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Making "Nature" Melinda Baldwin.2015-08-18 Making Nature is the first book to chronicle the foundation and development of Nature, one of the world's most influential scientific institutions. Now nearing its hundred and fiftieth year of publication, Nature is the international benchmark for scientific publication. Its contributors include Charles Darwin, Ernest Rutherford, and Stephen Hawking, and it has published many of the most important discoveries in the history of science, including articles on the structure of DNA, the discovery of the neutron, the first cloning of a mammal, and the human genome. But how did Nature become such an essential institution? In Making Nature, Melinda Baldwin charts the rich history of this extraordinary publication from its foundation in 1869 to current debates about online publishing and open access. This pioneering study not only tells Nature's story but also sheds light on much larger questions about the history of science publishing, changes in scientific communication, and shifting notions of scientific community. Nature, as Baldwin demonstrates, helped define what science is and what it means to be a scientist.

Science Rules Peter Achinstein.2004-09-24 Included is a famous nineteenth-century debate about scientific reasoning between the hypothetico-deductivist William Whewell and the inductivist John Stuart Mill; and an account of the realism-antirealism dispute about unobservables in science, with a consideration of Perrin's argument for the existence of molecules in the early twentieth century.

The Scientific Revolution H. Floris Cohen.1994-10-03 In this first book-length historiographical study of the Scientific Revolution, H. Floris Cohen examines the body of work on the intellectual, social, and cultural origins of early modern science. Cohen critically surveys a wide range of scholarship since the nineteenth century, offering new perspectives on how the Scientific Revolution changed forever the way we understand the natural world and our place in it. Cohen's discussions range from scholarly interpretations of Galileo, Kepler, and Newton, to the question of why the Scientific Revolution took place in seventeenth-century Western Europe, rather than in ancient Greece, China, or the Islamic world. Cohen contends that the emergence of early modern science was essential to the rise of the modern world, in the way it fostered advances in technology. A valuable entrée to the literature on the Scientific Revolution, this book assesses both a controversial body of scholarship, and contributes to understanding how modern science came into the world.

Longitude Dava Sobel.2010-07-05 The dramatic human story of an epic scientific quest and of one man's forty-year obsession to find a solution to the thorniest scientific dilemma of the day--the longitude problem. Anyone alive in the eighteenth century would have known that the longitude problem was the thorniest scientific dilemma of the day-and had been for centuries. Lacking the ability to measure their longitude, sailors throughout the great ages of exploration had been literally lost at sea as soon as they lost sight of land. Thousands of lives and the increasing fortunes of nations hung on a resolution. One man, John Harrison, in complete opposition to the scientific community, dared to imagine a mechanical solution-a clock that would keep precise time at sea, something no clock had ever been able to do on land. Longitude is the dramatic human story of an epic scientific quest and of Harrison's forty-year obsession with building his perfect timekeeper, known today as the chronometer. Full of heroism and chicanery, it is also a fascinating brief history of astronomy, navigation, and clockmaking, and opens a new window on our world.

Science Patricia Fara.2010-02-11 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, 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.

The Emergence of Life on Earth Iris Fry.2000 How did life emerge on Earth? Is there life on other worlds? These questions, until recently confined to the pages of speculative essays and tabloid headlines, are now the subject of legitimate scientific research. This book presents a unique perspective-- a combined historical, scientific, and philosophical analysis, which does justice to the complex nature of the subject. The book's first part offers an overview of the main ideas on the origin of life as they developed from antiquity until the twentieth century. The second, more detailed part of the book examines contemporary theories and major debates within the origin-of-life scientific community. Topics include: Aristotle and the Greek atomists' conceptions of the organism Alexander Oparin and J.B.S. Haldane's 1920s breakthrough papers Possible life on Mars?

How it All Works Adam Dant, Brian Clegg.2021-10-05 In this beautiful and unique combination of art and science, this stunningly detailed book examines how the rules of science govern the the world around us, from the rooms in our houses to the planet, the solar system and the universe itself! The Universe is inconceivably complex. Its component parts though follow a set of unbreakable laws that have somehow been coded into their very fabric since the beginning of time. These laws play out in different ways at different scales, giving rise to the familiar phenomena of everyday life - as well as the unfamiliar abstract goings-on outside our experience and awareness. Understanding these laws may seem a daunting task, until now. *How it All Works* illustrates simply how the most interesting and complex named scientific laws and phenomena affect everyone's daily lives. Using hyper-detailed scene illustrations from the incredible award-winning artist Adam Dant, we start small, with the illustrated science inside your kitchen, before expanding outwards to encompass your garden, street, city, continent, planet, solar system, galaxy and eventually the whole universe. With tiny details pulled out from visually stunning and intricate scene, learn how: Kirchhoff's Law affects how you charge your phone, Newton's Law of Cooling helps you make your coffee just the right temperature to drink, How the rules of antimatter are used in hospitals for medical imaging, How Cassie's law keeps ducks dry, How glaciation shapes the landscapes around us, How thermohaline circulation dictates our weather, and How quantum tunnelling influences the nuclear fusion in our sun, and Wien's Law determines its colour. This book will astound and inform in equal measure, with each principle drawn into the scene and explained with clarity by leading science writer Brian Clegg. With a reference section at the back as well as profiles of the key figures who have helped shape our understanding of these key principles, from Lynn Margulis and Richard Feynman to Marie Curie, Michael Faraday, Isaac Newton and Albert Einstein, this beautiful and unique visual examination of the rules of science is an must-have book for anyone who wants to understand the physics, chemistry and biology of the world around us!

Landmarks in the History of Science Basil Evangelidis.2020-10-06 'Landmarks in the History of Science' is a concise history of science from a global and macro-historical standpoint. It is an account of grand theoretical revolutions, such as heliocentrism, atomism, and relativity. But, more importantly, it is also a story of the methodological transitions to the experimental, mathematical, constructivist and instrumental practices of science. It begins with Ancient Greek science, as one of the first self-conscious, comprehensive and well-documented scientific endeavors at the global level. The numerous contributions of the Greeks, in philosophy, mathematics, geometry, geography and astronomy, momentous as they were, were fruits of leisure rather than industry. It then examines the history of science in China and China's exchanges with India and Islam. A systematic

and collaborative scientific effort is the hallmark of Chinese science. The contributions of the Chinese in medicine, printing, manufacturing and navigation invariably predate and outshine those of western contemporaries. Attention then shifts to the age of oceanic discoveries, which created the inexorable presuppositions for the genesis of global trade and a world system. From the inner organs of the organisms to the outer regions of Earth, Renaissance science was ubiquitous. The importance of inter-cultural scientific syncretism is highlighted, with the Iberian Peninsula as meeting point and crossroad of mutual affection between Arab, Jewish and European culture. Discoveries and inventions in metallurgy, electromagnetism and the science of petroleum set the scientific basis for the industrial revolution. The logic of the industrial revolution dictates developments in information technologies that culminate with the invention of modern computers. A dedicated chapter on the history of modern scientific conceptions of the universe showcases the subtle links in the fabric of seminal ideas in physics and astronomy. The book concludes with some reflections on the relationship between philosophy and the history of science. Following Kuhn and Latour, this discussion centers on the characteristics of continuities, ruptures and paradigmatic transitions in science.

The Scientific Revolution Steven Shapin.2018-11-05 This scholarly and accessible study presents “a provocative new reading” of the late sixteenth- and seventeenth-century advances in scientific inquiry (Kirkus Reviews). In *The Scientific Revolution*, historian Steven Shapin challenges the very idea that any such a “revolution” ever took place. Rejecting the narrative that a new and unifying paradigm suddenly took hold, he demonstrates how the conduct of science emerged from a wide array of early modern philosophical agendas, political commitments, and religious beliefs. In this analysis, early modern science is shown not as a set of disembodied ideas, but as historically situated ways of knowing and doing. Shapin shows that every principle identified as the modernizing essence of science—whether it’s experimentalism, mathematical methodology, or a mechanical conception of nature—was in fact contested by sixteenth- and seventeenth-century practitioners with equal claims to modernity. Shapin argues that this contested legacy is nevertheless rightly understood as the origin of modern science, its problems as well as its acknowledged achievements. This updated edition includes a new bibliographic essay featuring the latest scholarship. “An excellent book.” —Anthony Gottlieb, *New York Times Book Review*

The Good Life in the Scientific Revolution Matthew L. Jones.2008-09-15 Amid the unrest, dislocation, and uncertainty of seventeenth-century Europe, readers seeking consolation and assurance turned to philosophical and scientific books that offered ways of conquering fears and training the mind—guidance for living a good life. *The Good Life in the Scientific Revolution* presents a triptych showing how three key early modern scientists, René Descartes, Blaise Pascal, and Gottfried Leibniz, envisioned their new work as useful for cultivating virtue and for pursuing a good life. Their scientific and philosophical innovations stemmed in part from their understanding of mathematics and science as cognitive and spiritual exercises that could create a truer mental and spiritual nobility. In portraying the rich contexts surrounding Descartes’ geometry, Pascal’s arithmetical triangle, and Leibniz’s calculus, Matthew L. Jones argues that this drive for moral therapeutics guided important developments of early modern philosophy and the Scientific Revolution.

Great Scientific Experiments Rom Harre.2013-01-17 Vivid, readable, accurate tales of landmark inquiries include Aristotle's work on embryology of the chick, Galileo's discovery of the law of descent, Newton's experiment on nature of colors, more.

Scientific History Elena Aronova.2021-04-02 Increasingly, scholars in the humanities are calling for a reengagement with the natural sciences. Taking their cues from recent breakthroughs in genetics and the neurosciences, advocates of “big history” are reassessing long-held assumptions about the very definition of history, its methods, and its evidentiary base. In *Scientific History*, Elena Aronova maps out historians’ continuous engagement with the methods, tools, values, and scale of the natural sciences by examining several waves of their experimentation that surged

highest at perceived times of trouble, from the crisis-ridden decades of the early twentieth century to the ruptures of the Cold War. The book explores the intertwined trajectories of six intellectuals and the larger programs they set in motion: Henri Berr (1863–1954), Nikolai Bukharin (1888–1938), Lucien Febvre (1878–1956), Nikolai Vavilov (1887–1943), Julian Huxley (1887–1975), and John Desmond Bernal (1901–1971). Though they held different political views, spoke different languages, and pursued different goals, these thinkers are representative of a larger motley crew who joined the techniques, approaches, and values of science with the writing of history, and who created powerful institutions and networks to support their projects. In tracing these submerged stories, Aronova reveals encounters that profoundly shaped our knowledge of the past, reminding us that it is often the forgotten parts of history that are the most revealing.

The Science of Leonardo Fritjof Capra. 2007-10-30 Leonardo da Vinci's scientific explorations were virtually unknown during his lifetime, despite their extraordinarily wide range. He studied the flight patterns of birds to create some of the first human flying machines; designed military weapons and defenses; studied optics, hydraulics, and the workings of the human circulatory system; and created designs for rebuilding Milan, employing principles still used by city planners today. Perhaps most importantly, Leonardo pioneered an empirical, systematic approach to the observation of nature—what is known today as the scientific method. Drawing on over 6,000 pages of Leonardo's surviving notebooks, acclaimed scientist and bestselling author Fritjof Capra reveals Leonardo's artistic approach to scientific knowledge and his organic and ecological worldview. In this fascinating portrait of a thinker centuries ahead of his time, Leonardo singularly emerges as the unacknowledged “father of modern science.”

The Philosophical, Scientific, and Historical Evidence for God David Scott Nichols M.D.. 2021-12-28 The Evidence for God For approximately one hundred years, most secular scientists and the majority of the intelligentsia in the world have “preached” that God does not exist. Darwin's book, *The Origin of the Species*, published in 1859, was the primary impetus for this change in our world's viewpoint away from God. Today, many leaders in academia look at Christians (and others who believe in God) as bereft of intelligence. At the onset of the 20th century, there was very little scientific evidence to suggest that God was the Creator of the Universe. However, since 1917, amazing evidence has been discovered in the fields of cosmology and biology that a significant number of secular scientists admit points to an incredible Creative Force; most call this Force, God. *The Philosophical, Scientific, and Historical Evidence for God* presents this evidence in a detailed, yet understandable, manner. This book, Dr. Nichols' eleventh on theology, provides well-researched information showing the ever-increasing evidence for an omnipotent Creator. He considers it to be the magnum opus of his writing career. The significance of the Big Bang theory and the many weaknesses now recognized in the theory of evolution will be thoroughly reviewed. Philosophical and historical evidence for God will also be presented. Dr. Nichols is convinced that an open-minded reader will come away with the realization that God does, indeed, exist, and that He is the God of the Holy Bible.

Great Men of Science Philipp Lenard. 2018-07-30 Excerpt from *Great Men of Science: A History of Scientific Progress* I count it an honour to be allowed to write a few words of introduction for the English edition of Professor Lenard's historical studies of the great men of science. It is now over twenty years since I worked as a research student in his laboratory, and time has dulled many memories, but the recollection of his inspiring and wholehearted devotion to the service of science, of his generous enthusiasm for the work of men of genius, living and dead, and of his wonderful experimental skill and resource, is still bright. Ramsauer, Hausser and Kossel, whose names have since become famous, were among his research students at that time, and the physics colloquium, with Professor Lenard's illuminating and significant interjections, comments and questions, made the pursuit of scientific truth seem an exciting and supremely desirable quest. It was on such occasions that Professor Lenard's interest in the history of science came particularly to our notice. Who had first shown the way here, what had he actually done, how was he led to do it? Such questions, to which our professor too often had to supply the answer himself, brought before us the greatness of past workers and the significance of their achieve

ments. Galileo, Newton, Faraday, Hertz (who was Lenard's teacher): such men became living figures for us, and their tasks and successes appeared as part of an organic structure, and not as an empty record of past times. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

The Launching of Modern American Science, 1846-1876 Robert V. Bruce. 2022-05-01 Winner of the 1988 Pulitzer Prize in History “For readers born since the 1930’s, who have grown up assuming the United States leads the world in science, *The Launching of Modern American Science 1846-1876* will come as something of a shock. It shows that little over a century ago the American scientific community was small, mediocre and unpromising... Mr. Bruce has performed an invaluable service in retrieving from numerous archives the letters and diaries of mid-19th-century American scientists, in which both the well-known ones and the obscure describe their assimilation of the scientific ethos — their discovery of the fascination of lab work, their contempt for charlatanism, their dreams for the future of American science... he has done extensive archival research as well as detailed analyses of scientists and technologists listed in the *Dictionary of American Biography*... he has provided a wealth of information on the people and institutions of mid-19th-century American science.” — *The New York Times* “[A] superb study of the dawn of science and technology in the United States... [Bruce’s] premier focus in this and earlier books is mid- to late- 19th-century America, and one feels in the presence of a master who creates a reality of time and place that is breathtaking... Bruce meticulously documents the text with names, numbers, dates and places, with vignettes and personality sketches, noting that it was the American style of science to develop technique, to observe, describe and catalogue, rather than theorize... A scholarly gem.” — *Kirkus* “If I had to recommend only one book on the critical period of development of nineteenth-century science in America, it would be this one. Bruce’s book, a social history of science and the scientific community, is about launching the American ship of science on its course to professionalization, modernity, and international competitiveness. His goal is to tell how American scientists and engineers established new national patterns and organizations in science and technology, still prevalent today... For a most critical period in the history of science in America, Bruce has produced a thorough and well written historical demography of scientists, their institutions (societies, journals, jobs, colleges, schools, laboratories, museums, lectures, agencies, expeditions, surveys), and public relations.” — *Journal of the History of Medicine and Allied Sciences* “Drawing upon an enormous number of primary sources and scores of secondary works, Bruce has produced a truly important book. His incisive analyses, his exemplary style of writing, and his graceful touches of humor make it a fascinating one... [a] splendid book [which] fills a gap in our knowledge of the history of science in the United States and deserves the attention of everyone who desires to know when and how modern science fledged in America.” — *Science* “[A] book not just to be looked through, but looked at... Bruce displays a remarkable grasp of its sources — primary and secondary, in manuscript and print, statistical studies of his own and others — and it will be the well-informed historian indeed who fails to make discoveries here... Bruce writes a proprietary prose that... is both eloquent and playful. A magisterial study of the development of science under the peculiar constraints of democratic culture, *The Launching* belongs with the half dozen or so classics that have appeared since the history of American science came out of drydock four decades ago.” — *Isis* “[A]n exceptionally fine and eminently readable piece of historical scholarship... The book is a major contribution the scientific community in nineteenth-century America.” — *Bulletin of the History of Medicine* “This will be the definitive account for a long time indeed.” — *American Scientist* “[I]t is difficult to say too much good about *The Launching of Modern American Science*, which [is] a major interpretation of the period... a book so altogether excellent... [it] gives a view of that period that is both convincing and illuminating. As a very

welcome extra, it is so well written that it is a joy to read.” — History of Education Quarterly “[A]n ample, thoughtful, scholarly, and well-written survey.” — The New England Quarterly “[A] rich and well-documented account. This is a readable book that should find a broad audience.” — The British Journal for the History of Science

Scientifica Millennium House.2009 Although many people think of science as only relevant to whitecoated intellectuals tucked away in laboratories, in fact, scientific knowledge explains the everyday world. The amazing discoveries of years gone by have become part of the accepted environment of today. For example, the invention of the voltaic battery by Alessandro Volta was a huge breakthrough in 1800, but nowadays we flick many switches a day, and take for granted the electricity that powers our lights, ovens, televisions, etc. Scientifica tells of the discoveries and inventions that led to modern technology, explains the fundamental concepts of many scientific principles, and also examines the physical world, from the stars above to the ground below. With our increasing understanding of our environment we can learn to preserve our natural resources for the future. The information presented throughout the pages of Scientifica will enhance our appreciation of the marvels of nature and increase our understanding of the technology that surrounds us.

A Little History of Science William Bynum.2012-10-15 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 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 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.

Between the Earth and the Heavens Helge Kragh.2021 Consisting of separate cases organized by chapter and divided into independent sections, this is no ordinary history of science book. *Between the Earth and the Heavens* is an episodic history of modern physical sciences covering the chronological development of physics, chemistry and astronomy since about 1860. Integrating historical authenticity and modern scientific knowledge, the cases within deal with the often surprising connections between science done in the laboratory (physics, chemistry) and science based on observation (astronomy, cosmology). *Between the Earth and the Heavens* presupposes an interest in and a certain knowledge of the physical sciences, but it is written for non-specialists and includes only a limited number of equations which are all clearly explained in simple terms. For readers who wish to delve further, the book is fully documented and ends with a bibliography of cited quotations and other relevant sources--

The Art of Science Richard Hamblyn.2011-12-01 What these extracts are, first and foremost, are stories of discovery. *The Art of Science* is not necessarily a book about great scientific theories, complicated equations, or grand old men (or women) in their laboratories; instead, it's about the places we draw our inspiration from; it's about daily routines and sudden flashes of insight; about dedication, and - sometimes - desperation; and the small moments, questions, quests, clashes, doubts and delights that make us human. From Galileo to Lewis Carroll, from Humphry Davy to Charles Darwin, from Marie Curie to Stephen Jay Gould, from rust to snowflakes, from the first use of the word scientist to the first computer, from why the

sea is salty to Newtonian physics for women, *The Art of Science* is a book about people, rather than scientists per se, and as such, it's a book about politics, passion and poetry. Above all, it's a book about the good that science can - and does - do.

Other Worlds Than Ours Richard Anthony Proctor.2017-07-26 Other worlds than ours - The plurality of worlds studied under the light of recent scientific researches is an unchanged, high-quality reprint of the original edition of 1896. Hansebooks is editor of the literature on different topic areas such as research and science, travel and expeditions, cooking and nutrition, medicine, and other genres. As a publisher we focus on the preservation of historical literature. Many works of historical writers and scientists are available today as antiques only. Hansebooks newly publishes these books and contributes to the preservation of literature which has become rare and historical knowledge for the future.

Scientific Knowledge and the Deep Past Adrian Currie.2019-08-15 Historical sciences like paleontology and archaeology have uncovered unimagined, remarkable and mysterious worlds in the deep past. How should we understand the success of these sciences? What is the relationship between knowledge and history? In *Scientific Knowledge and the Deep Past: History Matters*, Adrian Currie examines recent paleontological work on the great changes that occurred during the Cretaceous period - the emergence of flowering plants, the splitting of the mega-continent Gondwana, and the eventual fall of the dinosaurs - to analyse the knowledge of historical scientists, and to reflect upon the nature of history. He argues that distinctively historical processes are 'peculiar': they have the capacity to generate their own highly specific dynamics and rules. This peculiarity, Currie argues, also explains the historian's interest in narratives and stories: the contingency, complexity and peculiarity of the past demands a narrative treatment. Overall, Currie argues that history matters for knowledge.

How the Great Scientists Reasoned Gary G. Tibbetts.2013 The scientific method is one of the most basic and essential concepts across the sciences, ensuring that investigations are carried out with precision and thoroughness. This book teaches the basic modes of scientific thought, not by philosophical generalizations, but by illustrating in detail how great scientists from across the sciences solved problems using scientific reason.

On Understanding Science James Bryant Conant.1947 The language, customs, and manners of scientists are frequently unintelligible to the rest of the population, and there is considerable danger that the ideas and forces that are moving mountains will be increasingly inaccessible to those outside the laboratories. The peril of such a situation to a democracy, where understanding must be assumed to be fairly general, is probably as great in the realm of ideas as the physical danger of the instruments of destruction. Dr. Conant sets out to show how the gulf can be bridged. Instead of a series of assertions about science being ordered knowledge, or the classification of facts, he presents a historical view of a number of the great scientists, of what their generation knew of their subjects, of the problem they set out to examine, and of how they solved it. The reader is enabled to follow the scientific method at work, with all its limitations and wonders.

Science and Technology in World History, Volume 1 David Deming.2014-01-10 Science is a living, organic activity, the meaning and understanding of which have evolved incrementally over human history. This book, the first in a roughly chronological series, explores the development of the methodology and major ideas of science, in historical context, from ancient times to the decline of classical civilizations around 300 A.D. It includes details specific to the histories of specialized sciences including astronomy, medicine and physics—along with Roman engineering and Greek philosophy. It closely describes the contributions of such individuals as Pythagoras, Hippocrates, Socrates, Plato, Aristotle, Alexander the Great, Euclid, Archimedes, Ptolemy, Seneca, Pliny the Elder, and Galen.

The Invention of Science David Wootton.2015-12-08 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 Ghosts*—a groundbreaking examination of the greatest event in history, the Scientific Revolution, and how it came to change the way we understand

ourselves and our world. We live in a world transformed by scientific discovery. Yet today, science and its practitioners have come under political attack. In this fascinating history spanning continents and centuries, historian David Wootton offers a lively defense of science, revealing why the Scientific Revolution was truly the greatest event in our history. *The Invention of Science* goes back five hundred years in time to chronicle this crucial transformation, exploring the factors that led to its birth and the people who made it happen. Wootton argues that the Scientific Revolution was actually five separate yet concurrent events that developed independently, but came to intersect and create a new worldview. Here are the brilliant iconoclasts—Galileo, Copernicus, Brahe, Newton, and many more curious minds from across Europe—whose studies of the natural world challenged centuries of religious orthodoxy and ingrained superstition. From gunpowder technology, the discovery of the new world, movable type printing, perspective painting, and the telescope to the practice of conducting experiments, the laws of nature, and the concept of the fact, Wootton shows how these discoveries codified into a social construct and a system of knowledge. Ultimately, he makes clear the link between scientific discovery and the rise of industrialization—and the birth of the modern world we know.

Science and Technology in World History James E. McClellan III, Harold Dorn. 2008-02-01 The new edition reorganizes its treatment of Greek science and significantly expands its coverage of industrial civilization and contemporary science and technology with new and revised chapters devoted to applied science, the sociology and economics of science, globalization, and the technological systems that underpin everyday life.

Visions Michio Kaku. 2011-05-25 The national bestselling author of *The God Equation* and renowned theoretical physicist examines the scientific revolutions that have reshaped the twentieth century—the quantum mechanics, biogenetics, and artificial intelligence—and shows how they will change and alter science and the way we live. An erudite, compelling insider's look into the most mind-bending potential of science research.

—Chicago Tribune The next century will witness more far-reaching scientific revolutions, as we make the transition from unraveling the secrets of nature to becoming masters of nature. We will no longer be passive bystanders to the dance of the universe, but will become creative choreographers of matter, life, and intelligence. The first section of *Visions* presents a shocking look at a cyber-world infiltrated by millions of tiny intelligence systems. Part two illustrates how the decoding of DNA's genetic structure will allow humans the godlike ability to manipulate life almost at will. Finally, *Visions* focuses on the future of quantum physics, in which physicists will perfect new ways to manipulate matter and harness the cosmic energy of the universe. What makes Michio Kaku's vision of the science of the future so compelling—and so different from the mere forecasts of most thinkers—is that it is based on the groundbreaking research taking place in labs today, as well as the consensus of over 150 of Kaku's scientific colleagues. Science, for all its breathtaking change, evolves slowly; we can accurately predict, asserts Kaku, what the direction of science will be, based on the paths that are being forged today. A thrilling, unique narrative that brings together the thinking of many of the world's most accomplished scientists to explore the world of the future, *Visions* is science writing at its best.

The Knowledge Machine: How Irrationality Created Modern Science Michael Strevens. 2020-10-13 “The Knowledge Machine is the most stunningly illuminating book of the last several decades regarding the all-important scientific enterprise.” —Rebecca Newberger Goldstein, author of *Plato at the Googleplex* A paradigm-shifting work, *The Knowledge Machine* revolutionizes our understanding of the origins and structure of science. • Why is science so powerful? • Why did it take so long—two thousand years after the invention of philosophy and mathematics—for the human race to start using science to learn the secrets of the universe? In a groundbreaking work that blends science, philosophy, and history, leading philosopher of science Michael Strevens answers these challenging questions, showing how science came about only once thinkers stumbled upon the astonishing idea that scientific breakthroughs could be accomplished by breaking the rules of logical argument. Like such classic works as Karl Popper's *The Logic of Scientific Discovery* and Thomas Kuhn's *The Structure of Scientific Revolutions*, *The Knowledge Machine* grapples with the meaning and

origins of science, using a plethora of vivid historical examples to demonstrate that scientists willfully ignore religion, theoretical beauty, and even philosophy to embrace a constricted code of argument whose very narrowness channels unprecedented energy into empirical observation and experimentation. Strevens calls this scientific code the iron rule of explanation, and reveals the way in which the rule, precisely because it is unreasonably close-minded, overcomes individual prejudices to lead humanity inexorably toward the secrets of nature. “With a mixture of philosophical and historical argument, and written in an engrossing style” (Alan Ryan), *The Knowledge Machine* provides captivating portraits of some of the greatest luminaries in science’s history, including Isaac Newton, the chief architect of modern science and its foundational theories of motion and gravitation; William Whewell, perhaps the greatest philosopher-scientist of the early nineteenth century; and Murray Gell-Mann, discoverer of the quark. Today, Strevens argues, in the face of threats from a changing climate and global pandemics, the idiosyncratic but highly effective scientific knowledge machine must be protected from politicians, commercial interests, and even scientists themselves who seek to open it up, to make it less narrow and more rational—and thus to undermine its devotedly empirical search for truth. Rich with illuminating and often delightfully quirky illustrations, *The Knowledge Machine*, written in a winningly accessible style that belies the import of its revisionist and groundbreaking concepts, radically reframes much of what we thought we knew about the origins of the modern world.

The Discovery of Global Warming Weart, Spencer R. Weart. 2003 In 2001 a panel representing virtually all the world's governments and climate scientists announced that they had reached a consensus: the world was warming at a rate without precedent during at least the last ten millennia, and that warming was caused by the buildup of greenhouse gases from human activity. The consensus itself was at least a century in the making. The story of how scientists reached their conclusion--by way of unexpected twists and turns and in the face of formidable intellectual, financial, and political obstacles--is told for the first time in *The Discovery of Global Warming*. Spencer R. Weart lucidly explains the emerging science, introduces us to the major players, and shows us how the Earth's irreducibly complicated climate system was mirrored by the global scientific community that studied it. Unlike familiar tales of Science Triumphant, this book portrays scientists working on bits and pieces of a topic so complex that they could never achieve full certainty--yet so important to human survival that provisional answers were essential. Weart unsparingly depicts the conflicts and mistakes, and how they sometimes led to fruitful results. His book reminds us that scientists do not work in isolation, but interact in crucial ways with the political system and with the general public. The book not only reveals the history of global warming, but also analyzes the nature of modern scientific work as it confronts the most difficult questions about the Earth's future. Table of Contents: Preface 1. How Could Climate Change? 2. Discovering a Possibility 3. A Delicate System 4. A Visible Threat 5. Public Warnings 6. The Erratic Beast 7. Breaking into Politics 8. The Discovery Confirmed Reflections Milestones Notes Further Reading Index Reviews of this book: A soberly written synthesis of science and politics. --Gilbert Taylor, *Booklist* Reviews of this book: Charting the evolution and confirmation of the theory [of global warming], Spencer R. Weart, director of the Center for the History of Physics of the American Institute of Physics, dissects the interwoven threads of research and reveals the political and societal subtexts that colored scientists' views and the public reception their work received. --Andrew C. Revkin, *New York Times Book Review* Reviews of this book: It took a century for scientists to agree that gases produced by human activity were causing the world to warm up. Now, in an engaging book that reads like a detective story, physicist Weart reports the history of global warming theory, including the internal conflicts plaguing the research community and the role government has had in promoting climate studies. --Publishers Weekly Reviews of this book: It is almost two centuries since the French mathematician Jean Baptiste Fourier discovered that the Earth was far warmer than it had any right to be, given its distance from the Sun...Spencer Weart's book about how Fourier's initially inconsequential discovery finally triggered urgent debate about the future habitability of the Earth is lucid, painstaking and commendably brief, packing everything into 200 pages. --Fred Pearce, *The Independent* Reviews of

this book: [The Discovery of Global Warming] is a well-written, well-researched and well-balanced account of the issues involved...This is not a sermon for the faithful, or verses from Revelation for the evangelicals, but a serious summary for those who like reasoned argument. Read it--and be converted. --John Emsley, Times Literary Supplement Reviews of this book: This is a terrific book...Perhaps the finest compliment I could give this book is to report that I intend to use it instead of my own book...for my climate class. The Discovery of Global Warming is more up-to-date, better balanced historically, beautifully written and, not least important, short and to the point. I think the [Intergovernmental Panel on Climate Change] needs to enlist a few good historians like Weart for its next assessment. --Stephen H. Schneider, Nature Reviews of this book: This short, well-written book by a science historian at the American Institute of Physics adds a serious voice to the overheated debate about global warming and would serve as a great starting point for anyone who wants to better understand the issue. --Maureen Christie, American Scientist Reviews of this book: I was very pleasantly surprised to find that Spencer Weart's account provides much valuable and interesting material about how the discipline developed--not just from the perspective of climate science but also within the context of the field's relation to other scientific disciplines, the media, political trends, and even 20th-century history (particularly the Cold War). In addition, Weart has done a valuable service by recording for posterity background information on some of the key discoveries and historical figures who contributed to our present understanding of the global warming problem. --Thomas J. Crowley, Science Reviews of this book: Weart has done us all a service by bringing the discovery of global warming into a short, compendious and persuasive book for a general readership. He is especially strong on the early days and the scientific background. --Crispin Tickell, Times Higher Education Supplement A Capricious Beast Ever since the days when he had trudged around fossil lake basins in Nevada for his doctoral thesis, Wally Broecker had been interested in sudden climate shifts. The reported sudden jumps of CO₂ in Greenland ice cores stimulated him to put this interest into conjunction with his oceanographic interests. The result was a surprising and important calculation. The key was what Broecker later described as a great conveyor belt'of seawater carrying heat northward. . . . The energy carried to the neighborhood of Iceland was staggering, Broecker realized, nearly a third as much as the Sun sheds upon the entire North Atlantic. If something were to shut down the conveyor, climate would change across much of the Northern Hemisphere' There was reason to believe a shutdown could happen swiftly. In many regions the consequences for climate would be spectacular. Broecker was foremost in taking this disagreeable news to the public. In 1987 he wrote that we had been treating the greenhouse effect as a 'cocktail hour curiosity,' but now 'we must view it as a threat to human beings and wildlife.' The climate system was a capricious beast, he said, and we were poking it with a sharp stick. I found the book enjoyable, thoughtful, and an excellent introduction to the history of what may be one of the most important subjects of the next one hundred years. --Clark Miller, University of Wisconsin The Discovery of Global Warming raises important scientific issues and topics and includes essential detail. Readers should be able to follow the discussion and emerge at the end with a good understanding of how scientists have developed a consensus on global warming, what it is, and what issues now face human society. --Thomas R. Dunlap, Texas A&M University

Knowledge and Power William Burns.2016-09-16 Knowledge and Power shows how science has developed in different historical settings by focusing on four episodes in the history of world science from the Middle Ages to the mid-twentieth century. The title of this book comes from a famous saying by the English Renaissance philosopher Francis Bacon: Knowledge is Power. Through a combination of narrative and primary sources, author William Burns explores the following topics in order to provide students with an understanding of how different cultures throughout time and across the globe approached science: Science in the Medieval Mediterranean, The Jesuits and World Science ca. 1540-1773, Science in Russia and Japan ca. 1684-1860s, and Africa in the Age of Imperialism and Nationalism ca. 1860-1960.

Scientific Controversies Peter K. Machamer,Peter Machamer,Marcello Pera,Aristeidēs Baltas.2000 The essays consider the nature of scientific

controversy, how such controversies are resolved, and whether controversy is in fact necessary to the advancement of scientific knowledge.--BOOK JACKET.

History of Scientific Thought Michel Serres.1995-10-16 A series of meditative or considered essays, examining nodal points in the long history of science from the first emergence of experts writing on clay in Babylonia.

Servants of Nature Lewis Pyenson,Susan Sheets-Pyenson.1999 Explores the interaction between scientific practice and public life

A Short History of Scientific Thought John Henry.2012 A highly readable historical survey of the major developments in scientific thought and the impact of science on Western culture, this book takes the reader from ancient times through to the twentieth century. Organized chronologically, the book explores the history of studies of the natural world, and man's role within that world, in a single volume--Provided by publisher.

Landmarks in the History of Science Basil Evangelidis.2017 Landmarks in the History of Science is a concise history of science from a global and macro-historical standpoint. It is an account of grand theoretical revolutions, such as heliocentrism, atomism, and relativity. But, more importantly, it is also a story of the methodological transitions to the experimental, mathematical, constructivist and instrumental practices of science. It begins with Ancient Greek science, as one of the first self-conscious, comprehensive and well-documented scientific endeavors at the global level. The numerous contributions of the Greeks, in philosophy, mathematics, geometry, geography and astronomy, momentous as they were, were fruits of leisure rather than industry. It then examines the history of science in China and China's exchanges with India and Islam. A systematic and collaborative scientific effort is the hallmark of Chinese science. The contributions of the Chinese in medicine, printing, manufacturing and navigation invariably predate and outshine those of western contemporaries. Attention then shifts to the age of oceanic discoveries, which created the inexorable presuppositions for the genesis of global trade and a world system. From the inner organs of the organisms to the outer regions of Earth, Renaissance science was ubiquitous. The importance of inter-cultural scientific syncretism is highlighted, with the Iberian Peninsula as meeting point and crossroad of mutual affection between Arab, Jewish and European culture. Discoveries and inventions in metallurgy, electromagnetism and the science of petroleum set the scientific basis for the industrial revolution. The logic of the industrial revolution dictates developments in information technologies that culminate with the invention of modern computers. A dedicated chapter on the history of modern scientific conceptions of the universe showcases the subtle links in the fabric of seminal ideas in physics and astronomy. The book concludes with some reflections on the relationship between philosophy and the history of science. Following Kuhn and Latour, this discussion centers on the characteristics of continuities, ruptures and paradigmatic transitions in science.

Making Prehistory Derek Turner.2007-07-05 Scientists often make surprising claims about things that no one can observe. In physics, chemistry, and molecular biology, scientists can at least experiment on those unobservable entities, but what about researchers in fields such as paleobiology and geology who study prehistory, where no such experimentation is possible? Do scientists discover facts about the distant past or do they, in some sense, make prehistory? In this book Derek Turner argues that this problem has surprising and important consequences for the scientific realism debate. His discussion covers some of the main positions in philosophy of science - realism, social constructivism, empiricism, and the natural ontological attitude - and shows how they relate to issues in paleobiology and geology. His original and thought-provoking book will be of wide interest to philosophers and scientists alike.

The Science Class You Wish You Had (Revised Edition) David Eliot Brody,Arnold R. Brody.2013-08-06 What does $E=mc^2$ really mean? What is DNA? What was the big bang? These scientific concepts have changed our perception of the world...but for many of us they remain mysteries, bits and pieces of information retained from classroom lectures but never truly understood. Now we can finally grasp the grandeur and complexity of

these ideas, and their significance in our lives. Revised and updated to include the latest discoveries that are changing the way we view the world and the universe, this new edition of *The Science Class You Wish You Had* will take you on a journey through space and time—from the subatomic to the universal. It explains in a lively, accessible way what these milestones of scientific discovery mean and what direct impact they have on our lives today and will have in the future. For everyone interested in science, history, and biographies of extraordinary people—or anyone who wants to understand the workings of the physical world—this thorough and authoritative book is a perfect introduction to science’s most profound discoveries, and a testament to the triumph of human knowledge. Newton: Gravity and the Basic Laws of Physics Rutherford and Bohr: The Structure of the Atom Einstein: The Principle of Relativity Hubble: The Big Bang and the Formation of the Universe Darwin: Evolution and the Principle of Natural Selection Flemming and Mendel: The Cell and Genetics Watson and Crick: The Structure of the DNA Molecule

Heroes of the Scientific World Charles Robert Gibson. 1970 Excerpt from *Heroes of the Scientific World: An Account of the Lives, Sacrifices, Successes, and Failures of Some of the Greatest Scientists in the World's History* The author is indebted also to the following friends for assistance with the illustrations Professor James Muir, Glasgow Mary Hancock Thomson, Newcastle-upon Tyne; the Wolf Safety Lamp Co. Ltd., Leeds the Electric Co., Ltd., London; the Westinghouse Co., Ltd Siemens Bros., Ltd.; the Poulsen Co. Ltd. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Scientifica Historica Brian Clegg. 2019-10-01 *Scientifica Historica* is an illustrated, essay-based review of those books that marked the development of science from ancient civilizations to the new millennium. The book is divided into five eras and explores the leading scientific pioneers, discoveries and books within them: Ancient World – looks at the beginnings of language, plus the first ever scientific documents produced and translated Renaissance in Print – explores the effects of the invention of the printing press and the exploration of the seas and skies Modern Classical – surveys the nineteenth century and the development of science as a profession Post-Classical – dissects the twentieth century and the introduction of relativity, quantum theory and genetics The Next Generation – reviews the period from 1980 to the modern day, showing how science has become accessible to the general public Plus an introduction to the history and development of writing and books in general, and a list of the 150 greatest science books published. From carvings and scrolls to glossy bound tomes, this book beautifully illustrates the evolution of scientific communication to the world. By recounting the history of science via its key works—those books written by the keenest minds our world has known—this book reflects the physical results of brilliant thought manifested in titles that literally changed the course of knowledge.

Whispering the Strategies of Language: An Mental Quest through **Scientifica Historica How The World S Great Scien**

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wordsmith, this enchanting opus invites readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the psychological depths of this poignant review, we can embark upon a heartfelt exploration of the book's key styles, dissect their fascinating publishing model, and feel the effective resonance it evokes within the recesses of readers' hearts.

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