

HAVING INSANE RELATIVES ON BOTH SIDES.

HAVING IN

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Princeton History & Philosophy of Science

EMALES.

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FATHERS.

MOTHERS.

GRANDFATHERS.

GRANDMOTHERS.

UNCLES.

AUNTS.

MALES

FEMALES

INSANE GRANDFATHERS ON FATHERS SIDE

" " MOTHERS "

INSANE GRANDMOTHERS ON FATHERS SIDE

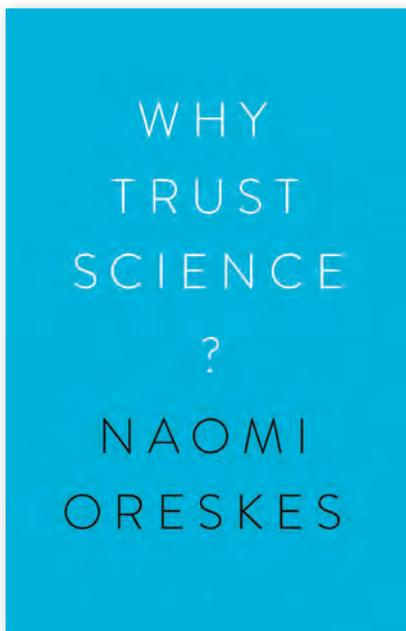
" " MOTHERS "

INSANE UNCLES ON FATHERS SIDE

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INSANE AUNTS ON FATHERS SIDE





October 2019. 352 pages. 2 b/w illus. 1 table.
Hardback 9780691179001 \$24.95 | £20.00
E-book 9780691189932 Audiobook 9780691199139
The University Center for Human Values Series

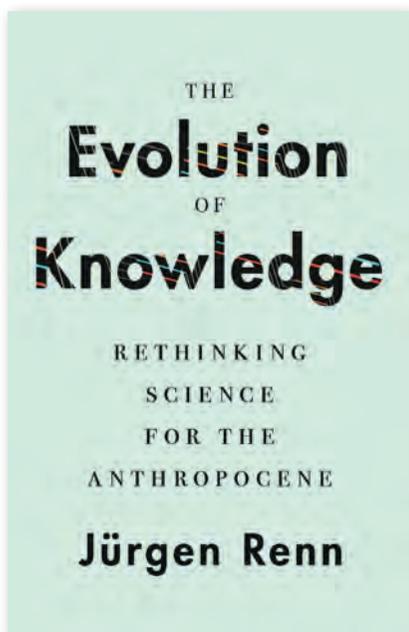
“An insightful, lucid, and accessible discussion of a highly complex issue of great urgency and importance.”
—Karim Bschor, ETH Zürich

Why Trust Science?

Do doctors really know what they are talking about when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global warming? Why should we trust science when our own politicians don't? In this landmark book, 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.

This timely and provocative book features 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.

NAOMI ORESKES is professor of the history of science and affiliated professor of Earth and planetary sciences at Harvard University.



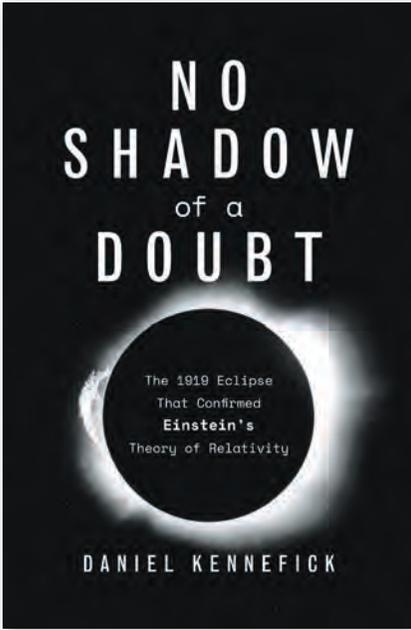
January 2020. 600 pages. 105 b/w illus.
Hardback 9780691171982 \$35.00 | £27.00
E-book 9780691185675

“In this exceptional book, Renn provides a general and penetrating in-depth view of the evolution of human knowledge from its roots in simple daily practices to the most abstract scientific theories, offering a breakthrough in the way the history of science is understood.”
—Rivka Feldhay, author of *Galileo and the Church*

The Evolution of Knowledge

This book presents a new way of thinking about the history of science and technology, one that offers a grand narrative of human history in which knowledge serves as a critical factor of cultural evolution. Jürgen Renn examines the role of knowledge in global transformations going back to the dawn of civilization while providing vital perspectives on the complex challenges confronting us today in the Anthropocene—this new geological epoch shaped by humankind.

JÜRGEN RENN is a director at the Max Planck Institute for the History of Science in Berlin, where, together with his group, he researches structural changes in systems of knowledge.



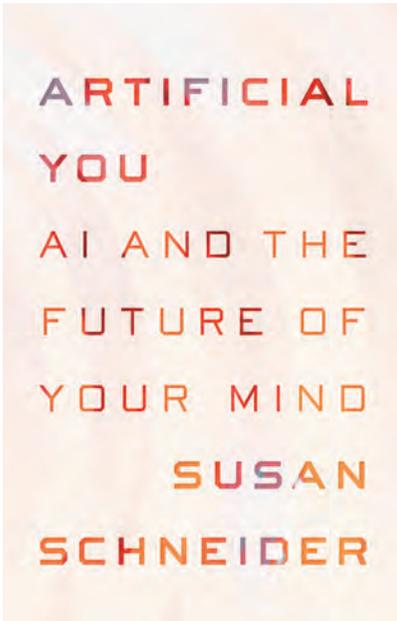
2019. 416 pages. 25 b/w illus.
Hardback 9780691183862 \$29.95 | £24.00
E-book 9780691190051

“Full of revealing discoveries, this delightful and engaging book is indispensable reading.”
—Diana K. Buchwald, director of The Einstein Papers Project

No Shadow of a Doubt

In 1919, British scientists led extraordinary expeditions to Brazil and Africa to test Albert Einstein’s revolutionary new theory of general relativity in what became the century’s most celebrated scientific experiment. Today, Einstein’s theory is scientific fact. Yet the effort to “weigh light” by measuring the gravitational deflection of starlight during the May 29, 1919 solar eclipse has become clouded by myth and skepticism. In *No Shadow of a Doubt*, Daniel Kennefick provides definitive answers by offering the most comprehensive and authoritative account of how expedition scientists overcame war, bad weather, and equipment problems to make the experiment a triumphant success.

DANIEL KENNEFICK is associate professor of physics at the University of Arkansas, Fayetteville.



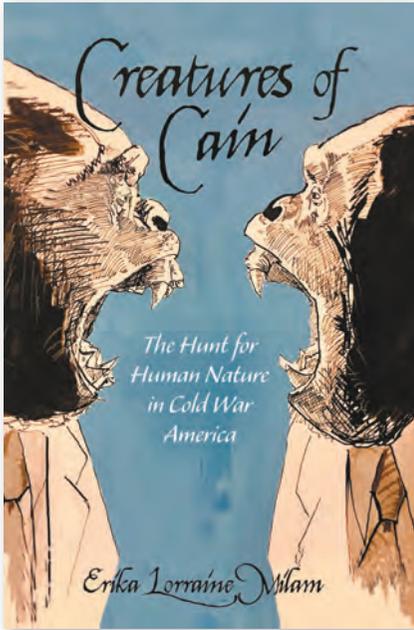
October 2019. 200 pages. 10 b/w illus.
Hardback 9780691180144 \$24.95 | £20.00
E-book 9780691197777 Audiobook 9780691199092

“This riveting book is both entertaining and profound: it offers a humane perspective on AI... Classic philosophical problems of the self, the mind, and consciousness will soon—through transformative advances in AI—become crucial to practical ethics and individual choices. Schneider offers sophisticated insights on what is perhaps the number one long-term challenge confronting humanity.”
—Martin Rees, author of *On the Future*

Artificial You

Humans may not be Earth’s most intelligent species for much longer. Given the rapid pace of progress in AI, many predict that it could advance to human-level intelligence within the next several decades. From there, it could quickly outpace human intelligence. What do these developments mean for the future of the mind? In *Artificial You*, Susan Schneider says that it is inevitable that AI will take intelligence in new directions, but urges that it is up to us to carve out a sensible path forward.

SUSAN SCHNEIDER is the Distinguished Scholar at the Library of Congress and the director of the AI, Mind and Society Group at the University of Connecticut.



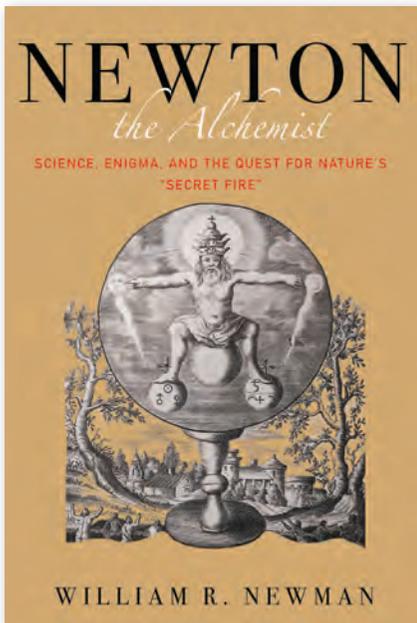
2019. 408 pages. 33 b/w illus.
Hardback 9780691181882 \$29.95 | £24.00
E-book 9780691185095

“Erika Lorraine Milam’s magisterial account of the sciences of human nature in Cold War America weaves together ideas and politics, vivid personalities and scientific evidence, mass-media hype and arduous fieldwork, educational reform and daring movies, all against the background of the tumultuous decades between Sputnik and Watergate. It is a very human story about trying to understand what it means to be human. It is also a whopping good read.”
—Lorraine Daston, director, Max Planck Institute for the History of Science

Creatures of Cain

After World War II, the question of how to define a universal human nature took on new urgency. *Creatures of Cain* charts the rise and precipitous fall in Cold War America of a theory that attributed man’s evolutionary success to his unique capacity for murder.

ERIKA LORRAINE MILAM is professor of history at Princeton University.



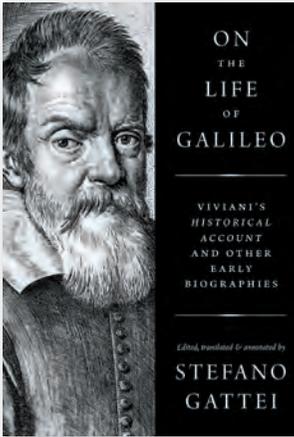
2018. 560 pages. 40 b/w + 10 color illus.
Hardback 9780691174877 \$39.95 | £30.00
E-book 9780691185033

“*Newton the Alchemist* is a tour de force proving beyond any doubt Newton’s extraordinary debt to ‘chymistry,’ the alchemical art of analysis and synthesis. A magnificent achievement, this book stands as the definitive treatment of Newton on alchemy.”
—Jed Z. Buchwald, coauthor of *Newton and the Origin of Civilization*

Newton the Alchemist

When Isaac Newton’s alchemical papers surfaced at a Sotheby’s auction in 1936, the quantity and seeming incoherence of the manuscripts were shocking. No longer the exemplar of Enlightenment rationality, the legendary physicist suddenly became “the last of the magicians.” *Newton the Alchemist* unlocks the secrets of Newton’s alchemical quest, providing a radically new understanding of the uncommon genius who probed nature at its deepest levels in pursuit of empirical knowledge.

WILLIAM R. NEWMAN is Distinguished Professor and Ruth N. Halls Professor in the Department of History and Philosophy of Science and Medicine at Indiana University.



“This book is a superb and lasting contribution to our knowledge of Galileo Galilei.”—Eileen Reeves, author of *Evening News: Optics, Astronomy, and Journalism in Early Modern Europe*

On the Life of Galileo

This unique critical edition presents key early biographical accounts of the life and work of Galileo Galilei (1564–1642), written by his close contemporaries. Collected and translated into English for the first time and supplemented by an introduction and incisive annotations, these documents paint an incomparable firsthand picture of Galileo.

STEFANO GATTEI is visiting associate in history at the California Institute of Technology and Dibner Fellow at the Huntington Library.

2019. 440 pages. 40 b/w illus.
Hardback 9780691174891 \$49.95 | £40.00

E-book 9780691185743



“Feke offers a wide-ranging analysis of Ptolemy’s entire philosophy—not only his philosophy of science but also his theory of the soul.”
—James Evans, author of *The History and Practice of Ancient Astronomy*

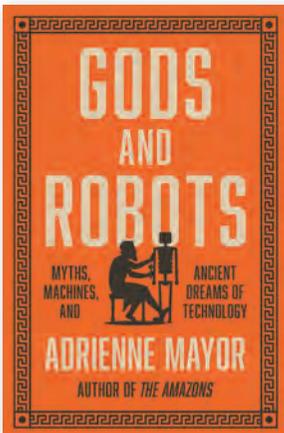
Ptolemy's Philosophy

The Greco-Roman mathematician Claudius Ptolemy is one of the most significant figures in the history of science. This groundbreaking book is the first to reconstruct Ptolemy’s general philosophical system—including his metaphysics, epistemology, and ethics—and to explore its relationship to astronomy, harmonics, element theory, astrology, cosmology, psychology, and theology.

JACQUELINE FEKE is assistant professor of philosophy at the University of Waterloo in Ontario.

2018. 256 pages. 8 b/w illus.
Hardback 9780691179582 \$39.50 | £30.00

E-book 9780691184036



“Vivid and exhilarating, *Gods and Robots* shows that humanity has been grappling with the idea of artificial life since the dawn of history.”—George Zarkadakis, author of *In Our Own Image*

Gods and Robots

A groundbreaking account of the earliest expressions of the timeless impulse to create artificial life, *Gods and Robots* reveals how some of today’s most advanced innovations in robotics and AI were foreshadowed in ancient myth—and how science has always been driven by imagination. This is mythology for the age of AI.

ADRIENNE MAYOR is a research scholar in classics and the history of science at Stanford University.

2018. 304 pages. 75 b/w + 11 color illus.
Hardback 9780691183510 \$29.95 | £24.00
Audiobook 9780691193021

E-book 9780691185446



2019. 568 pages. 75 b/w illus. 1 table. 4 maps.
 Paperback 9780691187082 \$39.95 | £30.00
 Hardback 9780691187075 \$120.00 | £93.00
 E-book 9780691190600

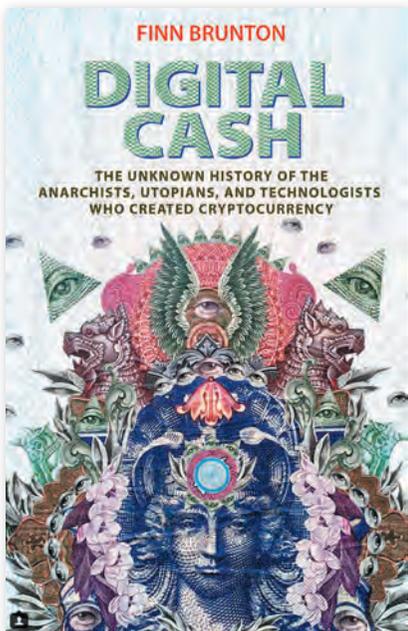
“A dazzling collection of STS writing and thinking—
 an indispensable handbook.”

—Paul N. Edwards, author of *A Vast Machine: Computer Models, Climate Data, and the Politics of Global Warming*

digitalSTS

Scholars across the humanities, social sciences, and information sciences are grappling with how best to study virtual environments, use computational tools in their research, and engage audiences with their results. Classic work in science and technology studies (STS) has played a central role in how these fields analyze digital technologies, but many of its key examples do not speak to today’s computational realities. This groundbreaking collection brings together a world-class group of contributors to refresh the canon for contemporary digital scholarship.

JANET VERTESI is assistant professor of sociology at Princeton University. **DAVID RIBES** is associate professor in the Department of Human Centered Design and Engineering and director of the Data Ecologies Lab at the University of Washington.



2019. 272 pages.
 Hardback 9780691179490 \$26.95 | £21.00
 E-book 9780691185668 Audiobook 9780691193502

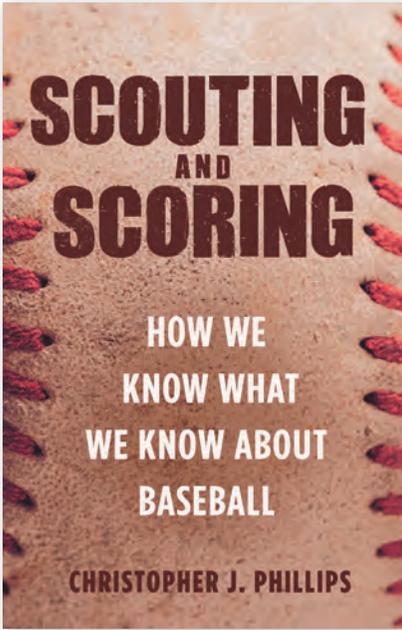
“A fascinating and important book that addresses big
 questions about cryptocurrency.”

—Nathan Ensmenger, author of *The Computer Boys Take Over*

Digital Cash

Bitcoin may appear to be a revolutionary form of digital cash without precedent or prehistory. In fact, it is only the best-known recent experiment in a long line of similar efforts going back to the 1970s. But the story behind cryptocurrencies like Bitcoin and its blockchain technology has largely been untold—until now. In *Digital Cash*, Finn Brunton reveals how technological utopians and political radicals created experimental money to bring about their visions of the future: protecting privacy or bringing down governments, preparing for apocalypse or launching a civilization of innovation and abundance that would make its creators immortal.

FINN BRUNTON is assistant professor in the Department of Media, Culture, and Communication at New York University.



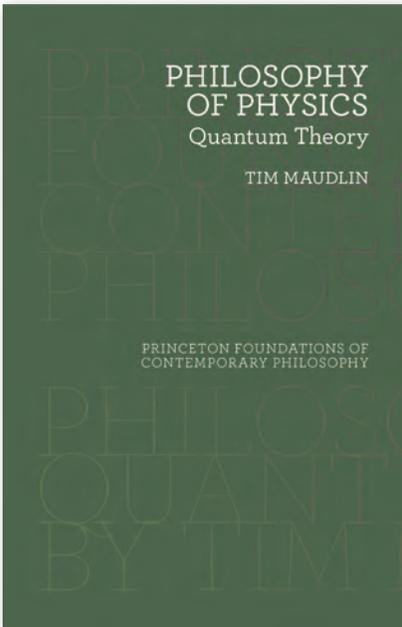
2019. 320 pages. 15 b/w illus.
Hardback 9780691180212 \$27.95 | £22.00
E-book 9780691188980

“Christopher Phillips knows that you can’t spell history without story. He goes back, back, back—from beyond the dawn of baseball’s quantification and evaluation through to today’s worship of objective data—to find where subjectivity and humanity stubbornly lurk. *Scouting and Scoring* is provocative, thorough, and brilliant.”
—John Thorn, official historian of Major League Baseball

Scouting and Scoring

Scouting and scoring are considered fundamentally different ways of ascertaining value in baseball. Scouting seems to rely on experience and intuition, scoring on performance metrics and statistics. In *Scouting and Scoring*, Christopher Phillips rejects these simplistic divisions. He shows how both scouts and scorers rely on numbers, bureaucracy, trust, and human labor in order to make sound judgments about the value of baseball players.

CHRISTOPHER J. PHILLIPS is assistant professor of history at Carnegie Mellon University.



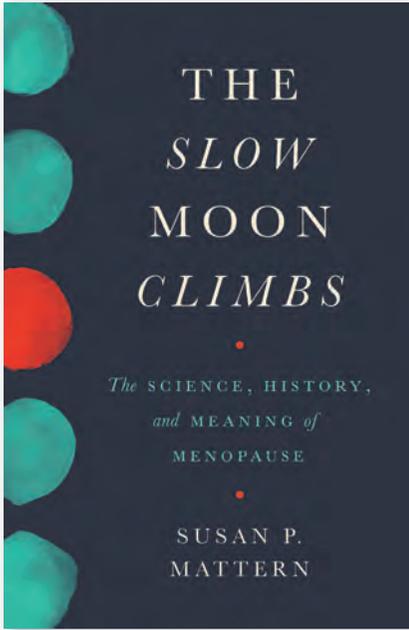
2019. 256 pages. 45 b/w illus.
Hardback 9780691183527 \$24.95 | £20.00
E-book 9780691190679
Princeton Foundations of Contemporary Philosophy

“Tim Maudlin is one of the world’s leading experts on the philosophy of physics, and he has a gift for digging deeply into foundations and explaining clearly what is there. This excellent book will be very valuable to students first encountering the philosophy of quantum mechanics. Maudlin’s strategy of introducing the subject through eight experiments is itself worth the price of admission.”
—Sean Carroll, California Institute of Technology

Philosophy of Physics

In this book, Tim Maudlin, one of the world’s leading philosophers of physics, offers a sophisticated, original introduction to the philosophy of quantum mechanics. The briefest, clearest, and most refined account of his influential approach to the subject, the book will be invaluable to all students of philosophy and physics.

TIM MAUDLIN is professor of philosophy at New York University. He is the author of *Philosophy of Physics: Space and Time* (Princeton), *Quantum Non-Locality and Relativity: Metaphysical Intimations of Modern Physics*, *The Metaphysics within Physics*, and *Truth and Paradox*.



September 2019, 464 pages, 5 b/w illus.
Hardback 9780691171630 \$29.95 | £24.00
E-book 9780691185644 Audiobook 9780691199153

“In *The Slow Moon Climbs*, Mattern dispels old myths about menopause and illuminates the evolutionary, social, and personal advantages of a long-misunderstood natural phase of life: freedom from fertility.”

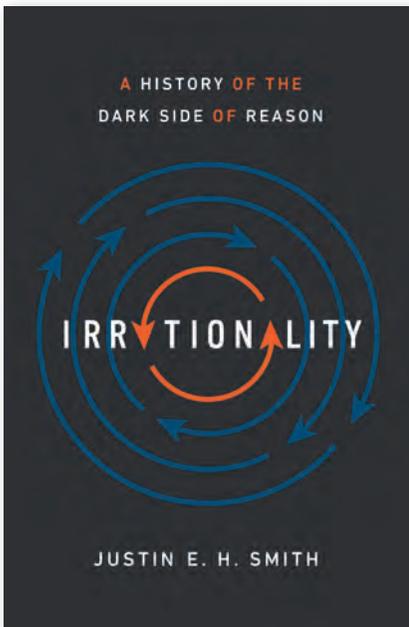
—Adrienne Mayor, author of *The Amazons*

The Slow Moon Climbs

Are the ways we look at menopause all wrong?

Historian Susan Mattern says yes, and *The Slow Moon Climbs* reveals just how wrong we have been. Taking readers from the rainforests of Paraguay to the streets of Tokyo, Mattern draws on historical, scientific, and cultural research to reveal how our perceptions of menopause developed from prehistory to today. For most of human history, people had no word for menopause and did not view it as a medical condition. Rather, in traditional foraging and agrarian societies, it was a transition to another important life stage. This book, then, introduces new ways of understanding life beyond fertility.

SUSAN P. MATTERN is Distinguished Research Professor of History at the University of Georgia.



2019, 344 pages, 1 b/w illus.
Hardback 9780691178677 \$29.95 | £24.00
E-book 9780691189666 Audiobook 9780691193472

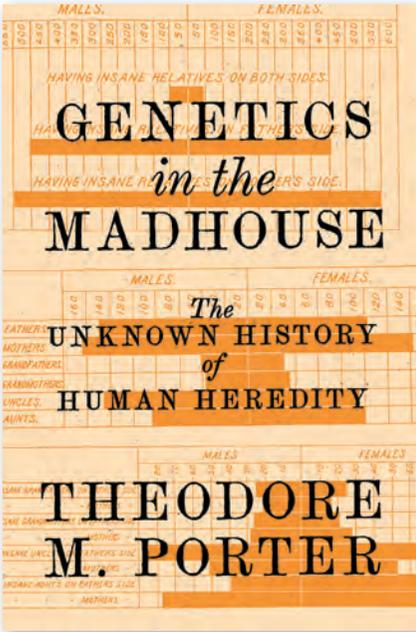
“*Irrationality* is fresh, perceptive, and enjoyable.”

—Kieran Setiya, author of *Midlife: A Philosophical Guide*

Irrationality

It’s a story we can’t stop telling ourselves. Once, humans were benighted by superstition and irrationality, but then the Greeks invented reason. Later, the Enlightenment enshrined rationality as the supreme value. Discovering that reason is the defining feature of our species, we named ourselves the “rational animal.” But is this flattering story itself rational? In this sweeping account of irrationality from antiquity to today—from the fifth-century BC murder of Hippasus for revealing the existence of irrational numbers to the rise of Twitter mobs and the election of Donald Trump—Justin Smith says the evidence suggests the opposite. From sex and music to religion and war, irrationality makes up the greater part of human life and history.

JUSTIN E. H. SMITH is professor of the history and philosophy of science at the University of Paris 7—Denis Diderot.



2018. 464 pages. 20 b/w illus.
 Hardback 9780691164540 \$35.00 | £27.00
 E-book 9781400890507

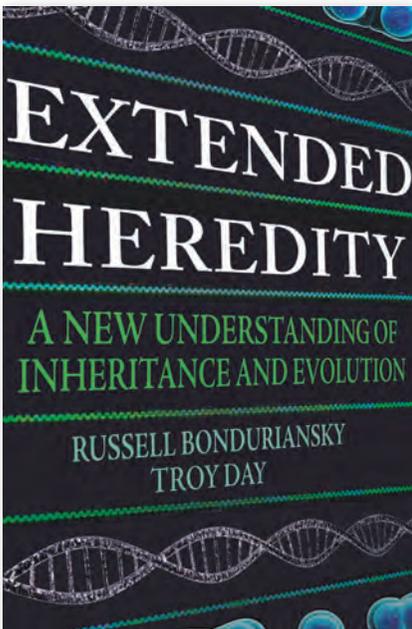
“A landmark in the history of medicine, science, and mental illness.”

—Daniel J. Kevles, author of *In the Name of Eugenics: Genetics and the Uses of Human Heredity*

Genetics in the Madhouse

In the early 1800s, a century before there was any concept of the gene, physicians in insane asylums began to record causes of madness in their admission books. Almost from the beginning, they pointed to heredity as the most important of these causes. As doctors and state officials steadily lost faith in the capacity of asylum care to stem the terrible increase of insanity, they began emphasizing the need to curb the reproduction of the insane. They became obsessed with identifying weak or tainted families. *Genetics in the Madhouse* is the untold story of how the collection and sorting of hereditary data in mental hospitals, schools for “feeble-minded” children, and prisons gave rise to a new science of human heredity.

THEODORE M. PORTER is Distinguished Professor of History and holds the Peter Reill Chair at the University of California, Los Angeles.



2018. 280 pages. 40 b/w illus.
 Hardback 9780691157672 \$29.95 | £24.00
 E-book 9781400890156

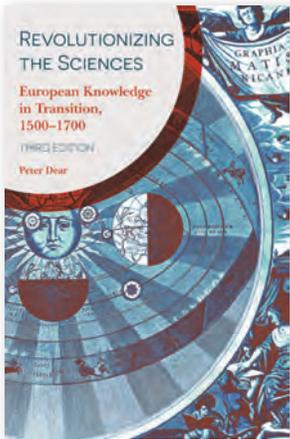
“A work of great clarity. Bonduriansky and Day provide an absorbing account of evolution in which a menagerie of *epigenetic* forces joins our genes as the drivers of who we are and what we are like.”

—Mark Pagel, author of *Wired for Culture*

Extended Heredity

For much of the twentieth century it was assumed that genes alone mediate the transmission of biological information across generations and provide the raw material for natural selection. In *Extended Heredity*, leading evolutionary biologists Russell Bonduriansky and Troy Day challenge this premise. Drawing on the latest research, they demonstrate that what happens during our lifetimes—and even our grandparents’ and great-grandparents’ lifetimes—can influence the features of our descendants.

RUSSELL BONDURIANSKY is professor of evolutionary biology at the University of New South Wales in Australia. **TROY DAY** is a professor in the Department of Mathematics and Statistics and the Department of Biology at Queen’s University in Canada.



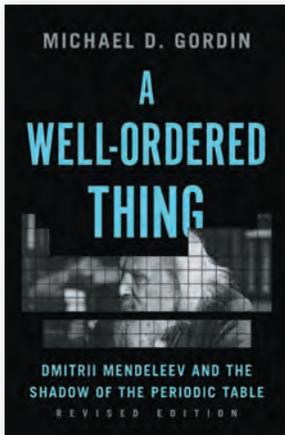
“Succinct, well-organized, and clearly written, this is an excellent account of the intellectual transformation of our understanding of the natural world.”—Paula Findlen, Stanford University

Revolutionizing the Sciences

This thoroughly revised third edition of an award-winning book offers a keen insight into how the Scientific Revolution happened and why. Reflecting on the origins of scientific practice in early modern Europe, Peter Dear traces the revolution in thought that changed the natural world from something to be contemplated into something to be used.

PETER DEAR is professor of history and science and technology studies at Cornell University.

2019. 232 pages. 30 b/w illus.
Paperback 9780691194349 \$27.95 | £22.00
For sale only in the United States and Canada



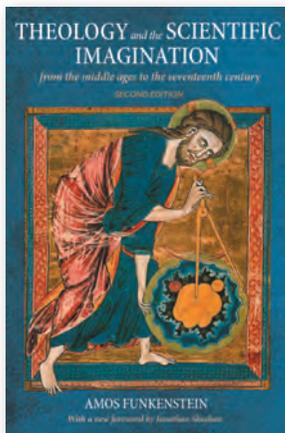
“Engaging.... [T]he most comprehensive biography in English about Mendeleev.”—Ursula Klein, *Physics Today*

A Well-Ordered Thing

Dmitrii Mendeleev (1834–1907) is a name we recognize, but perhaps only as the creator of the periodic table of elements. Generally, little else has been known about him. *A Well-Ordered Thing* is an authoritative biography of Mendeleev that draws a multifaceted portrait of his life for the first time.

MICHAEL D. GORDIN is Rosengarten Professor of Modern and Contemporary History at Princeton University, where he also serves as the Director of the Society of Fellows in the Liberal Arts.

2018. 384 pages. 19 b/w illus.
Paperback 9780691172385 \$32.95 | £26.00 E-book 9780691184425



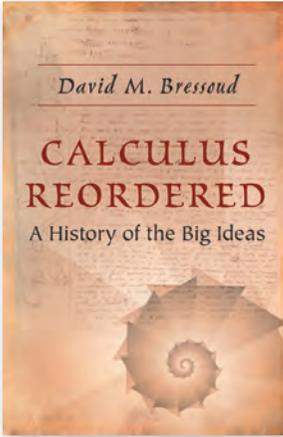
“*Theology and the Scientific Imagination* should be read by every historian of science.”—Michael Heller, *Review of Metaphysics*

Theology and the Scientific Imagination

Theology and the Scientific Imagination is a pioneering work of intellectual history that transformed our understanding of the relationship between Christian theology and the development of science.

AMOS FUNKENSTEIN (1937–95) was the Koret Professor of Jewish History and University Professor at the University of California, Berkeley, and the Mazer Chair in the History and Philosophy of Science at Tel Aviv University. **JONATHAN SHEEHAN** is professor of history and director of the Berkeley Center for the Study of Religion at the University of California, Berkeley.

2018. 464 pages.
Paperback 9780691181356 \$45.00 | £35.00 E-book 9780691184265



“Our regard for the ‘greats’ isn’t diminished when we see how the development of calculus is, in fact, a collective creation of all humanity, reflecting the awesome power we have when we share and pass on ideas for others to build on.”

—Keith Devlin, author of *The Man of Numbers* and *Finding Fibonacci*

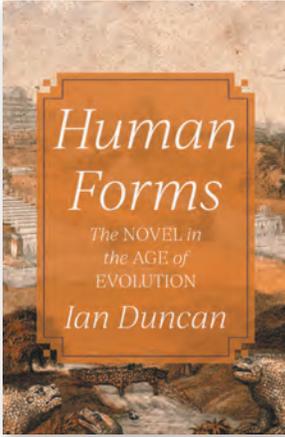
Calculus Reordered

Calculus Reordered takes readers on a remarkable journey through hundreds of years to tell the story of how calculus evolved into the subject we know today.

DAVID M. BRESSOUD is DeWitt Wallace Professor of Mathematics at Macalester College and Director of the Conference Board of the Mathematical Sciences.

2019. 242 pages. 74 b/w illus. 1 table.
Hardback 9780691181318 \$29.95 | £24.00

E-book 9780691189161



“*Human Forms* is a virtuoso performance on how, over the course of a century, two very different ways of thinking about the gap between the history of man as an individual and the history of the human species transformed each other. Beautifully written and impeccably researched.”—Nancy Armstrong, Duke University

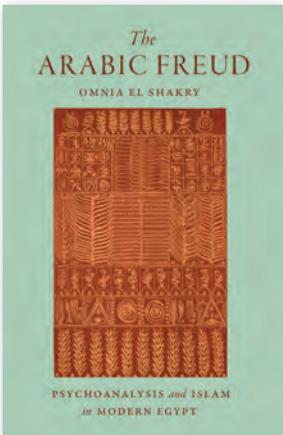
Human Forms

The first book to explore the interaction of European fiction with “the natural history of man” from the late Enlightenment through the mid-Victorian era, *Human Forms* sets a new standard for work on natural history and the novel.

IAN DUNCAN is professor and Florence Green Bixby Chair in English at the University of California, Berkeley.

September 2019. 304 pages.
Hardback 9780691175072 \$35.00 | £27.00

E-book 9780691194189



“*Arabic Freud* is a valuable contribution to the history of modern Egypt, Arab intellectual thought, and the global history of ideas.”

—Wilson Chacko Jacob, *Journal of Arabic Literature*

The Arabic Freud

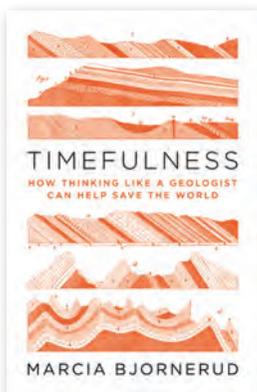
In *The Arabic Freud*, Omnia El Shakry challenges the notion of a strict divide between psychoanalysis and Islam by tracing how postwar thinkers in Egypt blended psychoanalytic theories with concepts from classical Islamic thought in a creative encounter of ethical engagement.

OMNIA EL SHAKRY is professor of history at the University of California, Davis.

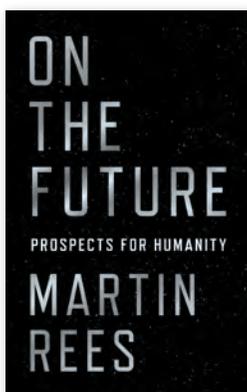
2017. 224 pages.
Hardback 9780691174792 \$35.00 | £27.00

E-book 9781400888030

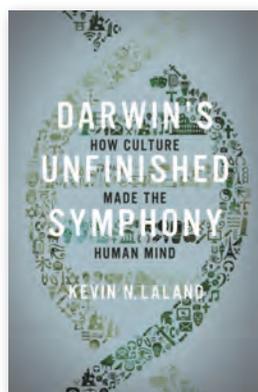
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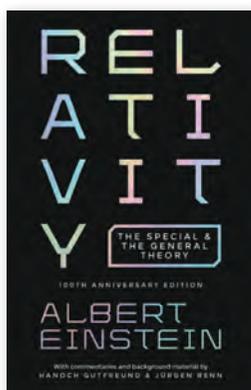
Timefulness
 Marcia Bjornerud
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 E-book 9780691184531



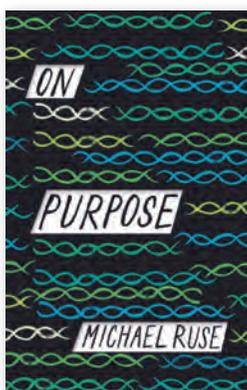
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 Martin Rees
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 Audiobook 9780691192994



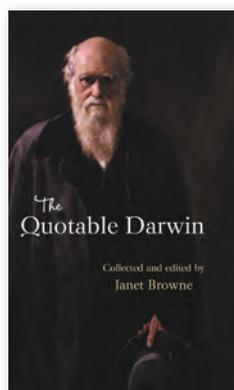
Darwin's Unfinished Symphony
 Kevin N. Laland
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 E-book 9780691184470, 9781400884872



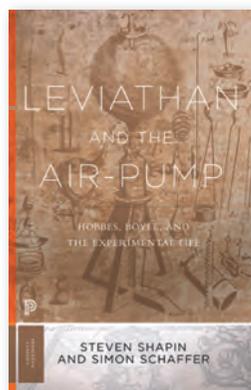
Relativity
 Albert Einstein
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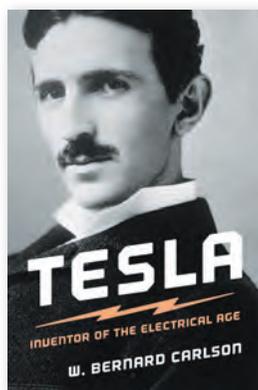
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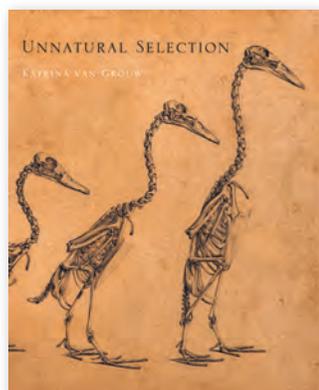
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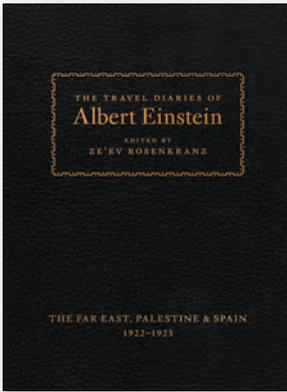
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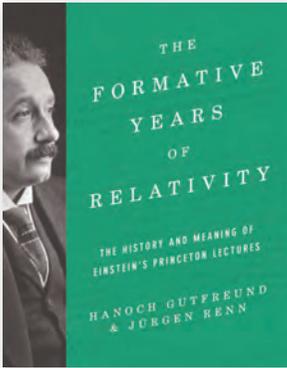
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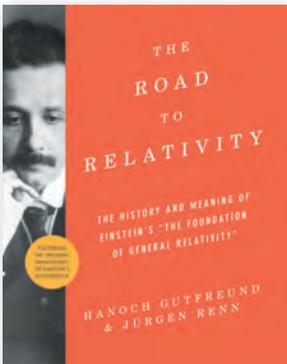
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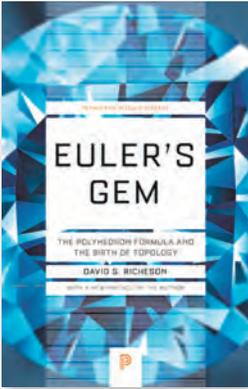
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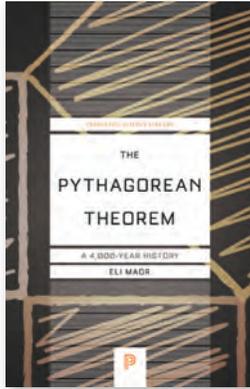
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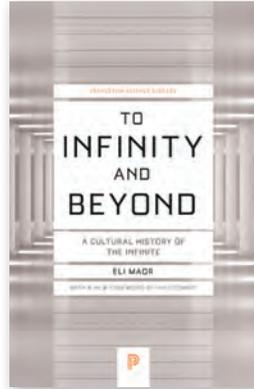
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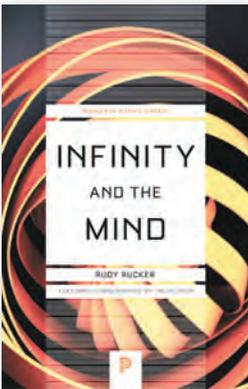
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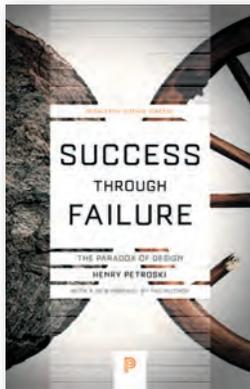
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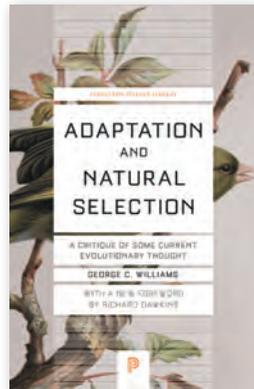
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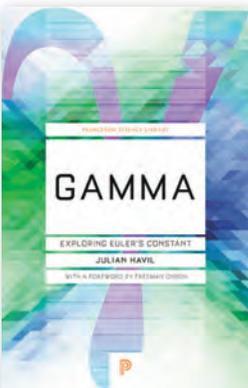
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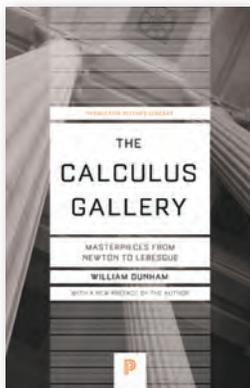
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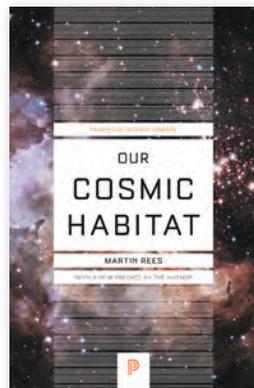
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