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# SCRUTINIZING SCIENCE

Empirical Studies of Scientific Change

*Edited by Arthur Donovan,  
Larry Laudan and Rachel Laudan*

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# Scrutinizing Science

**Stephen G. Brush, Ariel Segal**



## **Scrutinizing Science:**

*Scrutinizing Science* A. Donovan, R. Laudan, 2012-12-06      *A House Built on Sand* Noretta Koertge, 1998-08-27 Cultural critics say that science is politics by other means arguing that the results of scientific inquiry are profoundly shaped by the ideological agendas of powerful elites They base their claims on historical case studies purporting to show the systematic intrusion of sexist racist capitalist colonialist and or professional interests into the very content of science Physicist Alan Sokal recently poked fun at these claims by foisting a sly parody of the genre on the unwitting editors of the cultural studies journal *Social Text* touching off a still unabated torrent of editorials articles and heated classroom and Internet discussion This hard hitting collection picks up where Sokal left off The essayists offer crisp and detailed critiques of case studies offered by the cultural critics as evidence that scientific results tell us more about social context than they do about the natural world Pulling no punches they identify numerous crude factual blunders e g that Newton never performed any experiments and egregious errors of omission such as the attempt to explain the slow development of fluid dynamics solely in terms of gender bias Where there are positive aspects of a flawed account or something to be learned from it they do not hesitate to say so Their target is shoddy scholarship Comprising new essays by distinguished scholars of history philosophy and science including Sokal himself this book raises a lively debate to a new level of seriousness      **Hermeneutic**

**Philosophy of Science, Van Gogh's Eyes, and God** B.E. Babich, 2013-06-29 perceptual essences that can be rendered directly manifest in perception with the help of theoretically structured instruments serving as readable technologies Scientific knowledge should thus be understood as an extension of unassisted perception A perceptual fact has an outer horizon which separates it from the ground on which it appears and an inner horizon composed of a multiplicity of possible perceptual profiles organized by an invariant essence The perceiving subject can bring forth a representative sample of the profiles in question occasionally by making use of certain technological processes which are themselves subject to interpretation in terms of theoretical representations The theoretical entities described in these representations are not simply detected thanks to an inferential operation but rather they are directly perceived It follows from this that the correspondence between the manifest image and the scientific image is not done one to one but by a many to one or one to many application between contextually defined perceptual objects within contexts that are mutually incompatible but complementary This should not however be understood as a form of conventionalism nor as a form of cultural relativism Pre comprehension which guides interpretation imposes strict limits to the descriptive categories which can be used and to the manner in which they can be linked to appropriate empirical objects The author applies his hermeneutic principles to the study of visual perception In fact this question is treated in the first part of the book      **Innovating Science Teacher**

**Education** Mansoor Niaz, 2010-09-13 How teachers view the nature of scientific knowledge is crucial to their understanding of science content and how it can be taught This book presents an overview of the dynamics of scientific progress and its

relationship to the history and philosophy of science and then explores their methodological and educational implications and develops innovative strategies based on actual classroom practice for teaching topics such as the nature of science conceptual change constructivism qualitative quantitative research and the role of controversies presuppositions speculations hypotheses and predictions Field tested in science education courses this book is designed to involve readers in critically thinking about the history and philosophy of science and to engage science educators in learning how to progressively introduce various aspects of science in the making in their classrooms to promote discussions highlighting controversial historical episodes included in the science curriculum and to expose their students to the controversies and encourage them to support defend or critique the different interpretations Innovating Science Teacher Education offers guidelines to go beyond traditional textbooks curricula and teaching methods and innovate with respect to science teacher education and classroom teaching

**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

**Magic, Science, and Empire in Postcolonial Literature** Kathleen Renk, 2012-03-29 This book examines the ways in which contemporary British and British postcolonial writers in the after empire era draw connections between magic defined here as Renaissance Hermetic philosophy and science Writers such as Tom Stoppard Zadie Smith and Margaret Atwood critique both imperial science or science used in service to empire and what Renk calls imperical science a distortion of rational science which denies that reality is holistic and claims that nature can and should be conquered In warning of the dangers of imperical science these writers restore the connection between magic and science as they examine major shifts in scientific thinking across the centuries They reflect on the Copernican Revolution and the historic split between magic and science scrutinize Darwinism consider the relationship between Victorian science and pseudo science analyze twentieth century Uncertainty theories

reject bio genetic engineering call for a new approach to science that reconnects science and art and ultimately endeavor to bring an end to the imperial age Overall these writers forge a new discourse that merges science with the arts and emphasizes a holistic philosophy a view shared by both Hermetic philosophy and recent scientific theories such as chaos or complexity theory Along with recent books that focus on the relationship between contemporary literature and science this work focuses on contemporary British literature s critique of science and the ways in which postcolonial literature addresses the relationship between magic science and empire

**Nationalizing Science** Alan J. Roche, 2000-11-08 After looking at the early careers of Wurtz s two mentors Liebig and Jean Baptiste Dumas Roche describes Wurtz s life and career in the politically complex period leading up to 1853 He then discusses the turning point in Wurtz s intellectual life his conversion to the reformed chemistry of Laurent Gerhardt and Williamson and his efforts to persuade his colleagues of the advantages of the new system In 1869 Adolphe Wurtz 1817 1884 called chemistry a French science In fact however Wurtz was the most internationalist of French chemists Born in Strasbourg and educated partly in the laboratory of the great Justus Liebig he spent his career in Paris where he devoted himself to introducing German ideas into French scientific circles His life therefore provides an excellent vehicle for considering the divergent trajectories of French and German chemistry and by extension French and German science during this crucial period After looking at the early careers of Wurtz s two mentors Liebig and Jean Baptiste Dumas Roche describes Wurtz s life and career in the politically complex period leading up to 1853 He then discusses the turning point in Wurtz s intellectual life his conversion to the reformed chemistry of Laurent Gerhardt and Williamson and his efforts social and political as well as scientific to persuade his colleagues of the advantages of the new system He looks at political patronage or the lack thereof and at the insufficient material support from the French government during the middle decades of the century From there Roche goes on to examine the rivalry between Wurtz and Marcellin Berthelot the debate over atoms versus equivalents and the reasons for Wurtz s failure to win acceptance for his ideas The story offers insights into the changing status of science in this period and helps to explain the eventual course of both French and German chemistry

**The Routledge Companion to Philosophy of Social Science** Lee McIntyre, Alex Rosenberg, 2016-12-08 37 Why Is There No Philosophy of Political Science

Science and the Production of Ignorance Janet Kourany, Martin Carrier, 2020-02-18 An introduction to the new area of ignorance studies that examines how science produces ignorance both actively and passively intentionally and unintentionally We may think of science as our foremost producer of knowledge but for the past decade science has also been studied as an important source of ignorance The historian of science Robert Proctor has coined the term agnotology to refer to the study of ignorance and much of the ignorance studied in this new area is produced by science Whether an active or passive construct intended or unintended this ignorance is in Proctor s words made maintained and manipulated by science This volume examines forms of scientific ignorance and their consequences A dialogue between Proctor and Peter Galison offers historical context presenting the

concerns and motivations of pioneers in the field Essays by leading historians and philosophers of science examine the active construction of ignorance by biased design and interpretation of experiments and empirical studies as seen in the false advertising by climate change deniers the virtuous construction of ignorance for example by curtailing research on race and gender related cognitive differences and ignorance as the unintended by product of choices made in the research process when rules incentives and methods encourage an emphasis on the beneficial and commercial effects of industrial chemicals and when certain concepts and even certain groups interests are inaccessible in a given conceptual framework Contributors Martin Carrier Carl F Cranor Peter Galison Paul Hoyningen Huene Philip Kitcher Janet Kourany Hugh Lacey Robert Proctor Londa Schiebinger Miriam Solomon Torsten Wilholt      **Science and Relativism** Larry Laudan, 2012-08-06 In recent years many members of the intellectual community have embraced a radical relativism regarding knowledge in general and scientific knowledge in particular holding that Kuhn Quine and Feyerabend have knocked the traditional picture of scientific knowledge into a cocked hat Is philosophy of science or mistaken impressions of it responsible for the rise of relativism In this book Laudan offers a trenchant wide ranging critique of cognitive relativism and a thorough introduction to major issues in the philosophy of knowledge      **Structures in Science** Theo A.F. Kuipers, 2012-12-06 Although there is an abundance of highly specialized monographs learned collections and general introductions to the philosophy of science only a few 25 years synthetic monographs and advanced textbooks have appeared in the last The philosophy of science seems to have lost its self confidence The main reason for such a loss is that the traditional analytical logical empiricist approaches to the philosophy of science had to make a number of concessions especially in response to the work of Popper Kuhn and Lakatos With Structures in Science I intend to present both a synthetic monograph and an advanced textbook that accommodates and integrates the insight of these philosophers in what I like to call a neo classical approach The resulting monograph elaborates several important topics from one or more perspectives by distinguishing various kinds of research programs and various ways of explaining and reducing laws and concepts and by summarizing an integrated explication presented in From Instrumentalism to Constructive Realism ICR of the notions of confirmation empirical progress and truth approximation      **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      **Science as Practice and Culture** Andrew Pickering, 2010-11-15 Science as Practice and

Culture explores one of the newest and most controversial developments within the rapidly changing field of science studies the move toward studying scientific practice the work of doing science and the associated move toward studying scientific culture understood as the field of resources that practice operates in and on Andrew Pickering has invited leading historians philosophers sociologists and anthropologists of science to prepare original essays for this volume The essays range over the physical and biological sciences and mathematics and are divided into two parts In part I the contributors map out a coherent set of perspectives on scientific practice and culture and relate their analyses to central topics in the philosophy of science such as realism relativism and incommensurability The essays in part II seek to delineate the study of science as practice in arguments across its borders with the sociology of scientific knowledge social epistemology and reflexive ethnography

**Logic and Philosophy of Science in Uppsala** D. Prawitz, Dag Westerståhl, 2013-06-29 The International Congresses of Logic Methodology and Philosophy of Science which are held every fourth year give a cross section of ongoing research in logic and philosophy of science Both the invited lectures and the many contributed papers are conducive to this end At the 9th Congress held in Uppsala in 1991 there were 54 invited lectures and around 650 contributed papers divided into 15 different sections Some of the speakers who presented contributed papers that attracted special interest were invited to submit their papers for publication and the result is the present volume A few papers appear here more or less as they were presented at the Congress whereas others are expansions or elaborations of the talks given at the Congress A selection of this kind containing 38 papers drawn from the 650 contributed papers presented at the Uppsala Congress cannot do justice to all facets of the field as it appeared at the Congress But it should allow the reader to get a representative survey of contemporary research in large areas of philosophical logic and philosophy of science About half of the papers of the volume appear in sections listed at the Congress under the heading Philosophical and Foundational Problems about the Sciences The section Foundations of Logic Mathematics and Computer Science is represented by three papers Foundations of Physical Sciences by six papers Foundations of Biological Sciences by three papers Foundations of Cognitive Science and AI by one paper and Foundations of Linguistics by three papers Philosophy, Science, and History Lydia Patton, 2014-06-27

Philosophy Science and History A Guide and Reader is a compact overview of the history and philosophy of science that aims to introduce students to the groundwork of the field and to stimulate innovative research The general introduction focuses on scientific theory change assessment discovery and pursuit Part I of the Reader begins with classic texts in the history of logical empiricism including Reichenbach's discovery justification distinction With careful reference to Kuhn's analysis of scientific revolutions the section provides key texts analyzing the relationship of HOPOS to the history of science including texts by Santayana Rudwick and Shapin and Schaffer Part II provides texts illuminating central debates in the history of science and its philosophy These include the history of natural philosophy Descartes Newton Leibniz Kant Hume and du Châtelet in a new translation induction and the logic of discovery including the Mill Whewell debate Duhem and Hanson and

catastrophism versus uniformitarianism in natural history Playfair on Hutton and Lyell de Buffon Cuvier and Darwin The editor s introductions to each section provide a broader perspective informed by contemporary research in each area including related topics Each introduction furnishes proposals including thematic bibliographies for innovative research questions and projects in the classroom and in the field *The Past, Present, and Future of Integrated History and Philosophy of Science* Emily Herring, Kevin Jones, Konstantin Kiprijanov, Laura Sellers, 2019-05-14 Integrated History and Philosophy of Science iHPS is commonly understood as the study of science from a combined historical and philosophical perspective Yet since its gradual formation as a research field the question of how to suitably integrate both perspectives remains open This volume presents cutting edge research from junior iHPS scholars and in doing so provides a snapshot of current developments within the field explores the connection between iHPS and other academic disciplines and demonstrates some of the topics that are attracting the attention of scholars who will help define the future of iHPS *The Role of Moral Reasoning on Socioscientific Issues and Discourse in Science Education* Dana L. Zeidler, 2007-04-29 This is the first book to address moral reasoning and socioscientific discourse It provides a theoretical framework to reconsider what a functional view of scientific literacy entails by examining how nature of science issues classroom discourse issues cultural issues and science technology society environment case based issues contribute to habits of mind about socioscientific content The text covers philosophical psychological and pedagogical considerations underpinning moral reasoning as well as the status of socioscientific issues in science education ***Science, Method, and Argument in Galileo*** Maurice A. Finocchiaro, 2021-08-28 This book collects a renowned scholar s essays from the past five decades and reflects two main concerns an approach to logic that stresses argumentation reasoning and critical thinking and that is informal empirical naturalistic practical applied concrete and historical and an interest in Galileo s life and thought his scientific achievements Inquisition trial and methodological lessons in light of his iconic status as father of modern science These republished essays include many hard to find articles out of print works and chapters which are not available online The collection provides an excellent resource of the author s lifelong dedication to the subject Thus the book contains critical analyses of some key Galilean arguments about the laws of falling bodies and the Copernican hypothesis of the earth s motion There is also a group of chapters in which Galileo s argumentation is compared and contrasted with that of other figures such as Socrates Karl Marx Giordano Bruno and his musicologist father Vincenzo Galilei The chapters on Galileo s trial illustrate an approach to the science vs religion issue which Finocchiaro labels para clerical and conceptualizes in terms of a judicious consideration of arguments for and against Galileo and the Church Other essays examine argumentation about Galileo s life and thought by the major Galilean scholars of recent decades The book will be of interest to scholars in philosophy logic philosophy of science history of science history of religion philosophy of religion argumentation rhetoric and communication studies

*Innovation, Science, Environment 06/07* G. Bruce Doern, 2006-02-14 Topics include the Martin liberals and changing ISE



policies the federal sustainable development strategy process the National Research Council s response to changing federal agendas a comparison of Canadian and UK innovation strategies the Natural Sciences and Engineering Research Council and the Social Sciences and Humanities Research Council innovation strategy and the mining supply and service sector environmental industries and the role of the Canadian Environmental Technology Advancement Centres local innovation and source water protection and information disclosure as an environmental policy instrument     *Science and Judicial Reasoning* Katalin Sulyok,2020-10-29 This pioneering study on environmental case law examines how courts engage with science and reviews legitimate styles of judicial reasoning

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