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# The Origins Of Science An Inquiry Into The Foundations Of Western Thought

***The Origins of Modern Science From  
Antiquity to the Scientific  
Revolution Cambridge University  
Press***

***The 67 chapters of this book  
describe and analyse the  
development of Western science  
from 1500 to the present day.  
Divided into two major sections -  
'The Study of the History of  
Science' and 'Selected Writings in  
the History of Science' - the volume  
describes the methods and  
problems of research in the field  
and then applies these techniques***

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***to a wide range of fields. Areas covered include: \* the Copernican Revolution \* Genetics \* Science and Imperialism \* the History of Anthropology \* Science and Religion \* Magic and Science. The companion is an indispensable resource for students and professionals in History, Philosophy, Sociology and the Sciences as well as the History of Science. It will also appeal to the general reader interested in an introduction to the subject.***

***Science is fantastic. It tells us about the infinite reaches of space, the tiniest living organism, the human body, the history of Earth. People have always been doing science because they have always wanted to make sense of the world and harness its power. From ancient***

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***Greek philosophers through Einstein and Watson and Crick to the computer-assisted scientists of today, men and women have wondered, examined, experimented, calculated, and sometimes made discoveries so earthshaking that people understood the world—or themselves—in an entirely new way. This inviting book tells a great adventure story: the history of science. It takes readers to the stars through the telescope, as the sun replaces the earth at the center of our universe. It delves beneath the surface of the planet, charts the evolution of chemistry's periodic table, introduces the physics that explain electricity, gravity, and the structure of atoms. It recounts the scientific quest that revealed the DNA molecule and opened***

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***unimagined new vistas for exploration. Emphasizing surprising and personal stories of scientists both famous and unsung, A Little History of Science traces the march of science through the centuries. The book opens a window on the exciting and unpredictable nature of scientific activity and describes the uproar that may ensue when scientific findings challenge established ideas. With delightful illustrations and a warm, accessible style, this is a volume for young and old to treasure together.***

***For readers interested in the development of major scientific concepts and the role of science in the western world, here is the first conceptually organized historical dictionary of scientific thought. The***

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***purpose of the dictionary is to illuminate this history by providing a concise, single volume reference book of short historical accounts of the important themes, ideas, and discoveries of science. Its conceptual approach differentiates the dictionary from previous reference works such as books of scientific biography and makes it a convenient manual both for the general reader and for scientists interested in the origin of concepts in their own and other scientific fields. Originally published in 1982. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts***

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*The Scientists*

*From Antiquity to the Scientific  
Revolution*

*Science in Print*

*The Scientific Story of Creation*

*Books and the Sciences in History*

*Understanding Scientific Theories  
of Origins*

*Ever since the threads of  
seventeenth-century natural  
philosophy began to coalesce  
into an understanding of the  
natural world, printed*

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artifacts such as laboratory notebooks, research journals, college textbooks, and popular paperbacks have been instrumental to the development of what we think of today as "science." But just as the history of science involves more than recording discoveries, so too does the study of print culture extend beyond the mere cataloguing of books. In both disciplines, researchers attempt to comprehend how social structures of power, reputation, and meaning permeate both the written record and the intellectual scaffolding through which scientific debate takes

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*place. Science in Print brings together scholars from the fields of print culture, environmental history, science and technology studies, medical history, and library and information studies. This ambitious volume paints a rich picture of those tools and techniques of printing, publishing, and reading that shaped the ideas and practices that grew into modern science, from the days of the Royal Society of London in the late 1600s to the beginning of the modern U.S. environmental movement in the early 1960s. This volume, compiled in honor of Sam Schweber, an*



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outstanding historian of science, physicist and exceptional human being, offers a comprehensive survey of the present state of the history of science. It collects essays written by leading representatives in the field. The essays examine the state of the history of science today and issues related to its future.

The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals (Einstein), institutions and disciplines (Mathematics), general themes (Romantic Science) and central concepts

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(Paradigm and Fact). The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn.

Evidence for a purely Darwinian account of human origins is supposed to be overwhelming. But is it? In this provocative book, three scientists challenge the claim that undirected natural selection is capable of building a human being, critically assess fossil and genetic evidence that human beings share a common ancestor with apes, and

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*debunk recent claims that  
the human race could not  
have started from an  
original couple.*

*Science and the  
Enlightenment*

*Critical Problems in the  
History of Science*

*An Introduction to the  
History of Science*

*Companion to the History of  
Modern Science*

*Science and Human Origins*

*Essays on the History of  
Science and the Culture of  
Print*

In the 1980s, philosophical,  
historical and social studies of  
science underwent a change  
which later evolved into a turn to  
practice. Analysts of science were

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asked to pay attention to scientific practices in meticulous detail and along multiple dimensions, including the material, social and psychological. Following this turn, the interest in scientific practices continued to increase and had an indelible influence in the various fields of science studies. No doubt, the practice turn changed our conceptions and approaches of science, but what did it really teach us? What does it mean to study scientific practices? What are the general lessons, implications, and new challenges? This volume explores questions about the practice turn using both case studies and

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theoretical analysis. The case studies examine empirical and mathematical sciences, including the engineering sciences. The volume promotes interactions between acknowledged experts from different, often thought of as conflicting, orientations. It presents contributions in conjunction with critical commentaries that put the theses and assumptions of the former in perspective. Overall, the book offers a unique and diverse range of perspectives on the meanings, methods, lessons, and challenges associated with the practice turn. From five authors with over two decades of experience teaching

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origins together in the classroom, this is the first textbook to offer a full-fledged discussion of the scientific narrative of origins from the Big Bang through humankind, from biblical and theological perspectives. This work gives the reader a detailed picture of mainstream scientific theories of origins along with how they fit into the story of God's creative and redemptive action.

The Origins of Modern Science is the first synthetic account of the history of science from antiquity through the Scientific Revolution in many decades. Providing readers of all backgrounds and students of all disciplines with the

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tools to study science like a historian, Ofer Gal covers everything from Pythagorean mathematics to Newton's Principia, through Islamic medicine, medieval architecture, global commerce and magic. Richly illustrated throughout, scientific reasoning and practices are introduced in accessible and engaging ways with an emphasis on the complex relationships between institutions, beliefs and political structures and practices. Readers gain valuable new insights into the role that science plays both in history and in the world today, placing the crucial challenges to science and

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technology of our time within their historical and cultural context.

Though the publication of Kuhn's Structure of Scientific Revolutions seemed to herald the advent of a unified study of the history and philosophy of science, it is a hard fact that history of science and philosophy of science have increasingly grown apart.

Recently, however, there has been a series of workshops on both sides of the Atlantic (called '&HPS') intended to bring historians and philosophers of science together to discuss new integrative approaches. This is therefore an especially appropriate time to explore the



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problems with and prospects for integrating history and philosophy of science. The original essays in this volume, all from specialists in the history of science or philosophy of science, offer such an exploration from a wide variety of perspectives. The volume combines general reflections on the current state of history and philosophy of science with studies of the relation between the two disciplines in specific historical and scientific cases.

Problems and Prospects

Dictionary of the History of  
Science

Reader's Guide to the History of  
Science

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The Origins of Modern Science

A People's History of Science

Changing Perspectives in the

History of Science: Essays in

Honour of Joseph Needham

*A History of Chinese Science and  
Technology (Volumes 1, 2 & 3)*

*presents 44 individual lectures,*

*beginning with Ancient Chinese*

*Science and Technology in the*

*Process of Human Civilizations and*

*an Overview of Chinese Science and*

*Technology, and continuing with in-*

*depth discussions of several issues*

*in the History of Science and the*

*Needham Puzzle, interspersed with*

*topics on Astronomy, Arithmetic,*

*Agriculture and Medicine, The*

*Four Great Inventions, and various*

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*technological areas closely related to clothing, food, shelter and transportation. This book is the most authoritative work on the history of Chinese Science and Technology. It is the Winner of the China Book Award, the Shanghai Book Award (1st prize), and the Classical China International Publishing Project (GAPP, General Administration of Press and Publication of China) and offers an essential resource for academic researchers and non-experts alike. It originated with a series of 44 lectures presented to top Chinese leaders, which received very positive feedback. Written by top Chinese scholars in their respective fields*

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*from the Institute for the History of Natural Sciences, Chinese Academy of Sciences and many other respected Chinese organizations, the book is intended for scientists, researchers and postgraduate students working in the history of science, philosophy of science and technology, and related disciplines. Yongxiang Lu is a professor, former president and member of the Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE), and Vice Chairman of the National Congress of China. An account of the history of the social sciences since the late eighteenth century.*

*An account of European knowledge  
of the natural world, c.1500-1700.*

*Biographies of scientists carry an  
increasingly prominent role in  
today's publishing climate.*

*Traditional historical and  
sociological accounts of science are  
complemented by narratives that  
emphasize the importance of the  
scientific subject in the production  
of science. Not least is the  
realization that the role of science  
in culture is much more accessible  
when presented through the lives of  
its practitioners. Taken as a genre,  
such biographies play an important  
role in the public understanding of  
science. In recent years there has  
been an increasing number of*

*monographs and collections about biography in general and literary biography in particular. However, biographies of scientists, engineers and medical doctors have rarely been the topic of scholarly inquiry. As such this volume of essays will be welcomed by those interested in the genre of science biography, and who wish to re-examine its history, foundational problems and theoretical implications. Borrowing approaches and methods from cultural studies and the history, philosophy and sociology of science, the contributions cover a broad range of subjects, periods and locations. By presenting such a rich diversity of essays, the volume is*

*able to chart the reoccurring conceptual problems and devices that have influenced scientific biographies from classical antiquity to the present day. In so doing it provides a compelling overview of the history of the genre, suggesting that the different valuations given scientific biography over time have been largely fuelled by vested professional interests.*

*A History of Science, Technology and Philosophy in the 16th, 17th and 18th Centuries*

*Science after the Practice Turn in the Philosophy, History, and Social Studies of Science*

*A Brief History of Creation:  
Science and the Search for the*

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*Origin of Life*

*A Four Thousand Year History*  
*The History of Science Fiction*  
*Volume 1*

To understand modern science, it is essential to recognize that many of the most fundamental scientific principles are drawn from the knowledge of ancient civilizations. Taking a global yet comprehensive approach to this complex topic, *A History of Science in World Cultures* uses a broad range of case studies and examples to demonstrate that the scientific thought and method of the present day is



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deeply rooted in a pluricultural past. Covering ancient Egypt, Mesopotamia, India, Greece, China, Islam, and the New World, this volume discusses the scope of scientific and technological achievements in each civilization and how the knowledge it developed came to impact the European Renaissance. Themes covered include the influence these scientific cultures had upon one another, the power of writing and its technologies, visions of mathematical order in the universe and

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how it can be represented, and what elements of the distant scientific past we continue to depend upon today. Topics often left unexamined in histories of science are treated in fascinating detail, such as the chemistry of mummification and the Great Library in Alexandria in Egypt, jewellery and urban planning of the Indus Valley, hydraulic engineering and the compass in China, the sustainable agriculture and dental surgery of the Mayas, and algebra and optics in

Islam. This book shows that scientific thought has never been confined to any one era, culture, or geographic region. Clearly presented and highly illustrated, A History of Science in World Cultures is the perfect text for all students and others interested in the development of science throughout history. During the 19th century, much of the modern scientific enterprise took shape: scientific disciplines were formed, institutions and communities were founded and unprecedented

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applications to and interactions with other aspects of society and culture occurred. taught us about this exciting time and identify issues that remain unexamined or require reconsideration. They treat scientific disciplines - biology, physics, chemistry, the earth sciences, mathematics and the social sciences - in their specific intellectual and sociocultural contexts as well as the broader topics of science and medicine; science and religion; scientific institutions and

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communities; and science, technology and industry.

From Natural Philosophy to the Sciences should be valuable for historians of science, but also of great interest to scholars of all aspects of 19th-century life and culture.

two main (interacting) ways. They constitute that with which exploration into problems or questions is carried out. But they also constitute that which is exchanged between scholars or, in other terms, that which is shaped by one (or by some) for use by others.

Thought

In these various dimensions, texts obviously depend on the means and technologies available for producing, reproducing, using and organizing writings. In this regard, the contribution of a history of text is essential in helping us approach the various historical contexts from which our sources originate. However, there is more to it. While shaping texts as texts, the practitioners of the sciences may create new textual resources that intimately relate to the research carried on. One may think,

for instance, of the process of introduction of formulas in mathematical texts. This aspect opens up a whole range of extremely interesting questions to which we will return at a later point. But practitioners of the sciences also rely on texts produced by themselves or others, which they bring into play in various ways. More generally, they make use of textual resources of every kind that is available to them, reshaping them, restricting, or enlarging them. Among these, one can think of ways of naming,

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syntax of statements or grammatical analysis, literary techniques, modes of shaping texts or parts of text, genres of text and so on. In this sense, the practitioner depends on, and draws on, the “textual cultures” available to the social and professional groups to which they belong. This book is a general history of eighteenth-century developments in physical and life sciences.

Voices of Knowledge  
Science and Creationism  
The History and Poetics of  
Scientific Biography  
A History of Science Told



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Through the Lives of Its  
Greatest Inventors

History of Science, History  
of Text

A New History of the  
Scientific Revolution

The History of Science Fiction  
traces the origin and  
development of science fiction  
from Ancient Greece up to the  
present day. The author is both  
an academic literary critic and  
acclaimed creative writer of the  
genre. Written in lively,  
accessible prose it is specifically  
designed to bridge the worlds of  
academic criticism and SF  
fandom.

Steven Shapin argues that

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science, for all its immense authority and power, is and always has been a human endeavor, subject to human capacities and limits. Put simply, science has never been pure. To be human is to err, and we understand science better when we recognize it as the laborious achievement of fallible, imperfect, and historically situated human beings. Shapin's essays collected here include reflections on the historical relationships between science and common sense, between science and modernity, and between science and the moral

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order. They explore the relevance of physical and social settings in the making of scientific knowledge, the methods appropriate to understanding science historically, dietetics as a compelling site for historical inquiry, the identity of those who have made scientific knowledge, and the means by which science has acquired credibility and authority. This wide-ranging and intensely interdisciplinary collection by one of the most distinguished historians and sociologists of science represents some of the leading edges of change in the

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scholarly understanding of science over the past several decades.

Science in the Public Sphere presents a broad yet detailed picture of the history of science popularization from the Renaissance to the twenty-first century. Global in focus, it provides an original theoretical framework for analysing the political load of science as an instrument of cultural hegemony and giving a voice to expert and lay protagonists throughout history. Organised into a series of thematic chapters spanning diverse periods and places, this book

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covers subjects such as the representations of science in print, the media, classrooms and museums, orthodox and heterodox practices, the intersection of the history of science with the history of technology, and the ways in which public opinion and scientific expertise have influenced and shaped one another across the centuries. It concludes by introducing the "participatory turn" of the twenty-first century, a new paradigm of science popularization and a new way of understanding the construction of knowledge. Highly illustrated

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throughout and covering the recent historiographical scholarship on the subject, this book is valuable reading for students, historians, science communicators, and all those interested in the history of science and its relationship with the public sphere.

We all know the history of science that we learned from grade school textbooks: How Galileo used his telescope to show that the earth was not the center of the universe; how Newton divined gravity from the falling apple; how Einstein unlocked the mysteries of time and space with a simple

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equation. This history is made up of long periods of ignorance and confusion, punctuated once an age by a brilliant thinker who puts it all together. These few tower over the ordinary mass of people, and in the traditional account, it is to them that we owe science in its entirety. This belief is wrong. A People's History of Science shows how ordinary people participate in creating science and have done so throughout history. It documents how the development of science has affected ordinary people, and how ordinary people perceived that development. It would be

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wrong to claim that the formulation of quantum theory or the structure of DNA can be credited directly to artisans or peasants, but if modern science is likened to a skyscraper, then those twentieth-century triumphs are the sophisticated filigrees at its pinnacle that are supported by the massive foundation created by the rest of us.

From Natural Philosophy to the  
Sciences

Cosmology, Geology, and  
Biology in Christian Perspective  
Science: a History, 1543-2001

A history of science, technology,  
and philosophy in the 18th



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centuries  
Positioning the History of  
Science

A history of lay knowledge and  
expertise

*"Seventy-two distinguished  
historians of science took  
part in this stimulating and  
serious exchange of ideas  
covering many aspects of  
ancient, medieval and  
modern scientific thought ...  
the published proceedings  
include sixteen well-  
documented papers and  
nineteen provocative  
commentaries"--The New  
Scholasticism.*

*What is life? Where do we*

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*come from and how did we evolve? What is the universe and how was it formed? What is the nature of the material world? How does it work? How and why do we think? What does it mean to be human? How do we know? There are many different versions of our creation story. This book tells the version according to modern science. It is a unique account, starting at the Big Bang and travelling right up to the emergence of humans as conscious intelligent beings, 13.8 billion years later. Chapter*

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*by chapter, it sets out the current state of scientific knowledge: the origins of space and time; energy, mass, and light; galaxies, stars, and our sun; the habitable earth, and complex life itself. Drawing together the physical and biological sciences, Baggott recounts what we currently know of our history, highlighting the questions science has yet to answer. This title begins with Galileo and takes the reader through to the scientific developments of string theory. It is an accessible*

*narrative history, focusing on the way in which science has progressed by building on what went before, and also on the very close relationship between the progress of science and improved technology.*

*This edition of Science and Creationism summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a*

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*broader audience the case  
against presenting religious  
concepts in science classes.  
The document covers the  
origin of the universe, Earth,  
and life; evidence  
supporting biological  
evolution; and human  
evolution. (Contains 31  
references.) (CCM)  
History of Science and  
Philosophy of Science: A  
Historical Perspective of the  
Evolution of Ideas in Science  
Miners, Midwives, and Low  
Mechanics  
A View from the National  
Academy of Sciences  
Origins*

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*Historical Studies of Science  
as If It Was Produced by  
People with Bodies, Situated  
in Time, Space, Culture, and  
Society, and Struggling for  
Credibility and Authority  
A History of Chinese Science  
and Technology*

*A wonderfully readable account of  
scientific development over the past  
two hundred years, focusing on the  
lives and achievements of individual  
scientists, by the bestselling author of  
In Search of Schrödinger's Cat In this  
ambitious new book, John Gribbin tells  
the stories of the people who have  
made science, and of the times in  
which they lived and worked. He  
begins with Copernicus, during the  
Renaissance, when science replaced*

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*mysticism as a means of explaining the workings of the world, and he continues through the centuries, creating an unbroken genealogy of not only the greatest but also the more obscure names of Western science, a dot-to-dot line linking amateur to genius, and accidental discovery to brilliant deduction. By focusing on the scientists themselves, Gribbin has written an anecdotal narrative enlivened with stories of personal drama, success and failure. A bestselling science writer with an international reputation, Gribbin is among the few authors who could even attempt a work of this magnitude. Praised as "a sequence of witty, information-packed tales" and "a terrific read" by The Times upon its recent British publication, The Scientists breathes new life into such*

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*venerable icons as Galileo, Isaac Newton, Albert Einstein and Linus Pauling, as well as lesser lights whose stories have been undeservedly neglected. Filled with pioneers, visionaries, eccentrics and madmen, this is the history of science as it has never been told before.*

*Science: A Four Thousand Year History rewrites science's past. Instead of focussing on difficult experiments and abstract theories, Patricia Fara shows how science has always belonged to the practical world of war, politics, and business. Rather than glorifying scientists as idealized heroes, she tells true stories about real people - men (and some women) who needed to earn their living, who made mistakes, and who trampled down their rivals in their quest for success. Fara sweeps through the centuries,*



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*from ancient Babylon right up to the latest hi-tech experiments in genetics and particle physics, illuminating the financial interests, imperial ambitions, and publishing enterprises that have made science the powerful global phenomenon that it is today. She also ranges internationally, illustrating the importance of scientific projects based around the world, from China to the Islamic empire, as well as the more familiar tale of science in Europe, from Copernicus to Charles Darwin and beyond. Above all, this four thousand year history challenges scientific supremacy, arguing controversially that science is successful not because it is always right - but because people have said that it is right.*

*This book, published in 2000, examines the intersection between science and books from early*

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medieval times to the nineteenth century.

*History of Science and Philosophy of Science, a primarily interdisciplinary study, deals with the historical and philosophical perspectives of science and explores the mutuality of the relations between the two disciplines. To present the study in a reader-friendly format, it has been divided into two parts, with the first volume (Part 6) dedicated to the 'history' of science and the second volume (Part 7) to the 'philosophy' of science. The first volume, History of Science and Philosophy of Science: A Historical Perspective of the Evolution of Ideas in Science, seeks to present a history of science where science is believed to proceed along with the operation of a number of mechanisms that are instrumental to its growth, thus making*

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*science a part of a creative culture. This part works out the relation not between history and the history of science, but between science and the history of science. Though the volume focuses mainly on physics and mathematics, it also includes essays on life sciences and consciousness studies. The order of essays is guided not by chronology but by a philosophical interpretation of the development of major reforms and revisions in the field of science both in India and abroad. Some authors have paid full attention to Indian science and its logic, while some others have preferred to deal with Western science. Presented in a fairly non-technical language and readily accessible even to non-specialists, these volumes will be of interest to researchers and well-informed general*

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readers.

Thought  
Science

*Writing the History of Nineteenth-  
Century Science*

*The Cambridge History of Science:  
Volume 3, Early Modern Science*  
*Never Pure*

*The Social Origins of Modern Science*

Here, for the first time, is a single volume in English that contains all the important historical essays Edgar Zilsel (1891-1944) published during WWII on the emergence of modern science. It also contains one previously unpublished essay and an extended version of an essay published earlier. This volume is unique in its well-articulated social perspective on the origins of modern science and is of major interest to students in early modern social history/history of science, professional philosophers, historians, and sociologists

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of science.

The epic story of the scientists through the ages who have sought answers to life's biggest mystery: How did it begin? In this essential and illuminating history of Western science, Bill Mesler and H. James Cleaves II seek to answer the most crucial question in science: How did life begin? They trace the trials and triumphs of the iconoclastic scientists who have sought to solve the mystery, from Darwin's theory of evolution to Crick and Watson's unveiling of DNA. This fascinating exploration not only examines the origin-of-life question, but also interrogates the very nature of scientific discovery and objectivity.

Mankind has forever strived to learn. The tribe with the better weapons can hunt more efficiently, defend itself better and take what it lacked from their neighbours. With the advent of farming and the ability

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to domesticate wild animals, the first civilisations began to form. Better housing, advances in medicine and the ability to pass knowledge down through the generations increased mankind's knowledge of himself and his environment. The History of Science follows mankind's journey from primitive stone tools and weapons, through the bronze and iron ages, through the Renaissance and on to a quest for the stars. With informative text, illustrations, diagrams and maps and a continuous timeline The History of Science will take you on a journey the like of which has never been seen before.

"Captures the excitement of the scientific revolution and makes a point of celebrating the advances it ushered in."

—Financial Times A companion to such acclaimed works as *The Age of Wonder*, *A Clockwork Universe*, and *Darwin's*

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