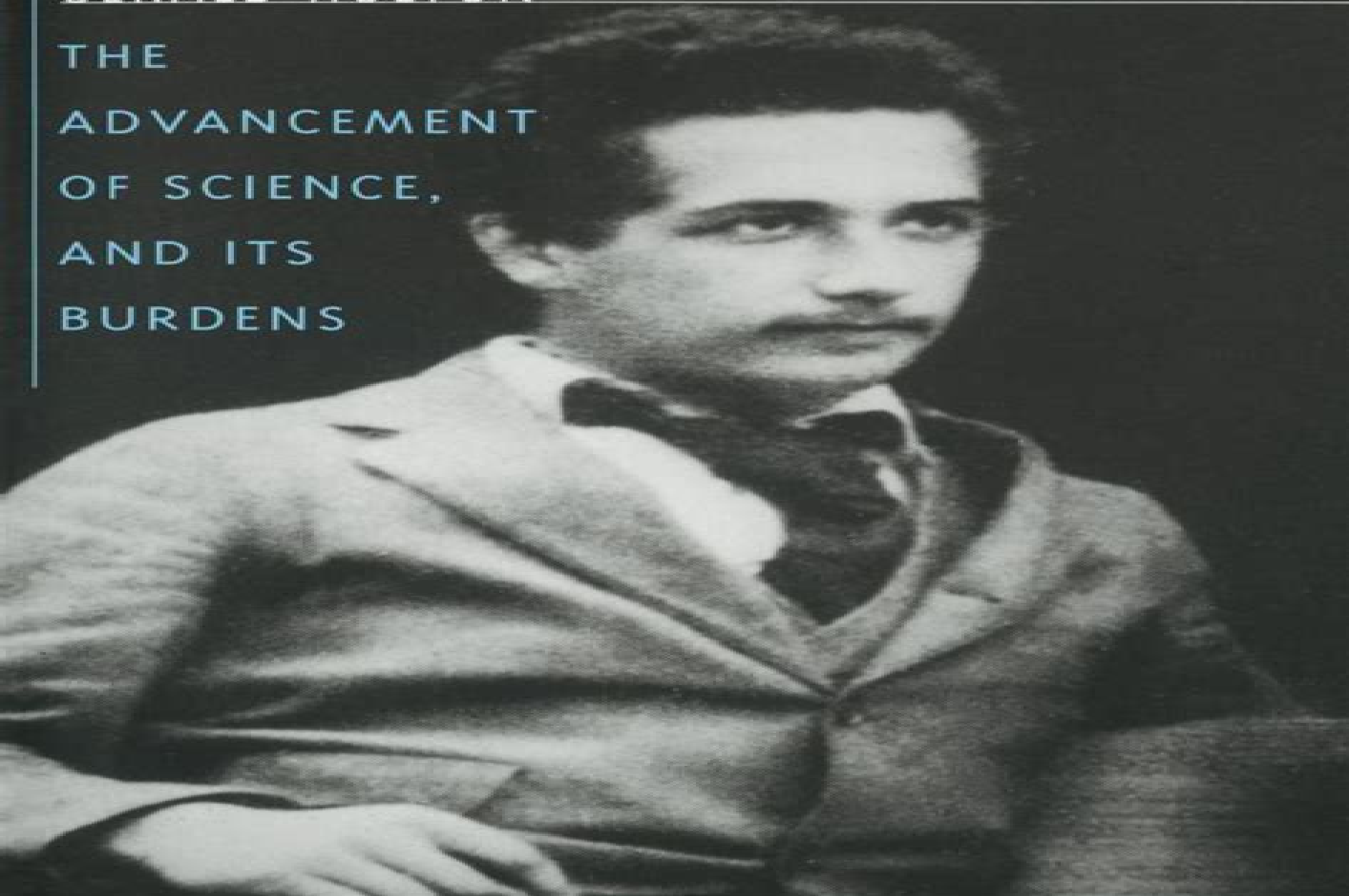


GERALD HOLTON

THE
ADVANCEMENT
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WITH A NEW INTRODUCTION

The Advancement Of Science And Its Burdens

Thomas Baldwin



The Advancement Of Science And Its Burdens:

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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 experimentalism, 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) presupposes Holton (1978, 1998) and 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 Quest for the Unity of Knowledge David Lowenthal, 2018-11-01 Is unity of knowledge possible? Is it desirable? Two rival visions clash. One seeks a single way of explaining everything known and knowable about ourselves and the universe. The other champions diverse modes of understanding served by disparate kinds of evidence. Contrary views pit science against the arts and humanities. Scientists generally laud and seek convergence. Artists and humanists deplore amalgamation as a threat to humane values. These opposing perspectives flamed into hostility in the 1950s. Two Cultures clash. They culminate today in new efforts to conjoin insights into physical nature and human culture and new fears lest such syntheses submerge what the arts and humanities most value. This book, stemming from David Lowenthal's inaugural Stockholm Archipelago Lectures, explores the Two Cultures quarrels underlying ideologies. Lowenthal shows how ingrained bias toward unity or diversity shapes major issues in education, religion, genetics, race relations, heritage, governance, and

environmental policy Aimed at a general academic audience Quest for the Unity of Knowledge especially targets those in conservation ecology history of ideas museology and heritage studies

Scientific Values and Civic Virtues Noretta Koertge, 2005-08-04 This volume of contributed essays a follow up to Noretta Koertge's successful book on the science wars *A House Built on Sand* takes an affirming positive view of the relationship between the values embodied in science and the nature of a civil society It argues that recent attacks on the probity of science undermine the possibility of rational discourse in the political arena While science has traditionally been viewed as incorporating intellectual virtues like honesty and precision of language the contributors to this volume point to additional benefits examining the idea that science can serve as a source of and inspiration for civic virtues in the need to be well informed about the way the world works in tolerating the viewpoints of others and in functioning as a fully global enterprise dedicated to the public good The contributors who include philosophers political scientists physicists biologists and engineers look at examples of scientific virtues in action and how they might be used as inspirations and practical resources for improving civic society The volume will appeal to a similarly broad audience interested in the relationship between science and society

Between History and Method S. Amsterdamski, 2013-06-29 In this book I have tried to develop further the ideas expressed in my previous work *Between Experience and Metaphysics* which was published in the same series in 1975 Several years have passed since the original Polish edition and then 1 the Italian translation of this book appeared The fact that the principal ideas expressed in it have withstood as I see it the brunt of criticism has led me to remain basically with the original text Two main changes have however been introduced First I have added an Appendix containing the original version of a paper I presented at the Wissenschaftskolleg zu Berlin in June 1988 and a short postscript to that paper referring to comments made during two discussions at the Kolleg Let me briefly explain the reason for this addition In recent years the landscape for historical and philosophical interpretation of the evolution of scientific knowledge has altered The strongest of the new contenders for epistemological recognition are social constructivists who analyze in detail how knowledge is produced within specific social settings including the instruments and procedures of particular laboratories and the economic and political realities of particular scientific communities The local character of these studies raises the question of whether they can ever provide generalizable epistemological claims

Critical Analysis of Science Textbooks Myint Swe Khine, 2013-06-26 The critical analysis of science textbooks is vital in improving teaching and learning at all levels in the subject and this volume sets out a range of academic perspectives on how that analysis should be done Each chapter focuses on an aspect of science textbook appraisal with coverage of everything from theoretical and philosophical underpinnings methodological issues and conceptual frameworks for critical analysis to practical techniques for evaluation Contributions from many of the most distinguished scholars in the field give this collection its sure footed contemporary relevance reflecting the international standards of UNESCO as well as leading research organizations such as the American Association for the Advancement of

Science whose Project 2061 is an influential waypoint in developing protocols for textbook analysis Thus the book shows how to gauge aspects of textbooks such as their treatment of controversial issues graphical depictions scientific historiography vocabulary usage accuracy and readability The content also covers broader social themes such as the portrayal of women and minorities Despite newer more active pedagogies textbooks continue to have a strong presence in classrooms and to embody students socio historical inheritance in science Despite their ubiquitous presence they have received relatively little on going empirical study It is imperative that we understand how textbooks influence science learning This book presents a welcome and much needed analysis Tina A Grotzer Harvard University Cambridge Massachusetts USA The present book provides a much needed survey of the current state of research into science textbooks and offers a widerange of perspectives to inform the science of writing better science textbooks Keith S Taber University of Cambridge Cambridge United Kingdom

Theories of Scientific Progress John Losee,2004-06 There seems little doubt that we have made progress in scientific theories but how Theories of Scientific Progress presents the arguments covers interpretations of scientific progress and discusses the latest contemporary debates **The Nuclear Muse** John Canaday,2000 Canaday a poet and playwright who has been a Watson Fellow and a Starbuck Fellow in Poetry at Boston University analyzes a variety of texts produced by physicists before during and after WWII including Niels Bohr s The Quantum Postulate the technical lectures used for training at Los Alamos scientist s descriptions of their work and of the Trinity test and Leo Szilard s postwar novella The Voice of the Dolphins He looks at physicists use of figurative language in the development of quantum theory and examines the role played by the rhetorics of exploration and religion in the construction of the Los Alamos community Includes bandw historical photos Annotation copyrighted by Book News Inc Portland OR **The Interplay Between Scientific and**

Theological Worldviews Niels Henrik Gregersen,Ulf Görman,Christoph Wassermann,1999 *The Scientific Imagination* Gerald James Holton,1998 Using firsthand accounts gleaned from notebooks interviews and correspondence of such twentieth century scientists as Einstein Fermi and Millikan Holton shows how the idea of the scientific imagination has practical implications for the history and philosophy of science and the larger understanding of the place of science in our culture The Role of Laboratory Work in Improving Physics Teaching and Learning Dagmara Sokołowska,Marisa Michelini,2018-11-03 This book explores in detail the role of laboratory work in physics teaching and learning Compelling recent research work is presented on the value of experimentation in the learning process with description of important research based proposals on how to achieve improvements in both teaching and learning The book comprises a rigorously chosen selection of papers from a conference organized by the International Research Group on Physics Teaching GIREP an organization that promotes enhancement of the quality of physics teaching and learning at all educational levels and in all contexts The topics covered are wide ranging Examples include the roles of open inquiry experiments and advanced lab experiments the value of computer modeling in physics teaching the use of web based interactive video activities and

smartphones in the lab the effectiveness of low cost experiments and assessment for learning through experimentation The presented research based proposals will be of interest to all who seek to improve physics teaching and learning

The Genesis of General Relativity Jürgen Renn, 2007-02-16 This four volume work represents the most comprehensive documentation and study of the creation of general relativity Einstein's 1912 Zurich notebook is published for the first time in facsimile and transcript and commented on by today's major historians of science Additional sources from Einstein and others who from the late 19th to the early 20th century contributed to this monumental development are presented here in translation for the first time The volumes offer detailed commentaries and analyses of these sources that are based on a close reading of these documents supplemented by interpretations by the leading historians of relativity

The Cambridge Companion to Thomas Jefferson Frank Shuffelton, 2009-01-22 This Companion forms an accessible introduction to the life and work of Thomas Jefferson third President of the United States and author of the Declaration of Independence Essays explore Jefferson's political thought his policies towards Native Americans his attitude to race and slavery as well as his interests in science architecture religion and education Contributors include leading literary scholars and historians the essays offer up to date overviews of his many interests his friendships and his legacy Together they reveal his importance in the cultural and political life of early America At the same time these original essays speak to abiding modern concerns about American culture and Jefferson's place in it This Companion will be essential reading for students and scholars of Jefferson and is designed for use by students of American literature and American history

The Laboratory of the Mind James Robert Brown, 2011-04-06 Newton's bucket Einstein's elevator Schrödinger's cat these are some of the best known examples of thought experiments in the natural sciences But what function do these experiments perform Are they really experiments at all Can they help us gain a greater understanding of the natural world How is it possible that we can learn new things just by thinking In this revised and updated new edition of his classic text *The Laboratory of the Mind* James Robert Brown continues to defend apriorism in the physical world This edition features two new chapters one on counter thought experiments and another on the development of inertial motion With plenty of illustrations and updated coverage of the debate between Platonic rationalism and classic empiricism this is a lively and engaging contribution to the field of philosophy of science

Beyond the Meme Alan C. Love, William Wimsatt, 2019-09-03 Interdisciplinary perspectives on cultural evolution that reject meme theory in favor of a complex understanding of dynamic change over time How do cultures change In recent decades the concept of the meme posited as a basic unit of culture analogous to the gene has been central to debates about cultural transformation Despite the appeal of meme theory its simplification of complex interactions and other inadequacies as an explanatory framework raise more questions about cultural evolution than it answers In *Beyond the Meme* William C Wimsatt and Alan C Love assemble interdisciplinary perspectives on cultural evolution providing a nuanced understanding of it as a process in which dynamic structures interact on different scales of size and time By focusing on the

full range of evolutionary processes across distinct contexts from rice farming to scientific reasoning this volume demonstrates how a thick understanding of change in culture emerges from multiple disciplinary vantage points each of which is required to understand cultural evolution in all its complexity The editors provide an extensive introductory essay to contextualize the volume and Wimsatt contributes a separate chapter that systematically organizes the conceptual geography of cultural processes and phenomena Any adequate account of the transmission elaboration and evolution of culture must this volume argues recognize the central roles that cognitive and social development play in cultural change and the complex interplay of technological organizational and institutional structures needed to enable and coordinate these processes

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A History of Magnetism in Human Civilisation Indrajit G. Roy, 2024-01-29 Humans over many millennia have been intrigued with magnetism and continuously revealing its nature and association with other objects both animate and inanimate Started with reverence for its mystic power the beautiful minds soon find the means to harness it This book is an omnibus that helps one travel through time over many millennia until today while giving glimpses of human achievements in the Odyssey of human civilisation This is a scientific essay Nevertheless it offers a range of flavours such as the history of science philosophy social construct the early scientific revolution the impact of the Industrial Revolution the growth of modern science and discussion on scientific phenomena with no less scientific rigour while remaining simple and intelligible The book will be food for academic minds and a pleasant experience for general readers

The Cambridge History of Philosophy 1870-1945 Thomas Baldwin, 2003-11-27 Table of contents

The Poetry of Knowledge and the 'Two Cultures' John G. Fitch, 2018-05-16 This book argues that poetry is compatible with systematic knowledge including science and indeed inherent in it it also discusses particular poems that engage with such knowledge including those of Lucretius Vergil and Vita Sackville West The book argues that there are substantial similarities between knowledge making and poetry making for example in their being shaped by language including metaphor and in their seeking unity in the world under the impulse of eros and pleasure The book also discusses some of the obstacles to a poetry of knowledge including scientific objectivism the Kantian tradition in philosophy and the separation of the two cultures in our academic and intellectual institutions The book is designed to be accessible to all those interested in the issue of the two cultures or in the role of poetry and of science in contemporary culture

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