Structure of Scientific Revolutions* A Reader's Guide John Preston offers a clear and thorough account of this key philosophical work. The book offers a detailed review of the key themes and a lucid commentary that will enable readers to rapidly navigate the text. The guide explores the complex and important ideas inherent in the text and provides a cogent survey of the reception and influence of Kuhn's work. Kuhn's Structure of Scientific Revolutions - 50 Years On William J. Devlin, Alisa Bokulich, 2015-05-18 In 1962 the publication of Thomas Kuhn's *Structure* revolutionized the way one conducts philosophical and historical studies of science. Through the introduction of both memorable and controversial notions such as paradigms, scientific revolutions, and incommensurability, Kuhn argued against the traditionally accepted notion of scientific change as a progression towards the truth about nature and instead substituted the idea that science is a puzzle-solving activity operating under paradigms which become discarded after it fails to respond accordingly to anomalous challenges and a rival paradigm. Kuhn's *Structure* has sold over 1.4 million copies and the *Times Literary Supplement* named it one of the Hundred Most Influential Books since the Second World War. Now fifty years after this groundbreaking work was published, this volume offers a timely reappraisal of the legacy of Kuhn's book and an investigation into what *Structure* offers philosophical, historical, and sociological studies of science in the future. **Defining Science** Charles Alan Taylor, 1996 The most interesting entry point to the demarcation problem in science since Popper's seminal formulation. Steve Fuller, Professor of Sociology, Social Policy, Durham University. What is science? What isn't science? And who draws the line between them? These are rhetorical concerns as Charles A. Taylor demonstrates in this ambitious book about the theoretical and cultural underpinnings of scientific practice. By showing how boundaries between science and nonscience are rhetorically constructed and socially enforced, *Defining Science* reveals the political and philosophical significance of such distinctions. Taylor examines the traditional demarcation problem, the problem of defining the boundaries of science as an ongoing rhetorical negotiation involving a full range of historical interests and social actors, from researchers and lab technicians to governmental and industrial patrons, program administrators, political representatives, journalists, and educators. His case studies of the recent debates over creationism and cold fusion clearly demonstrate how the rhetorical dynamics of science operate within different fields. In both cases presented here, with concision and insight, prevailing demarcations or defining portrayals of science emerge as far more nuanced than traditional accounts allow. Taylor analyzes traditional approaches to demarcation in science in order to incorporate their insights into his larger rhetorical view. His

reformulation of philosophical historical and sociological accounts of science clearly illustrates the intellectual value of an interdisciplinary rhetoric of demarcation Furthermore Defining Science suggests how we as a community can positively influence future constructions of science and society This book confronts what is arguably the late twentieth century's definitive problem in a provocative and interesting way It will be of interest to anyone engaged with the question of knowledge in public life Charles Arthur Willard Professor and Chair of the Department of Communication University of Louisville

Critical Appraisal of Physical Science as a Human Enterprise Mansoor Niaz,2009-02-07 It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist's theoretical framework or presuppositions Holton 1969a has deplored the widely accepted myth of experimenticism according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from unambiguous experimental data Surprisingly some of the leading scientists themselves Millikan is a good example have contributed to perpetuate the myth with respect to modern science being essentially empirical that is carefully tested experimental facts free of a priori conceptions leading to inductive generalizations Based on the existing knowledge in a field of research a scientist formulates the guiding assumptions Laudan et al 1988 presuppositions Holton 1978 1998 and hard core Lakatos 1970 of the research program that constitutes the imperative of presuppositions which is not abandoned in the face of anomalous data Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline philosophy of science without history of science is empty Starting in the 1960s this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century Among other aspects one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this monograph Chapter 2

Dictionary of Modern American Philosophers John R. Shook,2005-01-01 The Dictionary of Modern American Philosophers includes both academic and non academic philosophers and a large number of female and minority thinkers whose work has been neglected It includes those intellectuals involved in the development of psychology pedagogy sociology anthropology education theology political science and several other fields before these disciplines came to be considered distinct from philosophy in the late nineteenth century Each entry contains a short biography of the writer an exposition and analysis of his or her doctrines and ideas a bibliography of writings and suggestions for further reading While all the major post Civil War philosophers are present the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers In many cases the Dictionary of Modern American Philosophers offers the first scholarly treatment of the life and work of certain writers This book will be an indispensable reference work for scholars working on almost any aspect of modern American thought

Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society Cognitive Science Society (US) Conference,2014-05-12 This volume features the complete text of all regular papers posters and summaries of

symposia presented at the 14th annual meeting of the Cognitive Science Society **Handbook of Research Methods in Experimental Psychology** Stephen F. Davis, 2008-04-15 The Handbook of Research Methods in Experimental Psychology presents a comprehensive and contemporary treatment of research methodologies used in experimental psychology Places experimental psychology in historical context investigates the changing nature of research methodology experimental design and analytic procedures and features research in selected content areas Provides an excellent source of potential research ideas for advanced undergraduate and beginning graduate students Illustrates the range of research methodologies used in experimental psychology Contains contributions written by leading researchers Now available in full text online via xreferplus the award winning reference library on the web from xrefer For more information visit www.xreferplus.com

Why Science Matters Robert W. Proctor, E. J. Capaldi, 2008-04-15 *Why Science Matters* Understanding the Methods of Psychological Research rises above standard research methods texts by presenting an up to date view of contemporary psychological science as it is currently understood and practiced Explores not only the procedural aspects of psychological research but also delves into the issue of how to accomplish effective science Explicates how hypotheses and theories are to be evaluated Suggests that the proper approach to devising and evaluating theories is by abduction not by induction or deduction alone Incorporates new investigatory procedures current methodologists conflicts and issues implications of the philosophy of science and a lively prose style Provides a picture of science that will engage students and expand their abilities as both scientists and psychologists **No Truth Except in the Details** A.J. Kox, D.M. Siegel, 1995-06-30 Beginning with a couple of essays dealing with the experimental and mathematical foundations of physics in the work of Henry Cavendish and Joseph Fourier the volume goes on to consider the broad areas of investigation that constituted the central foci of the development of the physics discipline in the nineteenth century electricity and magnetism including especially the work of Michael Faraday William Thomson and James Clerk Maxwell and thermodynamics and matter theory including the theoretical work and legacy of Josiah Willard Gibbs some experimental work relating to thermodynamics and kinetic theory of Heinrich Hertz and the work of Felix Seyler Hoppe on hemoglobin in the neighboring field of biophysics biochemistry Moving on to the beginning of the twentieth century a set of three articles on Albert Einstein deal with his early career and various influences on his work Finally a set of historiographical issues important for the history of physics are discussed and the chronological conclusion of the volume is an article on the Solvay Conference of 1933 For physicists interested in the history of their discipline historians and philosophers of science and graduate students in these and related disciplines

How Successful is Naturalism? Georg Gasser, 2013-05-02 Naturalism is the reigning creed in analytic philosophy Naturalists claim that natural science provides a complete account of all forms of existence According to the naturalistic credo there are no aspects of human existence which transcend methods and explanations of science Our concepts of the self the mind subjectivity human freedom or responsibility is to be defined in terms of established sciences The aim of the present

volume is to draw the balance of naturalism's success so far. Unlike other volumes it does not contain a collection of papers which unanimously reject naturalism. Naturalists and anti-naturalists alike unfold their positions discussing the success or failure of naturalistic approaches. How successful is naturalism shows where the lines of agreement and disagreement between naturalists and their critics are to be located in contemporary philosophical discussion. With contributions of Rudder Lynne Baker, Johannes Brandl, Helmut Fink, Ulrich Frey, Georg Gasser, Matthias Stefan, Peter S. M. Hacker, Winfried Löffler, Nancey Murphy, Josef Quitterer, Michael Rea, Thomas Sukopp, Konrad Talmont-Kaminski, and Gerd Vollmer.

Making 20th Century Science Stephen G. Brush, Ariel Segal, 2015. Historically the scientific method has been said to require proposing a theory, making a prediction of something not already known, testing the prediction and giving up the theory or substantially changing it if it fails the test. A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood. This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation. But does science really work this way? In *Making 20th Century Science* Stephen G. Brush discusses this question as it relates to the development of science throughout the last century. Answering this question requires both a philosophically and historically scientific approach, and Brush blends the two in order to take a close look at how scientific methodology has developed. Several cases from the history of modern physical and biological science are examined, including Mendeleev's Periodic Law, Kekulé's structure for benzene, the light quantum hypothesis, quantum mechanics, chromosome theory, and natural selection. In general, it is found that theories are accepted for a combination of successful predictions and better explanations of old facts. *Making 20th Century Science* is a large-scale historical look at the implementation of the scientific method and how scientific theories come to be accepted.

Theories of Scientific Method Robert Nola, Howard Sankey, 2014-12-18. What is it to be scientific? Is there such a thing as scientific method? And if so, how might such methods be justified? Robert Nola and Howard Sankey seek to provide answers to these fundamental questions in their exploration of the major recent theories of scientific method. Although for many scientists their understanding of method is something they just pick up in the course of being trained, Nola and Sankey argue that it is possible to be explicit about what this tacit understanding of method is, rather than leave it as some unfathomable mystery. They robustly defend the idea that there is such a thing as scientific method and show how this might be legitimated. This book begins with the question of what methodology might mean and explores the notions of values, rules, and principles before investigating how methodologists have sought to show that our scientific methods are rational. Part 2 of this book sets out some principles of inductive method and examines its alternatives, including abduction, IBE, and hypothetico-deductivism. Part 3 introduces probabilistic modes of reasoning, particularly Bayesianism in its various guises, and shows how it is able to give an account of many of the values and rules of method. Part 4 considers the ideas of philosophers who have proposed distinctive theories of method, such as Popper.

Lakatos Kuhn and Feyerabend and Part 5 continues this theme by considering philosophers who have proposed naturalised theories of method such as Quine Laudan and Rescher This book offers readers a comprehensive introduction to the idea of scientific method and a wide ranging discussion of how historians of science philosophers of science and scientists have grappled with the question over the last fifty years

Logic and Scientific Methods Maria Luisa Dalla Chiara, Kees Doets, Daniele Mundici, Johan van Benthem, 2013-06-29 This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic Methodology and Philosophy of Science held in Florence August 1995 The Congress was held under the auspices of the International Union of History and Philosophy of Science Division of Logic Methodology and Philosophy of Science The invited lectures published in the two volumes demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic as well as their interfaces with computer science linguistics and philosophy Philosophy of science is broadly represented too including general issues of natural sciences social sciences and humanities The papers in Volume One are concerned with logic mathematical logic the philosophy of logic and mathematics and computer science

Science and Selection David L. Hull, 2001 One way to understand science is as a selection process David Hull one of the dominant figures in contemporary philosophy of science sets out in this 2001 volume a general analysis of this selection process that applies equally to biological evolution the reaction of the immune system to antigens operant learning and social and conceptual change in science Hull aims to distinguish between those characteristics that are contingent features of selection and those that are essential Science and Selection brings together many of David Hull's most important essays on selection some never before published in one accessible volume

Action and Reaction Paul Theerman, Adele F. Seeff, 1993-04 The volume opens with an essay by Richard S Westfall that justifies claims that Newton was the culmination of the scientific revolution The I Bernard Cohen essay that follows illustrates the difference between mathematical principles and natural philosophy Two complementary papers give new insights into the Newtonian foundations of celestial mechanics William Harper analyzes Newton's argument for universal gravitation from the perspective of a philosopher of science Michael S Mahoney discusses the mathematical aspects of Newton's use of force law to determine planetary orbits

Vitalizing Nature in the Enlightenment Peter H. Reill, 2005-06-06 This far reaching study redraws the intellectual map of the Enlightenment and boldly reassesses the legacy of that highly influential period for us today Peter Hanns Reill argues that in the middle of the eighteenth century a major shift occurred in the way Enlightenment thinkers conceived of nature that caused many of them to reject the prevailing doctrine of mechanism and turn to a vitalistic model to account for phenomena in natural history the life sciences and chemistry As he traces the ramifications of this new way of thinking through time and across disciplines Reill provocatively complicates our understanding of the way key Enlightenment thinkers viewed nature His sophisticated analysis ultimately

questions postmodern narratives that have assumed a monolithic Enlightenment characterized by the dominance of instrumental reason that has led to many of the disasters of modern life

Critical Scientific Realism Ilkka

Niiniluoto, 1999-12-09 Ilkka Niiniluoto comes to the rescue of scientific realism showing that reports of its death have been greatly exaggerated Philosophical realism holds that the aim of a particular discourse is to make true statements about its subject matter Niiniluoto surveys the different varieties of realism in ontology semantics epistemology theory construction and methodology He then sets out his own original version and defends it against competing theories in the philosophy of science Niiniluoto's critical scientific realism is founded upon the notion of truth as correspondence between language and reality and characterizes scientific progress in terms of increasing truthlikeness This makes it possible not only to take seriously but also to make precise the troublesome idea that scientific theories typically are false but nevertheless close to the truth

Thomas Kuhn Thomas Nickles, 2003 Publisher Description

Kuhn's Evolutionary Social Epistemology K.

Brad Wray, 2011-09-29 Kuhn's Structure of Scientific Revolutions 1962 has been enduringly influential in philosophy of science challenging many common presuppositions about the nature of science and the growth of scientific knowledge However philosophers have misunderstood Kuhn's view treating him as a relativist or social constructionist In this book Brad Wray argues that Kuhn provides a useful framework for developing an epistemology of science that takes account of the constructive role that social factors play in scientific inquiry He examines the core concepts of Structure and explains the main characteristics of both Kuhn's evolutionary epistemology and his social epistemology relating Structure to Kuhn's developed view presented in his later writings The discussion includes analyses of the Copernican revolution in astronomy and the plate tectonics revolution in geology The book will be useful for scholars working in science studies sociologists and historians of science as well as philosophers of science

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