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Science And The Modern World Whitehead

This volume presents a global narrative of the origins of the modern world. Unlike most studies, which assume that the

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rise of the West is the story of the coming of the modern world, this history accords importance to the 'underdeveloped world'. From a critically acclaimed author comes an engagingly

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written and groundbreaking new work that highlights the long-underestimated British role in delivering the Enlightenment to the modern world. Porter reveals how the monumental transformation of

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thinking in Great Britain influenced wider developments elsewhere. of color illustrations.

Alfred North Whitehead's SCIENCE AND THE MODERN WORLD, originally published in

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1925, redefines the concept of modern science. Presaging by more than half a century most of today's cutting-edge thought on the cultural ramifications of science and technology, Whitehead demands that

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readers understand and celebrate the contemporary, historical, and cultural context of scientific discovery. Taking readers through the history of modern science, Whitehead shows how cultural history has

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affected science over the ages in relation to such major intellectual themes as romanticism, relativity, quantum theory, religion, and movements for social progress. Once upon a time 'The

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Scientific Revolution of the 17th century' was an innovative concept that inspired a stimulating narrative of how modern science came into the world. Half a century later, what we now know as

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'the master narrative' serves rather as a strait-jacket - so often events and contexts just fail to fit in. No attempt has been made so far to replace the master narrative. H. Floris Cohen now comes up with

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precisely such a replacement. Key to his path-breaking analysis-cum-narrative is a vision of the Scientific Revolution as made up of six distinct yet narrowly interconnected, revolutionary

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transformations, each of some twenty-five to thirty years' duration. This vision enables him to explain how modern science could come about in Europe rather than in Greece, China, or the Islamic world. It

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also enables him to explain how half-way into the 17th century a vast crisis of legitimacy could arise and, in the end, be overcome.

*Physics in the Modern World
The Origins of the Modern*

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World

*Six Innovations That Made the
Modern World*

*The Cultural and Social History
of Vermin*

*How We Got to Now
Empire*

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A bestselling historian shows how the British Empire created the modern world, in a book lauded as "a rattling good tale" (Wall Street Journal) and "popular history at its best" (Washington Post) The British Empire was the largest in all history: the nearest thing to global

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domination ever achieved. The world we know today is in large measure the product of Britain's Age of Empire. The global spread of capitalism, telecommunications, the English language, and institutions of representative government -- all these can be traced back to the

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extraordinary expansion of Britain's economy, population and culture from the seventeenth century until the mid-twentieth. On a vast and vividly colored canvas, Empire shows how the British Empire acted as midwife to modernity. Displaying the originality and rigor that have

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made Niall Ferguson one of the world's foremost historians, *Empire* is a dazzling tour de force -- a remarkable reappraisal of the prizes and pitfalls of global empire. An exciting account of the origins of the modern world Who formed the first literate society? Who

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invented our modern ideas of democracy and free market capitalism? The Scots. As historian and author Arthur Herman reveals, in the eighteenth and nineteenth centuries Scotland made crucial contributions to science, philosophy, literature, education,

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medicine, commerce, and politics—contributions that have formed and nurtured the modern West ever since. Herman has charted a fascinating journey across the centuries of Scottish history. Here is the untold story of how John Knox and the Church of

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Scotland laid the foundation for our modern idea of democracy; how the Scottish Enlightenment helped to inspire both the American Revolution and the U.S. Constitution; and how thousands of Scottish immigrants left their homes to create the American

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frontier, the Australian outback, and the British Empire in India and Hong Kong. How the Scots Invented the Modern World reveals how Scottish genius for creating the basic ideas and institutions of modern life stamped the lives of a series of remarkable historical

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figures, from James Watt and Adam Smith to Andrew Carnegie and Arthur Conan Doyle, and how Scottish heroes continue to inspire our contemporary culture, from William "Braveheart" Wallace to James Bond. And no one who takes this incredible historical trek will

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ever view the Scots—or the modern West—in the same way again.

This new text is a detailed study of an important process in modern Indian history. During the late nineteenth and early twentieth century, India experienced an intellectual renaissance, which

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owed as much to the influx of new ideas from the West as to traditional religious and cultural insights. Gosling examines the effects of the introduction of Western science into India, and the relationship between Indian traditions of thought and secular Western

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scientific doctrine. He charts the early development of science in India, its role in the secularization of Indian society, and the subsequent reassertion, adaptation and rejection of traditional modes of thought. The beliefs of key Indian scientists, including Jagadish

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Chandra Bose, P.C. Roy and S.N. Bose are explored and the book goes on to reflect upon how individual scientists could still accept particular religious beliefs such as reincarnation, cosmology, miracles and prayer. Science and the Indian Tradition gives an in-

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depth assessment of results of the introduction of Western science into India, and will be of interest to scholars of Indian history and those interested in the interaction between Western and Indian traditions of intellectual thought. This collection of essays considers

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the place of magic in the modern world, first by exploring the ways in which modernity has been defined in explicit opposition to magic and superstition, and then by illuminating how modern proponents of magic have worked to legitimize their practices through

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an overt embrace of evolving forms such as esotericism and supernaturalism. Taking a two-track approach, this book explores the complex dynamics of the construction of the modern self and its relation to the modern preoccupation with magic. Essays

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examine how modern "rational" consciousness is generated and maintained and how proponents of both magical and scientific traditions rationalize evidence to fit accepted orthodoxy. This book also describes how people unsatisfied with the norms of modern

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subjectivity embrace various forms of magic—and the methods these modern practitioners use to legitimate magic in the modern world. A compelling assessment of magic from the early modern period to today, *Magic in the Modern World* shows how, despite the dominant

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culture's emphatic denial of their validity, older forms of magic persist and develop while new forms of magic continue to emerge. In addition to the editors, contributors include Egil Asprem, Erik Davis, Megan Goodwin, Dan Harms, Adam Jortner, and Benedek

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Láng.

Science and the Making of the
Modern World

Institutionalization and
Globalization

How Information and Technology
Made the Modern World

Epidemics and the Modern World

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Process-Relational Philosophy A Democratic Turn?

We live in a world that is increasingly vulnerable to climatic shocks – affecting agriculture and industry, government and

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international trade, not to mention human health and happiness. Serious anxieties have been aroused by respected scientists warning of dire perils that could result

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from upsets of the climatic regime. In this internationally acclaimed book, Emeritus Professor Hubert Lamb examines what we know about climate, how the past record of climate

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can be reconstructed, the causes of climatic variation, and its impact on human affairs now and in the historical and prehistoric past. This 2nd Edition includes a new

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preface and postscript reviewing the wealth of literature to emerge in recent years, and discusses implications for a deeper understanding of the problems of future

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climatic fluctuations and forecasting.

A masterful commentary on the history of science from the Greeks to modern times, by Nobel Prize-winning physicist Steven

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Weinberg—a thought-provoking and important book by one of the most distinguished scientists and intellectuals of our time. In this rich, irreverent, and compelling

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history, Nobel Prize-winning physicist Steven Weinberg takes us across centuries from ancient Miletus to medieval Baghdad and Oxford, from Plato's Academy and the

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Museum of Alexandria to the cathedral school of Chartres and the Royal Society of London. He shows that the scientists of ancient and medieval times not only did not

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understand what we understand about the world—they did not understand what there is to understand, or how to understand it. Yet over the centuries, through the

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struggle to solve such mysteries as the curious backward movement of the planets and the rise and fall of the tides, the modern discipline of science eventually

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emerged. Along the way, Weinberg examines historic clashes and collaborations between science and the competing spheres of religion, technology, poetry, mathematics, and

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philosophy. An illuminating exploration of the way we consider and analyze the world around us, *To Explain the World* is a sweeping, ambitious account of how difficult

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it was to discover the goals and methods of modern science, and the impact of this discovery on human knowledge and development.

...probably the first

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thorough review of modern demonology...superb.

Recommended... - Library Journal...a terrifically contextualized debunking that is sure to generate debate among the faithful.

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- Publishers Weekly...a fascinating book on the psychology of modern Western culture. - Science & Spirit Magazine This fascinating discussion of modern demonology focuses

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on our ability to differentiate the physical world, with its mechanical laws, from the inherently less predictable psychological realm of thoughts and beliefs.

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McGrath points out that this ability was a hard-won historical development, and today must be learned in childhood through education. Because of this

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historical background and our rich fantasy life in childhood, each of us unconsciously suspects, or fears, that supernatural forces may break through the borders of our

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everyday commonsense order at any time. Indeed, at times of personal stress or societal crisis, the modern boundaries between fantasy and reality begin to slip, and then a

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magical world of demons and other phantasms can come flooding back into our disenchanted reality. Through this innovative thesis McGrath goes a long way toward

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explaining both our fascination with fantasy entertainment, such as horror stories and films, and bizarre crazes such as witch-hunts, Satanism scares, and even claims of

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alien abduction. Despite our demystified culture the lure of childhood's magic kingdom with its monstrous shadow realm remains strong. Malcolm McGrath (Toronto, Ontario,

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Canada) is a doctoral candidate in political philosophy at Oxford University.

Since the emergence of religious studies and the social sciences as

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academic disciplines, the concept of "magic" has played a major role in defining religion and in mediating the relation of religion to science.

Across these disciplines,

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magic has regularly been configured as a definitively non-modern phenomenon, juxtaposed to distinctly modern models of religion and science. Yet this notion of magic

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has remained stubbornly amorphous. In *Making Magic*, Randall Styers seeks to account for the extraordinary vitality of scholarly discourse purporting to define and

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explain magic despite its failure to do just that. He argues that this persistence can best be explained in light of the Western drive to establish and secure distinctive

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norms for modern identity,
norms based on narrow
forms of instrumental
rationality, industrious
labor, rigidly defined
sexual roles, and the
containment of wayward

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forms of desire. Magic has served to designate a form of alterity or deviance against which dominant Western notions of appropriate religious piety, legitimate

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scientific rationality, and orderly social relations are brought into relief. Scholars have found magic an invaluable tool in their efforts to define the appropriate

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boundaries of religion and science. On a broader level, says Styers, magical thinking has served as an important foil for modernity itself. Debates over the nature of

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magic have offered a particularly rich site at which scholars have worked to define and to contest the nature of modernity and norms for life in the modern world.

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Strategies of Repression
and Legitimization
How Modern Science Came
Into the World
The Electromagnetic Force
That Created the Modern
World--and Could Destroy

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It

Science vs. the Humanities
in the Modern World-system

Buddhism in the Modern
World

The Power of Knowledge

The famed mathematician and

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philosopher takes readers on a journey into a new scientific age, exploring topics from relativity to religion. Alfred North Whitehead, one of the great figures in the philosophy of science, wrote this prescient work nearly a century

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ago. Yet, in an era that has us reckoning with science and technology's place and meaning in our lives, it remains as relevant as ever. Science and the Modern World puts scientific discovery into historical and

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cultural context—exploring the effects of science and people on each other. “It is a work not only of the first importance but also of great beauty. . . . Vivid writing.”

—Nature

The mystery of Earth's invisible,

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life-supporting power Alanna Mitchell's globe-trotting history of the science of electromagnetism and the Earth's magnetic field--right up to the latest indications that the North and South Poles may soon reverse,

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with apocalyptic results--will soon change the way you think about our planet. Award-winning journalist Alanna Mitchell's science storytelling introduce intriguing characters--from the thirteenth-century French

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investigations into magnetism and the Victorian-era discover that electricity and magnetism emerge from the same fundamental force to the latest research. No one has ever told so eloquently how the Earth itself

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came to be seen as a magnet, spinning in space with two poles, and that those poles have dramatically reversed many time, often coinciding with mass extinctions. The most recent reversal was 780,000 years ago.

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Mitchell explores indications that the Earth's magnetic force field is decaying faster than previously thought. When the poles switch, a process that takes many years, the Earth is unprotected from solar radiation storms that would,

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among other disturbances, wipe out much and possibly all of our electromagnetic technology.

Navigation for all kinds of animals is disrupted without a stable, magnetic North Pole. But can you imagine no satellites, no

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Internet, no smartphones--maybe no power grids at all? Alanna Mitchell offers a beautifully crafted narrative history of surprising ideas and science, illuminating invisible parts of our own planet

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that are constantly changing around us.

A guide to modern times that explores the challenges living in the 21st century can pose to our mental wellbeing. The modern world has brought us a range of

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extraordinary benefits and joys, including technology, medicine and transport. But it can also feel as though modern times have plunged us ever deeper into greed, despair and agitation. Seldom has the world felt more

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privileged and resource-rich yet also worried, blinkered, furious, panicked and self-absorbed.

How to Survive the Modern World is the ultimate guide to navigating our unusual times. It identifies a range of themes that

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present acute challenges to our mental wellbeing. The book tackles our relationship to the news media, our ideas of love and sex, our assumptions about money and our careers, our attitudes to animals and the

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natural world, our admiration for science and technology, our belief in individualism and secularism – and our suspicion of quiet and solitude. In all cases, the book helps us to understand how we got to where

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we are, digging deeply and fascinatingly into the history of ideas, while pointing us towards a saner individual and collective future. The emphasis isn't just on understanding modern times but also on knowing how we can

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best relate to the difficulties these present. The book helps us to form a calmer, more authentic, more resilient and sometimes more light-hearted relationship to the follies and obsessions of our age. If modern

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times are (in part) something of a disease, this is both the diagnostic and the soothing, hope-filled cure.

Empires of Knowledge charts the emergence of different kinds of scientific networks – local and

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long-distance, informal and institutional, religious and secular – as one of the important phenomena of the early modern world. It seeks to answer questions about what role these networks played in making

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knowledge, how information traveled, how it was transformed by travel, and who the brokers of this world were. Bringing together an international group of historians of science and medicine, this book looks at the

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changing relationship between knowledge and community in the early modern period through case studies connecting Europe, Asia, the Ottoman Empire, and the Americas. It explores a landscape of understanding (and

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misunderstanding) nature through examinations of well-known intelligencers such as overseas missions, trading companies, and empires while incorporating more recent scholarship on the many less

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prominent go-betweens, such as translators and local experts, which made these networks of knowledge vibrant and truly global institutions. Empires of Knowledge is the perfect introduction to the global history

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of early modern science and
medicine.

Overcoming the Two Cultures

Magic in the Modern World

Science and the Indian Tradition

Making Magic

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Physical Science in the Modern World

Buddhism in the Modern World explores the challenges faced by Buddhism today, the distinctive forms that it has taken and the individuals and movements that

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have shaped it. Part One discusses the modern history of Buddhism in different geographical regions, from Southeast Asia to North America. Part Two examines key themes including globalization, gender issues, and the ways in

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which Buddhism has confronted modernity, science, popular culture and national politics. Each chapter is written by a distinguished scholar in the field and includes photographs, summaries, discussion points and suggestions

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for further reading. The book provides a lively and up-to-date overview that is indispensable for both students and scholars of Buddhism.

Process thought is the foundation for studies in many areas of

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contemporary philosophy, theology, political theory, educational theory, and the religion-science dialogue. It is derived from Alfred North Whitehead's philosophy, known as process theology, which lays a groundwork for integrating

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evolutionary biology, physics, philosophy of mind, theology, environmental ethics, religious pluralism, education, economics, and more. In *Process-Relational Philosophy*, C. Robert Mesle breaks down Whitehead's complex

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writings, providing a simple but accurate introduction to the vision that underlies much of contemporary process philosophy and theology. In doing so, he points to a "way beyond both reductive materialism and the traps of

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Cartesian dualism by showing reality as a relational process in which minds arise from bodies, in which freedom and creativity are foundational to process, in which the relational power of persuasion is more basic than the unilateral

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power of coercion." Because process-relational philosophy addresses the deep intuitions of a relational world basic to environmental and global thinking, it is being incorporated into undergraduate and graduate

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courses in philosophy, educational theory and practice, environmental ethics, and science and values, among others. Process-Relational Philosophy: A Basic Introduction makes Whitehead's creative vision accessible to all students and

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general readers.

Epidemics and the Modern World uses "biographies" of epidemics such as plague, tuberculosis, and HIV/AIDS to explore the impact of diseases on society from the fourteenth century to the twenty-

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first century.

Do you touch wood for luck, or avoid hotel rooms on floor thirteen? Would you cross the path of a black cat, or step under a ladder? Is breaking a mirror just an expensive waste of glass, or

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something rather more sinister? Despite the dominance of science in today's world, superstitious beliefs - both traditional and new - remain surprisingly popular. A recent survey of adults in the United States found that 33 percent

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believed that finding a penny was good luck, and 23 percent believed that the number seven was lucky. Where did these superstitions come from, and why do they persist today? This Very Short Introduction explores the nature

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and surprising history of superstition from antiquity to the present. For two millennia, superstition was a label derisively applied to foreign religions and unacceptable religious practices, and its primary purpose was used to

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separate groups and assert religious and social authority. After the Enlightenment, the superstition label was still used to define groups, but the new dividing line was between reason and unreason. Today, despite our apparent

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sophistication and technological advances, superstitious belief and behaviour remain widespread, and highly educated people are not immune. Stuart Vyse takes an exciting look at the varieties of popular superstitious beliefs today

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and the psychological reasons behind their continued existence, as well as the likely future course of superstition in our increasingly connected world. ABOUT THE SERIES: The Very Short Introductions series from Oxford

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University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and

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enthusiasm to make interesting and
challenging topics highly readable.

Lucretius in the Modern World

Understanding Science and Society

How to Follow Scientists and

Engineers Through Society

The Creation of the Modern World

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Science in the Modern World Polity
How the Scots Invented the
Modern World

How vermin went from being
part of everyone's life to a
mark of disease, filth, and
lower status. For most of our

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time on this planet, vermin were considered humanity's common inheritance. Fleas, lice, bedbugs, and rats were universal scourges, as pervasive as hunger or cold, at home in both palaces and

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hovels. But with the spread of microscopic close-ups of these creatures, the beginnings of sanitary standards, and the rising belief that cleanliness equaled class, vermin began to

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provide a way to scratch a different itch: the need to feel superior, and to justify the exploitation of those pronounced ethnically—and entomologically—inferior. In *Getting Under Our Skin*, Lisa

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T. Sarasohn tells the fascinating story of how vermin came to signify the individuals and classes that society impugns and ostracizes. How did these creatures go from annoyance

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to social stigma? And how did people thought verminous become considered almost a species of vermin themselves? Focusing on Great Britain and North America, Sarasohn explains

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how the label "vermin" makes dehumanization and violence possible. She describes how Cromwellians in Ireland and US cavalry on the American frontier both justified slaughter by warning "Nits

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grow into lice." Nazis not only labeled Jews as vermin, they used insecticides in the gas chambers to kill them during the Holocaust. Concentrating on the insects living in our bodies, clothes, and beds,

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Sarasohn also looks at rats and their social impact. Besides their powerful symbolic status in all cultures, rats' endurance challenges all human pretensions. From eighteenth-

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century London merchants
anointing their carved
bedsteads with roasted cat to
repel bedbugs to modern-day
hedge fund managers hoping
neighbors won't notice
exterminators in their

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penthouses, the studies in this book reveal that vermin continue to fuel our prejudices and threaten our status. Getting Under Our Skin will appeal to cultural historians, naturalists, and to

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anyone who has ever scratched—and then gazed in horror.

From the New York Times – bestselling author of Where Good Ideas Come From and Extra Life, a new

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look at the power and legacy of great ideas. In this illustrated history, Steven Johnson explores the history of innovation over centuries, tracing facets of modern life (refrigeration, clocks, and

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eyeglass lenses, to name a few) from their creation by hobbyists, amateurs, and entrepreneurs to their unintended historical consequences. Filled with surprising stories of

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accidental genius and brilliant mistakes—from the French publisher who invented the phonograph before Edison but forgot to include playback, to the Hollywood movie star who helped invent the

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technology behind Wi-Fi and Bluetooth—How We Got to Now investigates the secret history behind the everyday objects of contemporary life. In his trademark style, Johnson examines

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unexpected connections between seemingly unrelated fields: how the invention of air-conditioning enabled the largest migration of human beings in the history of the species—to cities such as

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Dubai or Phoenix, which would otherwise be virtually uninhabitable; how pendulum clocks helped trigger the industrial revolution; and how clean water made it possible to manufacture computer

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chips. Accompanied by a major six-part television series on PBS, *How We Got to Now* is the story of collaborative networks building the modern world, written in the provocative,

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informative, and engaging style that has earned Johnson fans around the globe.

An engaging exploration of the scientific theories and medical conditions relating to stress and an examination of

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case studies that suggest ways to manage, reduce, and prevent stress in everyday life.

This book presents empirical studies of the rise, expansion, and influence of scientific

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discourse and organization throughout the world, over the past century. Using quantitative cross-national data, it shows the impact of this scientized world polity on national societies. It examines

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how this world scientific system and national reflections of it have influenced a wide variety of institutional spheres--the economy, political systems, human rights,

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environmentalism, and organizational reforms. The authors argue that the triumph of science across social domains and around the world is due to its institutionalized cultural

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authority rather than to its instrumental utility for societies or for their dominant elites. Thus, following the Stanford approach to institutional theory in sociology, the book

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emphasizes the symbolic or religious role science plays in the modern world.

The True Story of How Western Europe's Poorest Nation Created Our World and Ever ything in It

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Superstition

Science and the Modern
World

Getting Under Our Skin

Stress in the Modern World

Classics in the Modern World

Science and Magic in the

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Modern World is a unique text that explores the role of magical thinking in everyday life. It provides an excellent psychological look at the subconscious belief in magic in both popular culture and society,

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as well as experimental research that considers human consciousness as a derivative of belief in the supernatural, thus showing that our feelings, emotions, attitudes and other psychological processes

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follow the laws of magic. This book synthesises the science of 'natural' phenomena and the magic of the 'supernatural' to present an interesting look at the juxtaposition of the inner and outer selves.

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Fusing research into psychological disorders, subconscious feelings, as well as the rising presence of artificial intelligence, this book demonstrates how an engagement with magical thinking can enhance one's

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creativity and cognitive skills. Science and Magic in the Modern World is an invaluable resource for those studying consciousness, as well as those looking at the effect of magical thinking on

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religion, politics, science and society.

A re-evaluation of Genghis Khan's rise to power examines the reforms the conqueror instituted throughout his empire and his uniting of East and

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West, which set the foundation for the nation-states and economic systems of the modern era.

How much further should the affluent world push its material consumption? Does relative dematerialization

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lead to absolute decline in demand for materials? These and many other questions are discussed and answered in Making the Modern World: Materials and Dematerialization. Over the course of time, the modern

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world has become dependent on unprecedented flows of materials. Now even the most efficient production processes and the highest practical rates of recycling may not be enough to result in dematerialization rates

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that would be high enough to negate the rising demand for materials generated by continuing population growth and rising standards of living. This book explores the costs of this dependence and the potential for

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substantial dematerialization of modern economies. Making the Modern World: Materials and Dematerialization considers the principal materials used throughout history, from wood and stone, through to

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metals, alloys, plastics and silicon, describing their extraction and production. Classics in the Modern World explores the features and implications of a 'democratic turn' in modern perceptions of the ancient

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world. Exploring the relationship between Greek and Roman ways of thinking and modern definitions of democratic practices and approaches, it enables a wider re-evaluation of the role of classics in the

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modern world.

Climate, History and the
Modern World

The Discovery of Modern
Science

Scientific Networks in the
Early Modern World

Psychological Perspectives

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on Living with the
Supernatural
The Spinning Magnet
An Ancient Healing Path for
the Modern World
**Science and the Modern
World** Simon and Schuster

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Physical Science in the Modern World surveys the whole range of the non-biological sciences. This book explores the significant ideas and concepts in chemistry, physics, astronomy, geology, and meteorology with emphasis on

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how these sciences bear strongly upon one another and how the basic principles are applied to each. Organized into three part encompassing 29 chapters, this book starts with an overview of the fundamental building blocks

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of matter and explains how they are assembled to form molecules, rocks, minerals, and the Earth. This text then examines the basic concepts of physical science by exploring the fundamental principles that govern all physical

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processes and we see how they relate to various everyday occurrences. Other chapters consider how modern chemistry affects the world we live in and explain how the development of semiconductor materials has led

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in the development of miniature electronics. This book is a valuable resource for physicists, chemists, astronomers, geologists, and meteorologists.

When Lefebvre's book first appeared in the 1960s it was

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considered a manifesto for a social movement that focused on the quality of life experienced by the individual--by the common man and woman. His emphasis on the quality of life will have even more appeal to those currently living

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with the problems of inflation, unem-ployment, and dwindling natural re-sources. Basing his discussions on everyday life in France, Lefebvre shows the degree to which our lived-in world and our sense of it are shaped by

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decisions about which we know little and in which we do not participate. He evaluates the achievements and shortcomings of applying various philosophical perspectives such as Marxism and Structuralism to daily life, studies

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the impact of con-sumerism on society, and looks at ef-fects on society of linguistic phenom-ena and various kinds of terrorism communicated through mass media. In his new introduction to this edi-tion, Philip Wander

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evaluates Lefebvre's ideas by relating many of them to current contexts. He discusses the political and economic aspects of daily life in the 1980s, the work environment, communications, and the world of science and

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technology.

This book tells the story of how the very idea of two cultures-the so-called divorce between science and the humanities-was a creation of the modern world-system. The contributors, working from a

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common research framework, trace the divorce of "facts" and "values" as part of the transition from feudalism to capitalism. This led to a polarization between universalist "science" and the particularist "humanities" and

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finally to the creation of the social sciences as an uneasy intermediary in this epistemological debate. The book addresses the contemporary attempts to overcome the division between the two cultures that

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emerge from science, feminism, race and ethnic studies, cultural studies, and ecology, ending with an analysis of the culture wars and the science wars.

Contributors: Volkan Aytar, Ay,se Betul Celik, Mauro Di

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**Meglio, Mark Frezzo, Ho-fung
Hung, Biray Kolloupglu
K3/4rl3/4, Agustin Lao- Montes,
Eric Mielants, Boris Stremlin,
Sunaryo, Norihisa Yamashita,
Deniz Yukeseker.
Making the Modern World:**

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**Materials and Dematerialization
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Four Civilizations, One 17th-
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When Einstein Met Tagore
Religion, Magic, and Science in**

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the Modern World

In 2010, Nick Polizzi did something unimaginable. He assembled a group of eight desperately ill patients from around the world and brought them into the heart of the Amazon rainforest to

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put the mysterious medicines of native shamans to the test. The healing journey that unfolded would change their lives—and his own—forever. In The Sacred Science, we join Nick as he explores these primordial

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traditions and learns firsthand what it takes to truly heal ourselves of physical disease, emotional trauma, and the sense of "lostness" that so many of us feel in these modern times. We venture into a

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place where the ordinary rules we live by, even survival instincts, don't apply—where “the only thing to do is to step forward and be ready for anything.” Nick is not a guru or shaman; he is an ordinary guy who

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pieced together an illuminating journey, one experience at a time. In this riveting true story, we're shown the many layers that must be peeled away in order for us to find the truth of who we are and why

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we're here. This book is a bridge between the flashy, fast-moving modern world and the forgotten ways of a healthier, earth-connected ancestral past. You'll find practices and principles of native wisdom that you can

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put to use in your own life, and you'll gain a new understanding of what it means to heal. In the end, what will become of the eight patients who set out on this path with Nick? Will the exotic jungle medicines

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and harrowing rites of passage destroy them or give them a new lease on life? Five will return with remarkable healing results. Two will return disappointed. One won't return at all.

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Physics in the Modern World, Second Edition focuses on the applications of physics in a world dominated by technology and the many ways that physical ideas are manifest in everyday situations, from the

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operation of rockets and cameras to space travel and X-ray photography. It shows how physical principles bring a pattern of simplicity and continuity to the diverse natural and technological world around

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us. Automobile air bags, artificial gravity, and pollution control, as well as appliance economics, radar, and other modern phenomena and devices are discussed to emphasize the way that physical principles

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are applied in today's world. Comprised of 21 chapters, this book begins with an introduction to physical ideas, with particular reference to the basic concepts used in describing and measuring

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things such as length, time, and mass. The discussion then turns to motion, force, and linear momentum, along with circular motion, torque, and angular momentum. Subsequent chapters focus on

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gravitation and space travel; energy and electricity; liquids and gases; electromagnetism; heat; waves; electromagnetic radiation; light; atoms; relativity; structure of matter; nuclei and nuclear

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power; and radiation. Each chapter concludes with a list of exercises that include questions and problems. This monograph is intended for physics students who are specializing in other

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disciplines.

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Science and Magic in the

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The Sacred Science

Science in Action

*Lucretius' On the Nature of
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of Latin literature -*

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provides a vivid poetic exposition of the doctrines of the Greek atomist, Epicurus. The poem played a crucial role in the reinvention of science in the seventeenth century, its influence on the French

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Enlightenment was powerful and pervasive, and it became a major battlefield in the wars of religion with science in nineteenth-century England. But in the twentieth century, despite its vital contributions to

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modern thought and civilisation, it has been largely neglected by common readers and scientists alike. This book offers an extensive description of the poem, with special emphasis on its cheerful version of

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materialism and on its attempt to devise an ethical system that suits such a universe. It surveys major relevant texts form the eighteenth and nineteenth centuries (Dryden, Diderot, Voltaire, Tennyson,

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Santayana) and speculates on why Lucretius and the ancient scientific tradition he championed has become marginalised in the twentieth century. It closes with a discussion of what value the poem has for

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students of science and technology in the new century: what advice it has to offer us about how to go about reinventing our machines and our morality. Traces the development of science, looks at its impact

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