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The Scientists A History Of Science Told Through The Lives Of Its Greatest Inventors

Offers brief profiles of scientists from ancient times to the present day, including lesser-known figures and women pioneers.

The Faber Book of Science introduces hunting spiders and black holes, gorillas and stardust, protons, photons and neutrinos. In his acclaimed anthology, John Carey plots the development of

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modern science from Leonardo da Vinci to Chaos Theory. The emphasis is on the scientists themselves and their own accounts of their breakthroughs and achievements. The classic science-writers are included - Darwin, T.H. Huxley and Jean Henri Fabre tracking insects through the Provencal countryside. So too are today's experts - Steve Jones on the Human Genome Project, Richard Dawkins on DNA and many other representatives of the contemporary genre of popular science-writing which, John Carey argues, challenges modern poetry and fiction in its imaginative power.

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A fresh approach to a timely topic, *Stolen Science* is a fascinating compendium of stories of uncredited scientists and inventors throughout the ages. Over the centuries, women, people from underrepresented communities, and immigrants overcame prejudices and social obstacles to make remarkable discoveries in science--but they weren't the ones to receive credit in history books. People with more power, money, and prestige were remembered as the inventor of the telephone, the scientists who decoded the structure of DNA, and the doctor who discovered the cause of yellow fever. This book aims to set the record straight

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and celebrate the nearly forgotten inventors and scientists who shaped our world today.

How scientists through the ages have conducted thought experiments using imaginary entities—demons—to test the laws of nature and push the frontiers of what is possible Science may be known for banishing the demons of superstition from the modern world. Yet just as the demon-haunted world was being exorcized by the enlightening power of reason, a new kind of demon mischievously materialized in the scientific imagination itself. Scientists began to employ hypothetical beings to

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perform certain roles in thought experiments—experiments that can only be done in the imagination—and these impish assistants helped scientists achieve major breakthroughs that pushed forward the frontiers of science and technology.

Spanning four centuries of discovery—from René Descartes, whose demon could hijack sensorial reality, to James Clerk Maxwell, whose molecular-sized demon deftly broke the second law of thermodynamics, to Darwin, Einstein, Feynman, and beyond—Jimena Canales tells a shadow history of science and the demons that bedevil it. She reveals

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how the greatest scientific thinkers used demons to explore problems, test the limits of what is possible, and better understand nature. Their imaginary familiars helped unlock the secrets of entropy, heredity, relativity, quantum mechanics, and other scientific wonders—and continue to inspire breakthroughs in the realms of computer science, artificial intelligence, and economics today. The world may no longer be haunted as it once was, but the demons of the scientific imagination are alive and well, continuing to play a vital role in scientists' efforts to explore the unknown and make the impossible real.

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Water

Stolen Science

Lives Of The Scientists

Making "Nature"

From Philosophy to Utility, Third Edition

The Usborne Book of Scientists

Why and How to Study Science

Did you know the early Islamic world bred scientists and scholars who made significant contributions to the field of science and technology? This book will introduce some of the most important names of the time. Read this book to open your mind into a different definition of Islam.

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Grow your knowledge with one topic at a time. Include this book in your collection.

Covers the flat earth theory, the Piltdown Man, the Tay bridge collapse, Chernobyl, cold fusion, and the Hubble space telescope mistake.

This book provides an in-depth ethnographic study of science and religion in the context of South Asia, giving voice to Indian scientists and shedding valuable light on their engagement with religion. Drawing on biographical, autobiographical, historical, and ethnographic material, the volume focuses on scientists' religious life and practices, and the variety of ways in which they express them. Renny Thomas challenges the idea that science

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and religion in India are naturally connected and argues that the discussion has to go beyond binary models of 'conflict' and 'complementarity'. By complicating the understanding of science and religion in India, the book engages with new ways of looking at these categories. An illuminating collection of essays by an award-winning scientist whom the London Times calls "one of the world's most original minds." From Galileo to today's amateur astronomers, scientists have been rebels, writes Freeman Dyson. Like artists and poets, they are free spirits who resist the restrictions their cultures impose on them. In their pursuit of Nature's truths, they are guided as much by imagination as by reason, and their greatest

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theories have the uniqueness and beauty of great works of art. Dyson argues that the best way to understand science is by understanding those who practice it. He tells stories of scientists at work, ranging from Isaac Newton's absorption in physics, alchemy, theology, and politics, to Ernest Rutherford's discovery of the structure of the atom, to Albert Einstein's stubborn hostility to the idea of black holes. His descriptions of brilliant physicists like Edward Teller and Richard Feynman are enlivened by his own reminiscences of them. He looks with a skeptical eye at fashionable scientific fads and fantasies, and speculates on the future of climate prediction, genetic engineering, the colonization of space, and the

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possibility that paranormal phenomena may exist yet not be scientifically verifiable. Dyson also looks beyond particular scientific questions to reflect on broader philosophical issues, such as the limits of reductionism, the morality of strategic bombing and nuclear weapons, the preservation of the environment, and the relationship between science and religion. These essays, by a distinguished physicist who is also a lovely writer, offer informed insights into the history of science and fresh perspectives on contentious current debates about science, ethics, and faith.

Scientists and Scholars of the Early Islamic World -
Islamic Empire History Book 3rd Grade | Children's

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History

Challenges to Scientific Authority in Modern America

How Military Funding Shaped What We Do and Don ' t

Know about the Ocean

The Genesis of Science

Anthropology and Modern Knowledge

Beyond Disenchantment

A History of Science Told Through the Lives of Its

Greatest Inventors

Americans have long been suspicious of experts and elites. This new history explains why so many have believed that science has

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the power to corrupt American culture. Americans today are often skeptical of scientific authority. Many conservatives dismiss climate change and Darwinism as liberal fictions, arguing that “tenured radicals” have coopted the sciences and other disciplines. Some progressives, especially in the universities, worry that science’s celebration of objectivity and neutrality masks its attachment to Eurocentric and patriarchal values. As we grapple with the implications of climate change and

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revolutions in fields from biotechnology to robotics to computing, it is crucial to understand how scientific authority functions—and where it has run up against political and cultural barriers. Science under Fire reconstructs a century of battles over the cultural implications of science in the United States. Andrew Jewett reveals a persistent current of criticism which maintains that scientists have injected faulty social philosophies into the nation's bloodstream under the cover of neutrality. This charge of

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corruption has taken many forms and appeared among critics with a wide range of social, political, and theological views, but common to all is the argument that an ideologically compromised science has produced an array of social ills. Jewett shows that this suspicion of science has been a major force in American politics and culture by tracking its development, varied expressions, and potent consequences since the 1920s. Looking at today's battles over science, Jewett argues that citizens and

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leaders must steer a course between, on the one hand, the naïve image of science as a pristine, value-neutral form of knowledge, and, on the other, the assumption that scientists' claims are merely ideologies masquerading as truths.

Charts the origins, growth, and consolidation of sociology, linguistics, economics, anthropology, and psychology

A wonderfully readable account of scientific development over the past five hundred years, focusing on the lives and achievements of

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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 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,

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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

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publication, The Scientists breathes new life into such 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.

Increasingly, scholars in the humanities are calling for a reengagement with the natural sciences. Taking their cues from recent breakthroughs in genetics and the

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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

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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

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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 Faber Book of Science

Authorship and the Politics of Knowledge in the Nineteenth Century

The Scientists

The Scientist as Rebel

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***A Tale of Seven Scientists and a New
Philosophy of Science***

***How to Write More Easily and Effectively
throughout Your Scientific Career
Great Scientists***

Science is an ever-growing, ever-changing field of study. Every principle, every discovery is built on top of a previous discovery. Great scientists have studied life, the environment, and the physical world trying to learn more about why things are the way they are. Readers gain insight to some of the greatest scientific minds history has to offer, from Archimedes to

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Stephen Hawking.

Profiles the scientists who made significant contributions, describes their failures and accomplishments, and explains how they impacted science and society.

Who are scientists? What kind of people are they? What capacities and virtues are thought to stand behind their considerable authority? They are experts—indeed, highly respected experts—authorized to describe and interpret the natural world and widely trusted to help transform knowledge into power and profit. But are they morally different from other people? The Scientific Life is historian Steven Shapin's

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story about who scientists are, who we think they are, and why our sensibilities about such things matter.

Conventional wisdom has long held that scientists are neither better nor worse than anyone else, that personal virtue does not necessarily accompany technical expertise, and that scientific practice is profoundly impersonal. Shapin, however, here shows how the uncertainties attending scientific research make the virtues of individual researchers intrinsic to scientific work. From the early twentieth-century origins of corporate research laboratories to the high-flying scientific entrepreneurship of the present, Shapin argues that the radical uncertainties of much

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contemporary science have made personal virtues more central to its practice than ever before, and he also reveals how radically novel aspects of late modern science have unexpectedly deep historical roots. His elegantly conceived history of the scientific career and character ultimately encourages us to reconsider the very nature of the technical and moral worlds in which we now live. Building on the insights of Shapin's last three influential books, featuring an utterly fascinating cast of characters, and brimming with bold and original claims, The Scientific Life is essential reading for anyone wanting to reflect on late modern American culture and how it has been shaped.

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A leading scientist describes his life, his gender transition, his scientific work, and his advocacy for gender equality in science. Ben Barres was known for his groundbreaking scientific work and for his groundbreaking advocacy for gender equality in science. In this book, completed shortly before his death from pancreatic cancer in December 2017, Barres (born in 1954) describes a life full of remarkable accomplishments—from his childhood as a precocious math and science whiz to his experiences as a female student at MIT in the 1970s to his female-to-male transition in his forties, to his scientific work and role as teacher and mentor at Stanford. Barres

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recounts his early life—his interest in science, first manifested as a fascination with the mad scientist in Superman; his academic successes; and his gender confusion. Barres felt even as a very young child that he was assigned the wrong gender. After years of being acutely uncomfortable in his own skin, Barres transitioned from female to male. He reports he felt nothing but relief on becoming his true self. He was proud to be a role model for transgender scientists. As an undergraduate at MIT, Barres experienced discrimination, but it was after transitioning that he realized how differently male and female scientists are treated. He became an advocate for gender equality in

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science, and later in life responded pointedly to Larry Summers's speculation that women were innately unsuited to be scientists. Privileged white men, Barres writes, "miss the basic point that in the face of negative stereotyping, talented women will not be recognized." At Stanford, Barres made important discoveries about glia, the most numerous cells in the brain, and he describes some of his work. "The most rewarding part of his job," however, was mentoring young scientists. That, and his advocacy for women and transgender scientists, ensures his legacy.

From Natural Philosophy to the Sciences

A Visual and Scientific History

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The History of a Scientific Journal

The Scientist's Guide to Writing

Phrenology, Race, and the Global History of Science, 1815-1920

A Brief History of how Wrong Scientists Can Sometimes be

The Scientific Journal

Explore the lives and achievements of more than 85 of the world's most inspirational and influential scientists with this innovative and boldly graphic biography-led book. The second title in DK's new illustrated biography series, Scientists Who Changed History profiles trailblazing individuals from Greek

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mathematicians, such as Archimedes and Hipparchus, through physicists of the early 20th-century, such as Marie Curie and Albert Einstein, to modern greats such as Stephen Hawking and Tim Berners-Lee. Each featured individual has made a major contribution to one or more scientific fields, from astronomy, biology, and psychology, to computer science and geology. Combining elements of biography, history, and analysis, Scientists Who Changed History explains the groundbreaking contributions made by these revolutionary men and women in a clear and informative way.

Making "Nature" is the first book to chronicle the foundation and development of Nature, one of the

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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.

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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.

This is not only the first global history of nineteenth-century science but the first global history of phrenology. Phrenology was the most popular mental science of the Victorian age. From American senators to Indian social reformers, this new mental science found supporters around the globe. Materials of the Mind tells the story of how phrenology changed the

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world—and how the world changed phrenology. This is a story of skulls from the Arctic, plaster casts from Haiti, books from Bengal, and letters from the Pacific. Drawing on far-flung museum and archival collections, and addressing sources in six different languages, Materials of the Mind is an impressively innovative account of science in the nineteenth century as part of global history. It shows how the circulation of material culture underpinned the emergence of a new materialist philosophy of the mind, while also demonstrating how a global approach to history can help us reassess issues such as race, technology, and politics today.

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Lives of Its Greatest Inventors Random House

Scientific Blunders

A Shadow History of Demons in Science

Science Between Myth and History

The Scientific Life

Experiments in History and Politics from the Bolshevik

Revolution to the End of the Cold War

Scientific History

Materials of the Mind

Why the social character of scientific knowledge makes it trustworthy Are doctors right when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global

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warming? Why should we trust science when so many of our political leaders don't? Naomi Oreskes offers a bold and compelling defense of science, revealing why the social character of scientific knowledge is its greatest strength—and the greatest reason we can trust it. Tracing the history and philosophy of science from the late nineteenth century to today, this timely and provocative book features a new preface by Oreskes and critical responses by climate experts Ottmar Edenhofer and Martin Kowarsch, political scientist Jon Krosnick, philosopher of science Marc Lange, and science historian Susan Lindee, as well as a foreword by political theorist Stephen Macedo.

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A concise and accessible primer on the scientific writer's craft The ability to write clearly is critical to any scientific career. The Scientist's Guide to Writing provides practical advice to help scientists become more effective writers so that their ideas have the greatest possible impact. Drawing on his own experience as a scientist, graduate adviser, and editor, Stephen Heard emphasizes that the goal of all scientific writing should be absolute clarity; that good writing takes deliberate practice; and that what many scientists need are not long lists of prescriptive rules but rather direct engagement with their behaviors and attitudes when they write. He combines advice on such

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topics as how to generate and maintain writing momentum with practical tips on structuring a scientific paper, revising a first draft, handling citations, responding to peer reviews, managing coauthorships, and more. In an accessible, informal tone, *The Scientist's Guide to Writing* explains essential techniques that students, postdoctoral researchers, and early-career scientists need to write more clearly, efficiently, and easily. Emphasizes writing as a process, not just a product Encourages habits that improve motivation and productivity Explains the structure of the scientific paper and the function of each part Provides detailed guidance on submission, review,

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revision, and publication Addresses issues related to coauthorship, English as a second language, and more Reveals the history, development, and accomplishments in the field of atomic science by giving the life and achievements of its proponents From brainy biologists and clever chemists to magnificent mathematicians and phenomenal physicists, discover 100 remarkable scientists who shaped our world. Containing a universe of knowledge, 100 Scientists Who Made History tells the story of the people who increased our grasp of almost everything around us. From Aristotle and Rosalind Franklin, to Marie Curie, Stephen Hawking, and Brian Cox, get the

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lowdown on the people whose thirst for knowledge has shaped the way we live today. Find out when each scientist lived, what they discovered, and why it was important. Learn a little about the life of each person and how they made their discoveries - some studied for years and some discoveries happened by accident! See how scientists through time built on each other's work to advance their research and our knowledge about the world. With beautiful photography and illustrations, 100 Scientists Who Made History is a fascinating look at the most important scientists and their discoveries.

Science on a Mission
The Atomic Scientists

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Why Trust Science?

Science and Religion in India

A Moral History of a Late Modern Vocation

100 Scientists Who Shaped World History

Discover the true genius behind history's greatest "madmen". From Dr. Frankenstein to Dr. Jekyll, the image of the mad scientist surrounded by glass vials, copper coils, and electrical apparatus remains a popular fixture. In films and fiction, he's comically misguided, tragically misunderstood, or pathologically evil. But the origins of

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this stereotype can be found in the sometimes-eccentric real life men and women who challenged our view of the world and broke new scientific frontiers. They Called Me Mad recounts the amazing true stories of such historical luminaries as Archimedes, the calculator of pi and creator of the world's first death ray; Isaac Newton, the world's first great scientist and the last great alchemist; Nikola Tesla, who built the precursors of robots, fluorescent lighting, and particle beam weapons before the turn of the

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twentieth century-and more.

Scientists throughout history, from Galileo to today's experts on climate change, have often had to contend with politics in their pursuit of knowledge. But in the Soviet Union, where the ruling elites embraced, patronized, and even fetishized science like never before, scientists lived their lives on a knife edge. The Soviet Union had the best-funded scientific establishment in history. Scientists were elevated as popular heroes and lavished with awards and privileges.

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But if their ideas or their field of study lost favor with the elites, they could be exiled, imprisoned, or murdered. And yet they persisted, making major contributions to 20th century science. *The Scientists* tells the story of the many gifted scientists who worked in Russia from the years leading up to the Revolution through the death of the “Great Scientist” himself, Joseph Stalin. It weaves together the stories of scientists, politicians, and ideologues into an intimate and sometimes horrifying portrait

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of a state determined to remake the world. They often wreaked great harm. Stalin was himself an amateur botanist, and by falling under the sway of dangerous charlatans like Trofim Lysenko (who denied the existence of genes), and by relying on antiquated ideas of biology, he not only destroyed the lives of hundreds of brilliant scientists, he caused the death of millions through famine. But from atomic physics to management theory, and from radiation biology to neuroscience and psychology, these Soviet experts also made

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breakthroughs that forever changed agriculture, education, and medicine. A masterful book that deepens our understanding of Russian history, Stalin and the Scientists is a great achievement of research and storytelling, and a gripping look at what happens when science falls prey to politics.

Many young Christians interested in the sciences have felt torn between two options: remaining faithful to Christ or studying science. In this concise introduction, Josh Reeves and Steve

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Donaldson provide both advice and encouragement for Christians in the sciences to bridge the gap between science and Christian belief and practice. Scientists regularly employ historical narrative as a rhetorical tool in their communication of science, yet there's been little reflection on its effects within scientific communities and beyond. *Science Between Myth and History* begins to unravel these threads of influence. The stories scientists tell are not just poorly researched scholarly histories, they are

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myth-histories, a chimeric genre that bridges distinct narrative modes. This study goes beyond polarizing questions about who owns the history of science and establishes a common ground from which to better understand the messy and lasting legacy of the stories scientists tell. It aims to stimulate vigorous conversation among science practitioners, scholars, and communicators. Scientific myth-histories undoubtedly deliver value, coherence, and inspiration to their communities. They are tools used to broker scientific consensus,

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resolve controversies, and navigate power dynamics. Yet beyond the explicit intent and rationale behind their use, these narratives tend to have great rhetorical power and social agency that bear unintended consequences. This book unpacks the concept of myth-history and explores four case studies in which scientist storytellers use their narratives to teach, build consensus, and inform the broader public. From geo-politically informed quantum interpretation debates to high-stakes gene-editing patent disputes,

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these case studies illustrate the implications of storytelling in science. Science Between Myth and History calls on scientists not to eschew writing about their history, but to take more account of the stories they tell and the image of science they project. In this time of eroding common ground, when many find themselves dependent on, yet distrustful of scientific research, this book interrogates the effects of mismatched, dissonant portraits of science. How the Christian Middle Ages Launched the

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Scientific Revolution

Women in Science

Experiments, Explosions (and What the Neighbors Thought)

Bedeviled

Science under Fire

Why I Am Not a Scientist

Forgotten Women: The Leaders

In his latest book, Eric Scerri presents a completely original account of the nature of scientific progress. It consists of a holistic and unified approach in which science is seen as a living and evolving single organism. Instead of scientific revolutions featuring exceptionally gifted individuals, Scerri argues that the

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"little people" contribute as much as the "heroes" of science. To do this he examines seven case studies of virtually unknown chemists and physicists in the early 20th century quest to discover the structure of the atom. They include the amateur scientist Anton van den Broek who pioneered the notion of atomic number as well as Edmund Stoner a then physics graduate student who provided the seed for Pauli's Exclusion Principle. Another case is the physicist John Nicholson who is virtually unknown and yet was the first to propose the notion of quantization of angular momentum that was soon put to good use by Niels Bohr. Instead of focusing on the logic and rationality of science, Scerri elevates the role of trial and error and multiple discovery and moves beyond the notion of scientific developments being right or wrong. While criticizing

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Thomas Kuhn's notion of scientific revolutions he agrees with Kuhn that science is not drawn towards an external truth but is rather driven from within. The book will enliven the long-standing debate on the nature of science, which has increasingly shied away from the big question of "what is science?" A vivid portrait of how Naval oversight shaped American oceanography, revealing what difference it makes who pays for science. What difference does it make who pays for science? Some might say none. If scientists seek to discover fundamental truths about the world, and they do so in an objective manner using well-established methods, then how could it matter who's footing the bill? History, however, suggests otherwise. In science, as elsewhere, money is power. Tracing the recent history of oceanography, Naomi Oreskes discloses dramatic

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changes in American ocean science since the Cold War, uncovering how and why it changed. Much of it has to do with who pays. After World War II, the US military turned to a new, uncharted theater of warfare: the deep sea. The earth sciences—particularly physical oceanography and marine geophysics—became essential to the US Navy, which poured unprecedented money and logistical support into their study. *Science on a Mission* brings to light how this influx of military funding was both enabling and constricting: it resulted in the creation of important domains of knowledge but also significant, lasting, and consequential domains of ignorance. As Oreskes delves into the role of patronage in the history of science, what emerges is a vivid portrait of how naval oversight transformed what we know about the sea. It is a detailed,

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sweeping history that illuminates the ways funding shapes the subject, scope, and tenor of scientific work, and it raises profound questions about the purpose and character of American science. What difference does it make who pays? The short answer is: a lot.

"Highly readable and informative, this critical series of vignettes illustrates a long history of the corruption of science by folk beliefs, careerism, and sociopolitical agendas. Marks repeatedly brings home the message that we should challenge scientists, especially molecular geneticists, before we accept their results and give millions of dollars in public and private funds toward their enterprises."—Russell Tuttle, The University of Chicago "Jonathan Marks has produced a personal and compelling story of how science works. His involvement in

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scientific endeavor in human biology and evolution over the past three decades and his keen sense of the workings of science make this book a must read for both scientists and lay readers. In this sense, the lay reader will learn how scientists should and shouldn't think and some scientists who read this book will come away thinking they are truly not scientists nor would they want to be."—Rob DeSalle, American Museum of Natural History "Jonathan Marks's *Why I Am Not a Scientist* provides food for thought, and as expected, it's digestible. In unusually broad perspective, this anthropology of knowledge considers science and race and racism, gender, fraud, misconduct and creationism in a way that makes one proud to be called a scientist."—George J. Armelagos, Emory University

During the 19th century, much of the modern scientific

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enterprise took shape: scientific disciplines were formed, institutions and communities were founded and unprecedented 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 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.

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Fearless Pioneers Who Changed the World

Scientists Who Changed History

Stalin and the Scientists

A History of Science in Society

A Little Book for New Scientists

100 Scientists Who Made History

The Quest for Common Ground and Its Importance for Scientific Practice

"An update of the popular overview, A History of Science in Society traces the development of scientific thought throughout the ages. Beginning with the philosophy of the Ancient Greeks and Romans and proceeding through the Middle Ages, the Renaissance, the Enlightenment, and through to the present-day, the book presents key

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developments in scientific thought and theory. The new edition includes more material on non-Western science; new material on ethics, climate change, and corporate science in the twentieth and twenty-first centuries; more than 90 illustrations; updated timelines; and study questions designed to guide students."--

Profiles the great men and women scientists who have contributed to some of the most important scientific breakthroughs in history, including Copernicus, Einstein, Curie, and the Leakeys.

The Not-So-Dark Dark Ages What they forgot to teach you in school: People in the Middle Ages did not think the world was flat The Inquisition never executed anyone because of their scientific ideologies It was medieval scientific discoveries,

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including various methods, that made possible Western civilization's "Scientific Revolution" As a physicist and historian of science James Hannam debunks myths of the Middle Ages in his brilliant book *The Genesis of Science: How the Christian Middle Ages Launched the Scientific Revolution*. Without the medieval scholars, there would be no modern science. Discover the Dark Ages and their inventions, research methods, and what conclusions they actually made about the shape of the world.

Not since the printing press has a media object been as celebrated for its role in the advancement of knowledge as the scientific journal. From open communication to peer review, the scientific journal has long been central both to the identity of academic scientists and to the public legitimacy of

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scientific knowledge. But that was not always the case. At the dawn of the nineteenth century, academies and societies dominated elite study of the natural world. Journals were a relatively marginal feature of this world, and sometimes even an object of outright suspicion. The Scientific Journal tells the story of how that changed. Alex Csiszar takes readers deep into nineteenth-century London and Paris, where savants struggled to reshape scientific life in the light of rapidly changing political mores and the growing importance of the press in public life. The scientific journal did not arise as a natural solution to the problem of communicating scientific discoveries. Rather, as Csiszar shows, its dominance was a hard-won compromise born of political exigencies, shifting epistemic values, intellectual property debates, and the

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demands of commerce. Many of the tensions and problems that plague scholarly publishing today are rooted in these tangled beginnings. As we seek to make sense of our own moment of intense experimentation in publishing platforms, peer review, and information curation, Csiszar argues powerfully that a better understanding of the journal's past will be crucial to imagining future forms for the expression and organization of knowledge.

The Norton History of the Human Sciences

A History of Triumph and Tragedy, 1905–1953

The Autobiography of a Transgender Scientist

A Biographical History

Genius, Madness, and the Scientists Who Pushed the Outer Limits of Knowledge

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Writing the History of Nineteenth-Century Science

The Structure of Scientific Revolutions

The story of the most abundant substance on Earth, from its origins in the birth of stars billions of years ago to its importance in the living world. Water is so ubiquitous in our lives that it is easy to take for granted. The average American uses ninety gallons of water a day; nearly every liquid we encounter is mostly water--milk, for example, is 87 percent

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water. Clouds and ice--water in other forms--affect our climate. Water is the most abundant substance on Earth, and the third-most abundant molecule in the universe. In this lavishly illustrated volume, science writer Jack Challoner tells the story of water, from its origins in the birth of stars to its importance in the living world. Water is perhaps the most studied compound in the universe--although mysteries about it remain--and Challoner describes how

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thinkers from ancient times have approached the subject. He offers a detailed and fascinating look at the structure and behavior of water molecules, explores the physics of water--explaining, among other things, why ice is slippery--and examines the chemistry of water. He investigates photosynthesis and water's role in evolutionary history, and discusses water and weather, reviewing topics that range from snowflake science to

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climate change. Finally, he considers the possibility of water beyond our own hydrosphere--on other planets, on the Moon, in interstellar space.

Scientists have a reputation for being focused on their work--and maybe even dull. But take another look. Did you know that it's believed Galileo was scolded by the Roman Inquisition for sassing his mom? That Isaac Newton loved to examine soap bubbles? That Albert Einstein loved to collect joke

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books, and that geneticist Barbara McClintock wore a Groucho Marx disguise in public? With juicy tidbits about everything from favorite foods to first loves, the subjects of Kathleen Krull and Kathryn Hewitt's Lives of the Scientists: Experiments, Explosions (and What the Neighbors Thought) are revealed as creative, bold, sometimes eccentric—and anything but dull. A collection of artworks inspired by the lives and achievements of fifty

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famous women in science, technology, engineering, and mathematics, from the ancient world to the present, profiles each notable individual.

'To say this series is "empowering" doesn't do it justice. Buy a copy for your daughters, sisters, mums, aunts and nieces - just make sure you buy a copy for your sons, brothers, dads, uncles and nephews, too.' - indy100

'Here's to no more forgotten women.'
Evening Standard The women who shaped

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and were erased from our history. The Forgotten Women series will uncover the lost histories of the influential women who have refused over hundreds of years to accept the hand they've been dealt and, as a result, have formed, shaped and changed the course of our futures. The Leaders weaves together 48 unforgettable portraits of the true pioneers and leaders who made huge yet unacknowledged contributions to history, including: Grace O'Malley, the*

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16th century Irish pirate queen Sylvia Rivera, who spearheaded the modern transgender rights movement Agent 355, the unknown rebel spy who played a pivotal role in the American Revolution Noor Inayat Khan, who went undercover to spy for the French Resistance and became Nazi enemy no. 1 Amina of Zazzau, the formidable ancient Muslim warrior queen of Northern Nigeria Chapters including Rebels; Warriors; Rulers; Activists and Reformers shine a

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*spotlight on the rebellious women who
defied the odds, and the opposition, to
change the world around them. *The
number of Nobel-prize-winning women.
They Called Me Mad
An Epic of Discovery*