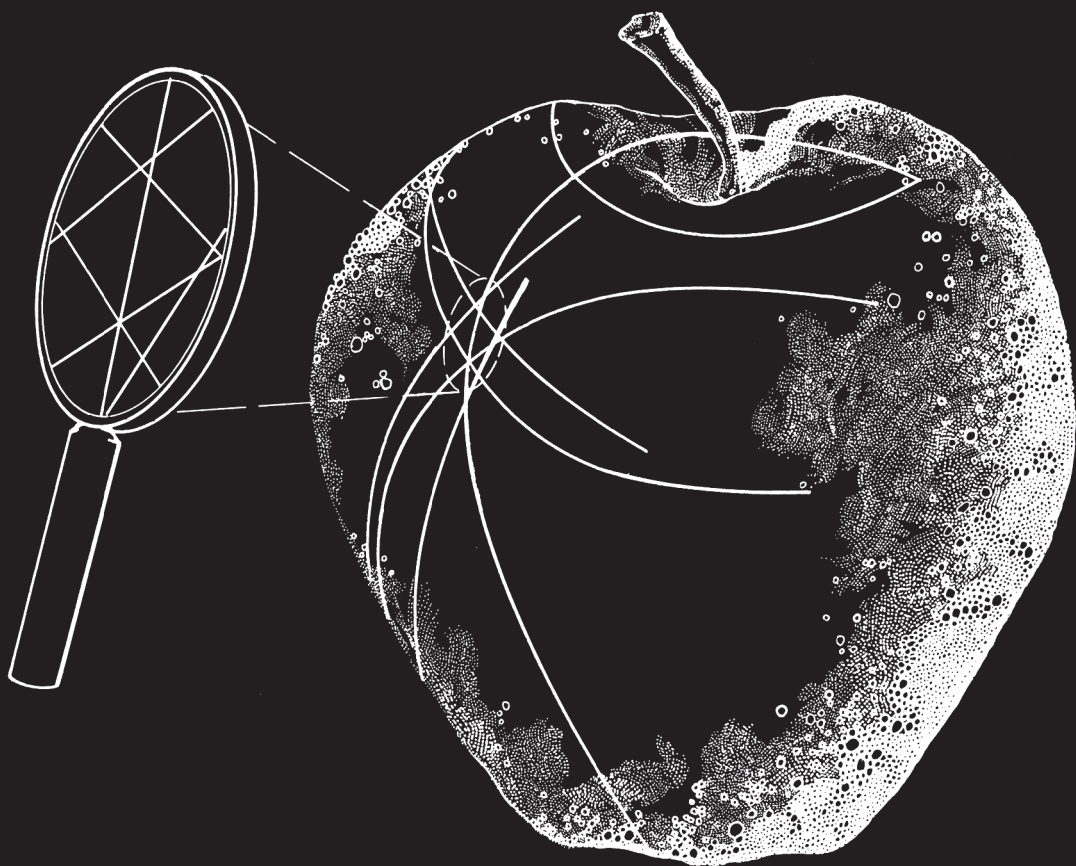


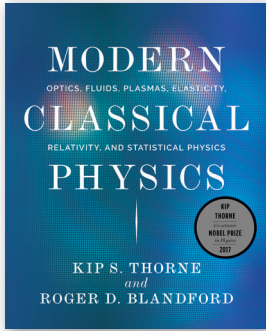
Physics & Astrophysics 2018



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Kip S. Thorne, Co-Winner of the 2017 Nobel Prize in Physics



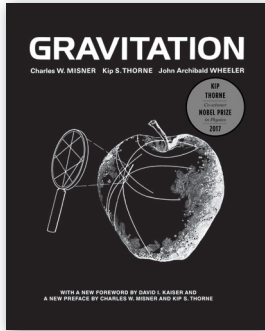
New
Modern Classical Physics
Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical Physics

Kip S. Thorne
& Roger D. Blandford

“Comprehensive, concise, and coherent, this is a marvelous summary of the essence of classical physics . . . and an essential part of any physicist’s toolkit.”
—David Stevenson, Caltech

This first-year, graduate-level text and reference book covers the fundamental concepts and twenty-first-century applications of six major areas of classical physics that every masters- or PhD-level physicist should be exposed to, but often isn’t: statistical physics, optics (waves of all sorts), elastodynamics, fluid mechanics, plasma physics, and special and general relativity and cosmology. Its six main topical sections are also designed so they can be used in separate courses, and the book provides an invaluable reference for researchers.

2017. 1552 pages. 15 tables. 325 line illus.
24 color illus. 6 halftones.
Cl: 978-0-691-15902-7 \$125.00 | £104.95



New
Gravitation

Charles W. Misner, Kip S. Thorne
& John Archibald Wheeler
With a new foreword by David I. Kaiser and a new preface by Charles W. Misner & Kip S. Thorne

“*Gravitation* is a classic.”
—David Spergel, Princeton University

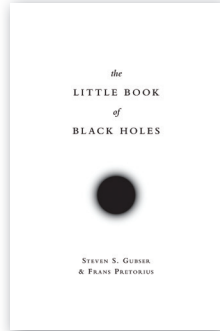
First published in 1973, *Gravitation* is a landmark graduate-level textbook that presents Einstein’s general theory of relativity and offers a rigorous, full-year course on the physics of gravitation. This authoritative text has shaped the research of generations of physicists and astronomers, and the book continues to influence the way experts think about the subject.

2017. 1280 pages. 22 halftones. 277 line illus.
Cl: 978-0-691-17779-3 \$60.00 | £49.95

Problem Book in Relativity and Gravitation

Alan P. Lightman, William H. Press, Richard H. Price & Saul A. Teukolsky

See page 10 for details.



New
The Little Book of Black Holes

Steven S. Gubser
& Frans Pretorius

“Provides an elegantly brief introduction to the basic properties of black holes and their occurrence in the universe. I warmly recommend it to the general reader.”
—Roger Penrose, author of *Fashion, Faith, and Fantasy in the New Physics of the Universe*

Black holes, predicted by Albert Einstein’s general theory of relativity more than a century ago, have long intrigued scientists and the public with their bizarre and fantastical properties. The physics governing how they behave and affect their surroundings is stranger and more mind-bending than any fiction. *The Little Book of Black Holes* takes readers deep into the mysterious heart of the subject, offering rare clarity of insight into the physics that makes black holes simple yet destructive manifestations of geometric destiny.

Science Essentials
John Dowling, Series Editor

2017. 200 pages. 29 line illus.
Cl: 978-0-691-16372-7 \$19.95 | £14.95

catalog cover illustration by Kenneth Gwin



Forthcoming
On Gravity
A Brief Tour of a Weighty Subject

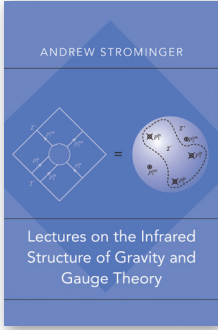
A. Zee

“This engaging and enjoyable book focuses on our modern understanding of gravity through general relativity. With an entertaining narrative, Zee examines the development of these concepts and how they mesh with other discoveries in physics. *On Gravity* makes for compelling reading.”

—Pedro Ferreira, author of *The Perfect Theory*

Of the four fundamental forces of nature, gravity might be the least understood and yet the one with which we are most intimate. From the months each of us spent suspended in the womb anticipating birth to the moments when we wait for sleep to transport us to other realities, we are always aware of gravity. In *On Gravity*, physicist A. Zee combines profound depth with incisive accessibility to take us on a tour of Einstein’s general theory of relativity. Concise and precise, and infused with Zee’s signature freshness of style, *On Gravity* opens a unique pathway to comprehending relativity and gaining deep insight into gravity.

April 2018. 192 pages. 26 b/w illus.
Cl: 978-0-691-17438-9 \$19.95 | £14.95
Not for sale in China, Taiwan, Singapore, and Hong Kong



Forthcoming
Lectures on the Infrared Structure of Gravity and Gauge Theory

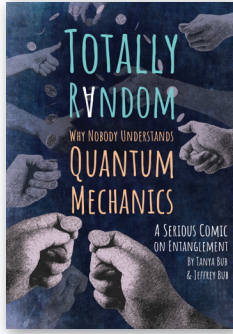
Andrew Strominger

“In the 1950s, Feynman and others brilliantly solved the ultraviolet problems in electromagnetics by renormalization, but the infrared properties of gauge theory were felt to be trivial and were neglected. However, Strominger’s book shows that they are a rich field that may well hold the resolution of the black hole information paradox.”

—Stephen Hawking, University of Cambridge and author of *A Brief History of Time*

Based on a popular Harvard University course taught by the author, this book gives a concise introduction to recent discoveries concerning the structure of gravity and gauge theory at very long distances. Uniquely connective and cutting-edge, *Lectures on the Infrared Structure of Gravity and Gauge Theory* takes students and scholars to the forefront of new developments in the discipline. Topics include soft theorems, the memory effect, asymptotic symmetries with applications to QED, Yang-Mills theory, quantum gravity, and black holes

March 2018. 184 pages. 25 color illus.
Pa: 978-0-691-17973-5 \$49.95 | £41.95
Cl: 978-0-691-17950-6 \$125.00 | £104.95



Forthcoming
Totally Random
Why Nobody Understands Quantum Mechanics (A Serious Comic of Entanglement)

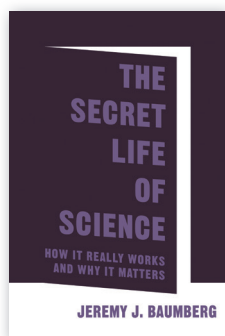
Tanya Bub & Jeffrey Bub

“What a delight! *Totally Random* explores some of the strangest features of quantum theory—and introduces some of the most important new devices that exploit quantum weirdness—in a way that is accessible, smart, and funny. An entanglement page-turner!”

—David Kaiser, author of *How the Hippies Saved Physics*

Totally Random is a comic for the serious reader who wants to really understand the central mystery of quantum mechanics—entanglement: what it is, what it means, and what you can do with it. This is a graphic experiential narrative that unpacks the deep and insidious significance of the curious correlation between entangled particles to deliver a gut-feel glimpse of a world that is not what it seems. A fresh and subversive look at our quantum world with some seriously funny stuff, *Totally Random* delivers a real understanding of entanglement that will completely change the way you think about the nature of physical reality.

June 2018. 260 pages. 250 b/w illus.
Pa: 978-0-691-17695-6 \$22.95 | £18.95



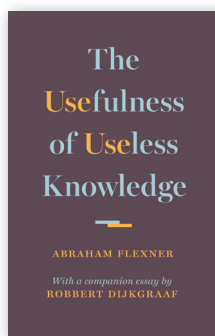
Forthcoming
The Secret Life of Science
How It Really Works and Why It Matters
 Jeremy J. Baumberg

“A uniquely original analysis of how the global scientific research ecosystem works. [Baumberg] accurately describes how the publish-or-perish climate of research is just one of the many competitive challenges facing academic scientists on the long road to tenure.”

—Tony Hey, Chief Data Scientist, Rutherford Appleton Laboratory, Science and Technology Facilities Council

We take the advance of science as given. But is the scientific enterprise truly as healthy as we tend to think? How does the system itself shape what scientists do? *The Secret Life of Science* takes a clear-eyed and provocative look at the current state of global science, shedding light on a cutthroat and tightly tensioned enterprise that even scientists themselves often don't fully understand. *The Secret Life of Science* explains why this hypercompetitive environment is stifling the diversity of research and the resiliency of science itself, and why new ideas are needed to ensure that the scientific enterprise remains healthy and vibrant.

May 2018. 256 pages. 41 b/w illus.
 Cl: 978-0-691-17435-8 \$29.95 | £24.95

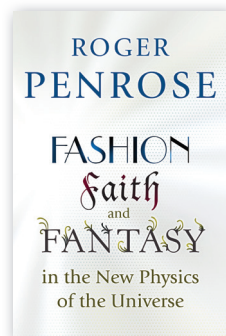


New
Usefulness of Useless Knowledge
 Abraham Flexner
With a companion essay by Robert Dijkgraaf

“These two eloquent essays are timely and timeless treasures.”
 —Sean B. Carroll, author of *The Serengeti Rules* and *Brave Genius*

In his classic essay “The Usefulness of Useless Knowledge,” Abraham Flexner, the founding director of the Institute for Advanced Study in Princeton and the man who helped bring Albert Einstein to the United States, describes a great paradox of scientific research. The search for answers to deep questions, motivated solely by curiosity, often leads not only to the greatest scientific discoveries but also to the most revolutionary technological breakthroughs. In short, no quantum mechanics, no computer chips. This brief book also includes Flexner's timeless 1939 essay alongside a new companion essay by Robbert Dijkgraaf, the Institute's current director, in which he shows that Flexner's defense of the value of “the unobstructed pursuit of useless knowledge” may be even more relevant today than it was in the early twentieth century.

2017. 104 pages.
 Cl: 978-0-691-17476-1 \$9.95 | £8.95



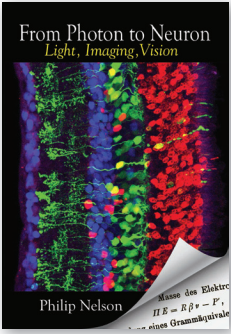
New in Paperback
Fashion, Faith, and Fantasy in the New Physics of the Universe
 Roger Penrose

“An extremely original, rich, and thoughtful survey of today's most fashionable attempts to decipher the cosmos on its smallest and largest scales.”

—*Science*

What can fashionable ideas, blind faith, or pure fantasy possibly have to do with the scientific quest to understand the universe? Surely, theoretical physicists are immune to mere trends, dogmatic beliefs? Acclaimed physicist and bestselling author Roger Penrose argues that researchers working at the extreme frontiers of physics are just as susceptible to these forces as anyone else. In this provocative book, he argues that fashion, faith, and fantasy, while sometimes productive and even essential in physics, may be leading today's researchers astray in three of the field's most important areas—string theory, quantum mechanics, and cosmology. The result is an important critique of some of the most significant developments in physics today.

2017. 520 pages. 186 line illus.
 Pa: 978-0-691-17853-0 \$17.95 | £14.95
 Cl: 978-0-691-11979-3 \$29.95 | £19.95
 Winner of the 2017 PROSE Award in Chemistry & Physics, Association of American Publishers



New
From Photon to Neuron
Light, Imaging, Vision
Philip Nelson

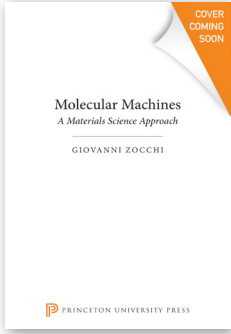
“Nelson masterfully blends the natural sciences to explore how we perceive and control light.”
—Adam Cohen, Harvard University

From Photon to Neuron provides undergraduates with an accessible introduction to the physics of light and offers a unified view of a broad range of optical and biological phenomena. Along the way, this richly illustrated textbook builds the necessary background in neuroscience, photochemistry, and other disciplines. With its integrated approach, *From Photon to Neuron* can be used as the basis for many interdisciplinary courses. The goal is always for students to gain the fluency needed to derive every result for themselves, so the book includes a wealth of exercises, including many that guide students through computer-based solutions.

2017. 512 pages. 300 color illus.
Pa: 978-0-691-17519-5 \$49.50 | £41.95
Cl: 978-0-691-17518-8 \$110.00 | £91.95

Forthcoming
A Student's Guide to Python for Physical Modeling
Updated Edition
Jesse M. Kinder & Philip Nelson

March 2018. 176 pages. 5 color illus.
Pa: 978-0-691-18057-1 \$24.95 | £19.95
Cl: 978-0-691-18056-4 \$75.00 | £62.95

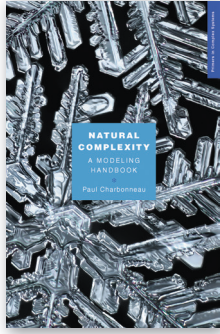


Forthcoming
Molecular Machines
A Materials Science Approach
Giovanni Zocchi

“Stimulating. Zocchi presents a new and refreshing perspective on old fundamental problems. [This] is an important book.”
—Anatoly B. Kolomeisky, author of *Motor Proteins and Molecular Motors*

Molecular Machines presents a dynamic new approach to the physics of enzymes and DNA from the perspective of materials science. Unified around the concept of molecular deformability, this book describes the complex molecules of life from the innovative perspective of materials properties and dynamics, in contrast to structural or purely chemical approaches. It covers a wealth of topics, including non-linear deformability of enzymes and DNA, the chemo-dynamic cycle of enzymes, supra-molecular constructions with internal stress, Brownian motion, and barrier crossing. Essential reading for researchers in materials science, engineering, and nanotechnology, the book also describes the landmark experiments that have established the materials properties and energy landscape of large biological molecules.

July 2018. 208 pages. 94 b/w illus.
Cl: 978-0-691-17386-3 \$65.00 | £54.95



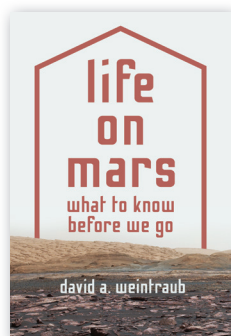
New
Natural Complexity
A Modeling Handbook
Paul Charbonneau

“The appeal of this book is twofold. It provides practical examples of computational modeling. It also motivates readers by detailing breathtaking systems in the real world. The combination is winning.”
—Aimee Norton, Stanford University

This book provides a short, hands-on introduction to the science of complexity using simple computational models of natural complex systems—with models and exercises drawn from physics, chemistry, geology, and biology. By working through the models and engaging in additional computational explorations suggested at the end of each chapter, readers very quickly develop an understanding of how complex structures and behaviors can emerge in natural phenomena as diverse as avalanches, forest fires, earthquakes, chemical reactions, animal flocks, and epidemic diseases. Self-contained and accessible, *Natural Complexity* enables readers to form their own answers to the questions of what natural complexity is and how it arises.

Primers in Complex Systems

2017. 376 pages. 19 tables. 62 color illus.
28 line illus. 1 halftone.
Pa: 978-0-691-17035-0 \$49.50 | £41.95
Cl: 978-0-691-17684-0 \$99.50 | £83.95



Forthcoming
Life on Mars
What to Know Before We Go
 David A. Weintraub

"Weintraub's well-written and easy-to-read book will appeal to anyone interested in Mars and the search for life."

—Alfred McEwen, director of the Planetary Image Research Laboratory, University of Arizona

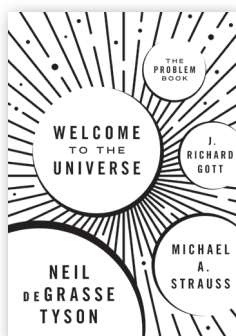
Does life exist on Mars? This book tells the complete story of the quest to answer one of the most tantalizing questions in astronomy. But it is more than a history. *Life on Mars* explains what we need to know before we go.

David Weintraub tells why, of all the celestial bodies in our solar system, Mars has beckoned to us the most. He traces how our ideas about life on Mars have been refined by landers and rovers, telescopes, spectroscopy, and even a Martian meteorite.

Life on Mars is also a book about how science is done—and undone—in the age of mass media. It shows how Mars mania has obscured our vision since we first turned our sights on the planet and encourages a healthy skepticism toward the media hype surrounding Mars.

May 2018. 320 pages. 8 color illus + 38 b/w illus.

Cl: 978-0-691-18053-3 \$29.95 | £24.95



New
Welcome to the Universe
The Problem Book
 Neil deGrasse Tyson,
 Michael A. Strauss &
 J. Richard Gott

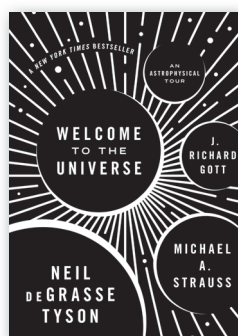
"This book . . . will be a valuable resource for anyone teaching introductory astronomy and an exhilarating challenge for students who want to sharpen their wits against the cosmos."

—David Weinberg, Ohio State University

Whether you're a student or teacher, citizen scientist or science enthusiast, your guided tour of the cosmos just got even more hands-on with *Welcome to the Universe: The Problem Book*. Here is the essential companion to *Welcome to the Universe*, a New York Times bestseller that was inspired by the enormously popular introductory astronomy course for nonscience majors that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton. This problem book features more than one hundred problems and exercises used in the original course—ideal for anyone who wants to deepen their understanding of the original material and to learn to think like an astrophysicist.

2017. 264 pages. 13 line illus.

Pa: 978-0-691-17781-6 \$35.00 | £27.95
 Cl: 978-0-691-17780-9 \$65.00 | £54.95



Welcome to the Universe
An Astrophysical Tour
 Neil deGrasse Tyson,
 Michael A. Strauss &
 J. Richard Gott

"The authors maintain the individual charms of their distinct voices chapter by chapter so the reader has the visceral sense of science shared, passed from one mind to another, almost as though through an oral history—ultimately, a warm welcome to the universe."

—Janna Levin, author of *Black Hole Blues and Other Songs from Outer Space*

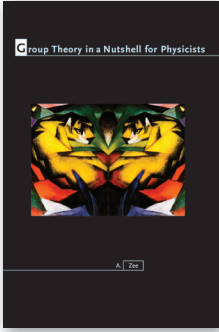
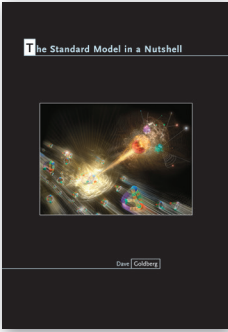
Welcome to the Universe is a personal guided tour of the cosmos by three of today's leading astrophysicists. Describing the latest discoveries in astrophysics, the informative and entertaining narrative propels you from our home solar system to the outermost frontiers of space. How do stars live and die? Why did Pluto lose its planetary status? What are the prospects of intelligent life elsewhere in the universe? Answering these and many other questions, the authors open your eyes to the wonders of the cosmos.

2016. 472 pages. 100 color illus.

Cl: 978-0-691-15724-5 \$39.95 | £29.95

A New York Times Bestseller

Honorable Mention for the 2017 PROSE Award in Cosmology & Astronomy, Association of American Publishers



New
The Standard Model in a Nutshell
Dave Goldberg
“Has the potential to become the standard book for an introductory course on the Standard Model.”
—Craig Copi, Case Western Reserve University
Provides a comprehensive and accessible introduction to one of the most important subjects in modern physics, revealing why the Standard Model really is as elegant as physicists say.
2017. 320 pages. 66 line illus. 12 tables. 9 halftones.
Cl: 978-0-691-16759-6 \$85.00 | £70.95

Condensed Matter in a Nutshell
Gerald D. Mahan
2010. 592 pages. 162 line illus. 35 tables.
Cl: 978-0-691-14016-2 \$105.00 | £87.95
Not for sale in South Asia

Quantum Mechanics in a Nutshell
Gerald D. Mahan
2009. 416 pages. 58 line illus.
Cl: 978-0-691-13713-1 \$105.00 | £87.95

String Theory in a Nutshell
Elias Kiritsis
2007. 608 pages. 18 halftones. 44 line illus. 7 tables.
Cl: 978-0-691-12230-4 \$97.50 | £81.95
Not for sale in South Asia

Group Theory in a Nutshell for Physicists
A. Zee
“Clearly written, this book makes an ideal text for a graduate course in physics on the subject.”
—Barry Simon, California Institute of Technology
This book is a user-friendly and classroom-tested text that focuses on the aspects of group theory physicists most need to know. Also included: a concise review of the linear algebra needed for group theory, making the book ideal for self-study.
2016. 632 pages. 65 line illus. 3 halftones.
Cl: 978-0-691-16269-0 \$90.00 | £74.95
Honorable Mention for the 2017 PROSE Award in Textbook/Best in Physical Sciences & Mathematics, Association of American Publishers

Einstein Gravity in a Nutshell
A. Zee
2013. 888 pages. 50 halftones. 150 line illus.
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One of Choice's Outstanding Academic Titles for 2013

Quantum Field Theory in a Nutshell
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Cl: 978-0-691-14034-6 \$85.00 | £70.95
Not for sale in South Asia

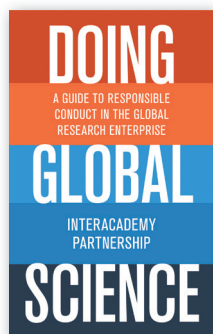
Statistical Mechanics in a Nutshell
Luca Peliti
2011. 416 pages. 74 line illus. 6 tables.
Cl: 978-0-691-14529-7 \$99.95 | £83.95

Astrophysics in a Nutshell Second Edition
Dan Maoz
“The presentation of so much material ... is done very skillfully.”
—Leon Mestel, *Observatory*
This has become the text of choice in astrophysics courses for science majors at top universities in North America and beyond. This expanded and fully updated second edition, is a brief but thorough introduction to the observational data and theoretical concepts underlying modern astronomy.
2016. 312 pages. 77 line illus. 21 halftones.
Cl: 978-0-691-16479-3 \$85.00 | £70.95
Winner of the Chambliss Award, American Astronomical Society

Classical Electromagnetism in a Nutshell
Anupam Garg
2012. 712 pages. 52 halftones. 122 line illus.
Cl: 978-0-691-13018-7 \$115.00 | £95.95

Elementary Particle Physics in a Nutshell
Christopher G. Tully
2011. 320 pages. 135 halftones.
Cl: 978-0-691-13116-0 \$97.50 | £81.95

Nuclear Physics in a Nutshell
Carlos A. Bertulani
2007. 488 pages. 118 tables. 50 line illus.
Cl: 978-0-691-12505-3 \$99.95 | £83.95

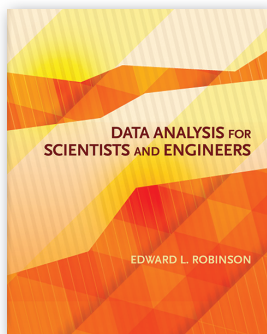


Doing Global Science
*A Guide to Responsible
 Conduct in Global Research*
 InterAcademy Partnership

“A comprehensive code of conduct
 for scientific research.”

—Maria Spiropulu, California
 Institute of Technology

2016. 192 pages, 11 line illus.
 Cl: 978-0-691-17075-6 \$14.95 | £12.95

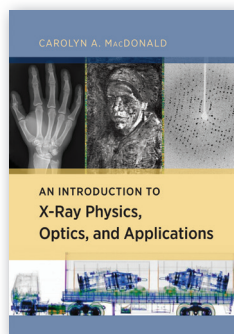


**Data Analysis for
 Scientists and
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 Edward L. Robinson

“An excellent overview of modern
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—Jeremy Kasdin, Princeton
 University

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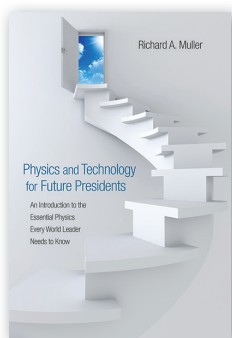
**An Introduction to
 X-Ray Physics, Optics,
 and Applications**
 Carolyn A. MacDonald

“[An] insightful book.”

—Andrew Maidment, University
 of Pennsylvania

This book provides a comprehen-
 sive introduction to the physics of
 a wide range of x-ray applications,
 optics, and analysis tools.

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 Institute of Technology

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 You Hear**
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 Psychoacoustics*

Eric J. Heller

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 sound actually works. . . . [I]t is
 so fully informed by Heller’s
 particular scientific genius”
 —David Politzer, Nobel Laureate
 in Physics

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**Applications of Modern
 Physics in Medicine**

Mark Strikman,
 Kevork Spartalian &
 Milton W. Cole

“[This book] should lead to the
 creation of new physics courses
 all over the world.”

—Gerald Miller, University of
 Washington

2014. 304 pages. 4 tables. 8 color illus.
 101 line illus. 24 halftones.
 Cl: 978-0-691-12586-2 \$78.50 | £65.95

**Mathematical Methods
 for Geophysics and
 Space Physics**

William I. Newman

“Elegant and nicely written.”

—Francis Nimmo, University of
 California, Santa Cruz

2016. 272 pages. 42 line illus.
 Cl: 978-0-691-17060-2 \$75.00 | £62.95

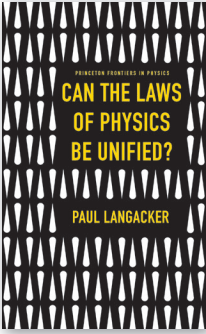
**Statistical and
 Thermal Physics**
With Computer Applications

Harvey Gould & Jan Tobochnik

“This is an ambitious book written
 by two experienced researchers
 and teachers.”

—Joel L. Lebowitz, Rutgers
 University

2010. 536 pages. 105 line illus. 35 tables.
 Cl: 978-0-691-13744-5 \$115.00 | £95.95



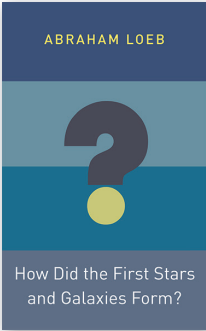
Can the Laws of Physics Be Unified?

Paul Langacker

“A useful and informative book that brings the standard model to a broad audience of scientists and aspiring scientists who are interested in the current status of particle physics.”
—Tom Lubensky, University of Pennsylvania

The standard model of particle physics describes our current understanding of nature’s fundamental particles and their interactions, yet gaps remain. Once complete, however, the standard model could provide a unified description of the very building blocks of the universe. Researchers have been chasing this dream for decades, and many wonder whether such a dream can ever be made a reality. *Can the Laws of Physics Be Unified?* is a short introduction to this exciting frontier of physics. The book is accessibly written for students and researchers across the sciences, and for scientifically minded general readers. This book describes the promising theoretical ideas and new experiments that could provide answers and weighs our prospects for establishing a truly unified theory of the smallest constituents of nature and their interactions.

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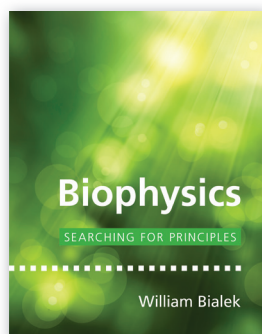
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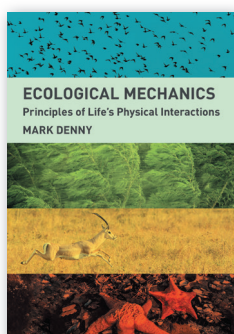
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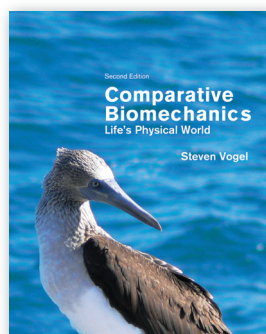
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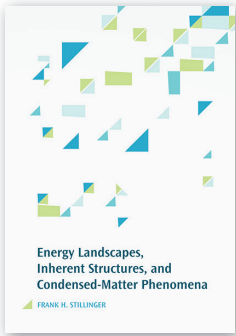
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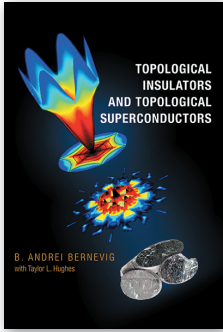


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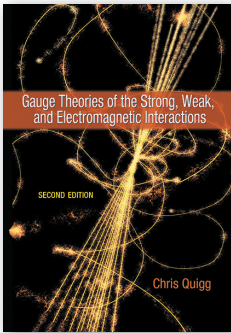
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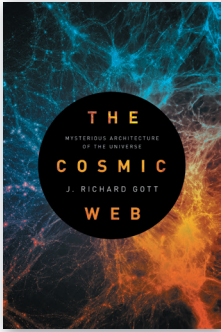
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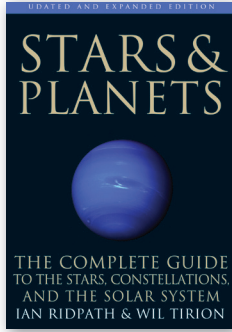
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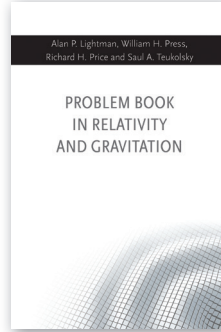
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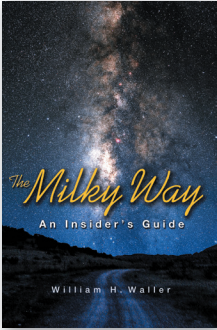
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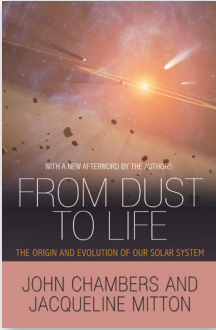
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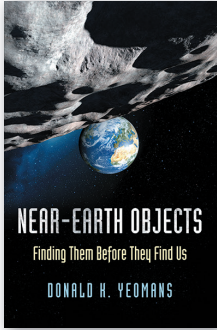
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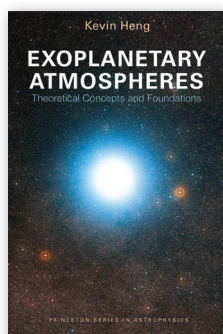
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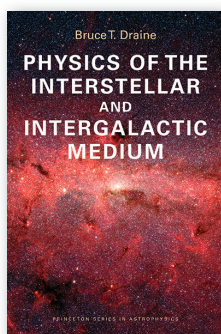
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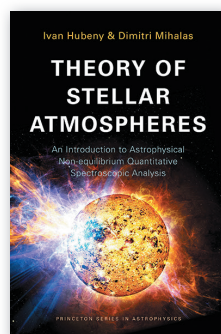
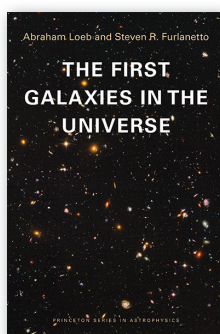
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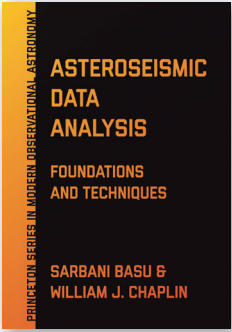
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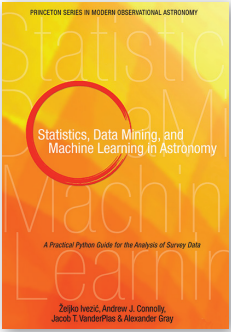
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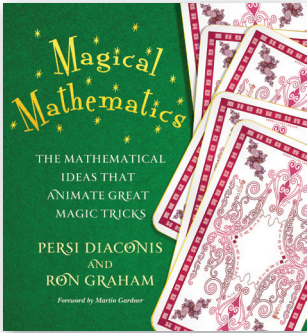
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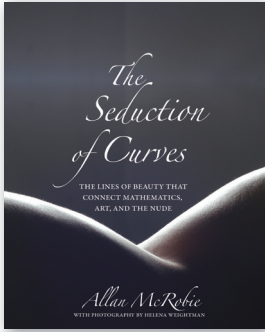
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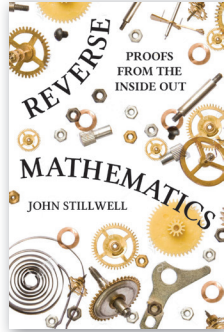
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“Filling an important niche, this book gives readers a good picture of the basics of reverse mathematics while suggesting several directions for further reading and study.”
—Denis Hirschfeldt, University of Chicago

January 2018. 200 pages. 30 line illus.
5 halftones.
Cl: 978-0-691-17717-5 \$24.95 | £19.95

Forthcoming
The Ethical Engineer
Contemporary Concepts and Cases

Robert McGinn

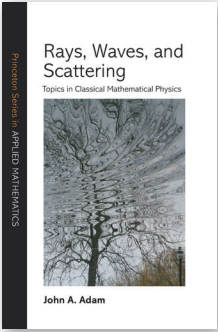
“This is a crucial and timely book on ethics in engineering and science by one of the world’s foremost ethicists of technology and society. Every engineering department should read and use this book for planning their curricula.”

—Stephen R. Barley, University of California, Santa Barbara

March 2018. 352 pages. 7 halftones.
2 line illus. 1 table.
Pa: 978-0-691-17770-0 \$55.00 | £45.95
Cl: 978-0-691-17769-4 \$95.00 | £79.95

Engineering Dynamics
A Comprehensive Introduction
Jeremy N. Kasdin
& Derek A. Paley

2011. 688 pages. 328 line illus. 4 tables.
Cl: 978-0-691-13537-3 \$105.00 | £87.95

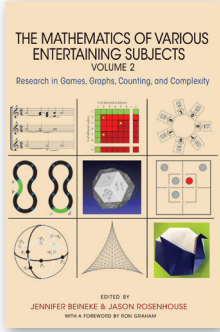


New
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Princeton Series in Applied Mathematics
Ingrid Daubechies, Weinan E, Jan Karel Lenstra,
Endre Süli, Series Editors
2017. 616 pages. 100 line illus. 12 halftones.
Cl: 978-0-691-14837-3 \$85.00 | £70.95



New
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With a foreword by Ron Graham

“As enticing as a Rubik’s Cube, this rigorous and inviting book is a treat to the eyes and mind.”
—Tim Chartier, author of *Math Bytes: Google Bombs, Chocolate-Covered Pi, and Other Cool Bits in Computing*

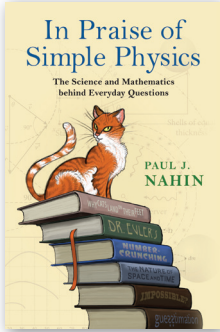
2017. 408 pages. 76 line illus. 1 halftone.
47 tables. 71 color illus.
Cl: 978-0-691-17192-0 \$85.00 | £70.95

Forthcoming
Mathematical Foundations of Quantum Mechanics
New Edition

John von Neumann
Translated by Robert T. Beyer
Edited by Nicholas A. Wheeler

“[This book] remains indispensable to those who desire a rigorous presentation of the foundations of the subject.”
—A. F. Stevenson, *Quarterly of Applied Mathematics*

March 2018. 328 pages. 5 b/w illus.
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Cl: 978-0-691-17856-1 \$150.00 | £124.95



New in Paperback
In Praise of Simple Physics
The Science and Mathematics behind Everyday Questions
Paul J. Nahin

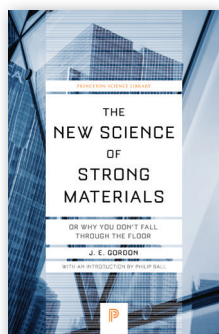
“Nahin’s writing style . . . is clear, conversational, humorous and chatty. . . [A]nd the discussions in the book are careful and appropriately rigorous.”
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Princeton Puzzlers
2017. 272 pages. 58 line illus. 1 halftone.
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2017. 248 pages. 41 line illus. 2 halftones.
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Forthcoming in Paperback The New Science of Strong Materials, or Why You Don't Fall Through the Floor

J. E. Gordon

With an introduction
by Philip Ball

"I was thoroughly charmed and won over by this book which I now recommend to all my colleagues."

—Daniel C. Mattis, *American Journal of Physics*

This new edition of J. E. Gordon's classic introduction to the properties of materials used in engineering answers some fundamental and fascinating questions about how the material world around us functions. For each material in question, Gordon explains the unique physical and chemical basis for its inherent structural qualities in irrepressibly fresh and simple terms. He also shows how an in-depth understanding of these materials' intrinsic strengths (and weaknesses) guides our engineering choices. Philip Ball's introduction describes the impact of Gordon's innovations in materials research, while also discussing how the field has evolved since Gordon wrote this enduring example of first-rate scientific communication.

June 2018. 328 pages. 6 tables. 65 b/w illus.
Pa: 978-0-691-18098-4 \$19.95
For sale only in the United States, its dependencies, and the Philippines



New in Paperback Our Cosmic Habitat

Martin Rees

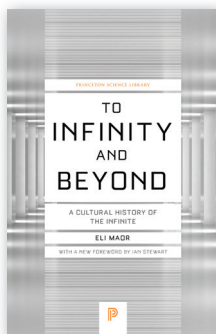
With a new preface by the author

"Rees is not only a world-class cosmologist but one of our best living science writers."

—John Cornwell, *Sunday Times*

Our universe seems strangely "biophilic," or hospitable to life. Is this happenstance, providence, or coincidence? According to cosmologist Martin Rees, the answer depends on the answer to another question, the one posed by Einstein's famous remark: "What interests me most is whether God could have made the world differently." This book explores the consequences of the answer being "yes." Rees explores the notion that our universe is just a part of a vast ensemble of universes, in which most of the other universes are lifeless. In this scenario, our cosmic habitat would be a special, possibly unique universe where the prevailing laws of physics allowed life to emerge. Expanding our comprehension of the cosmos, *Our Cosmic Habitat* will be read and enjoyed by all those—scientists and nonscientists alike—who are fascinated by the universe we inhabit.

2017. 224 pages. 19 line illus.
Pa: 978-0-691-17809-7 \$17.95 | £14.95



New in Paperback To Infinity and Beyond A Cultural History of the Infinite

Eli Maor

With a new foreword by
Ian Stewart

"Fascinating and enjoyable. . . .

[P]laces the ideas of infinity in a cultural context and shows how they have been espoused and molded by mathematics."

—*Science*

To Infinity and Beyond explores the idea of infinity in mathematics and art, as well as its cultural impact on the arts and sciences. Eli Maor evokes the profound intellectual impact the infinite has exercised on the human mind—from the "horror infiniti" of the Greeks to the works of M. C. Escher. But above all, the book describes the mathematician's fascination with infinity—a fascination mingled with puzzlement.

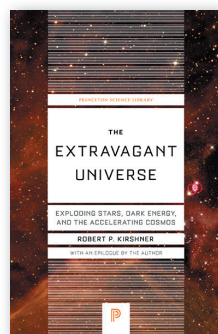
2017. 312 pages. 6 color illus.
Pa: 978-0-691-17811-0 \$22.95
For sale only in the United States and Canada

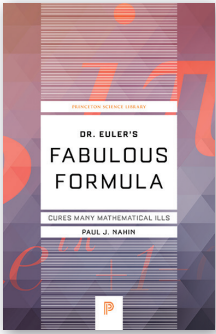
The Extravagant Universe Exploding Stars, Dark Energy, and the Accelerating Cosmos

Robert P. Kirshner

With an epilogue by the author

2016. 312 pages. 29 halftones. 11 color illus.
12 line illus.
Pa: 978-0-691-17318-4 \$19.95 | £14.95
Winner of the 2002 Award for Best Professional/Scholarly Book in Physics and Astronomy, Association of American Publishers





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Cures Many Mathematical Ills
 Paul J. Nahin

"This excellent book goes a long way to explaining the kind of mathematician [Euler] really was."
 —Steve Humble, *Mathematics Today*

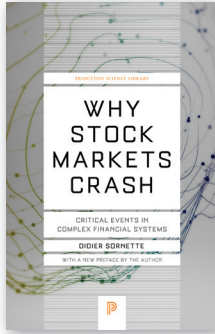
In the mid-eighteenth century, Swiss-born mathematician Leonhard Euler developed a formula so innovative that it continues to inspire research, discussion, and even the occasional limerick. *Dr. Euler's Fabulous Formula* shares the fascinating story of this groundbreaking formula and shows why it still lies at the heart of complex number theory. This book promises to inspire mathematicians for years to come.

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Symmetry
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"Dr. Weyl presents a masterful and fascinating survey of the applications of the principle of symmetry in sculpture, painting, architecture, ornament, and design; its manifestations in organic and inorganic nature; and its philosophical and mathematical significance."
 —*Scientific American*

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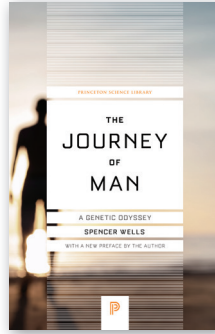
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Showing how the secrets about our ancestors are hidden in our genetic code, Spencer Wells reveals how developments in the cutting-edge science of population genetics have made it possible to create a family tree for the whole of humanity. We now know not only where our ancestors lived but who they fought, loved, and influenced.

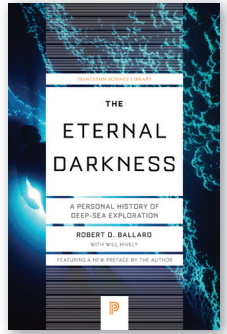
2017. 240 pages. 3 maps. 54 halftones.
 Pa: 978-0-691-17601-7 \$16.95 | £14.95
 Not for sale in Commonwealth (excluding Canada), and the European Union

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With Will Hively
Featuring a new preface by the author

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 Pa: 978-0-691-17562-1 \$24.95 | £19.95
 Winner of the Commonwealth Award for Science and Invention, Sigma Xi

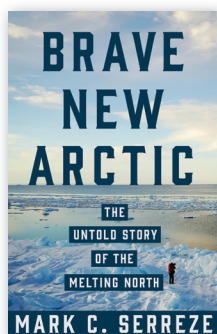


Fearful Symmetry
The Search for Beauty in Modern Physics

A. Zee
With a foreword by Roger Penrose

"Zee's exposition of the intuitive use by modern theoretical physicists of the concept of symmetry . . . in order to fathom nature's laws is superb scientific reading."
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Forthcoming Brave New Arctic *The Untold Story of the Melting North*

Mark C. Serreze

"An insightful and entertaining read."

—John E. Walsh, coauthor of
Severe and Hazardous Weather

In the 1990s, researchers in the Arctic noticed that floating summer sea ice had begun receding. This was accompanied by shifts in ocean circulation and unexpected changes in weather patterns throughout the world. What was going on? *Brave New Arctic* is Mark Serreze's riveting firsthand account of how scientists from around the globe came together to find answers.

A gripping scientific adventure story, this book shows how the Arctic's extraordinary transformation serves as a harbinger of things to come if we fail to meet the challenge posed by a warming Earth.

April 2018. 256 pages. 8 color illus + 30 b/w illus.

Cl: 978-0-691-17399-3 \$24.95 | £19.95

Life's Engines *How Microbes Made Earth Habitable*

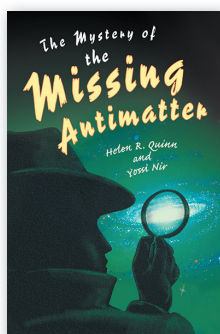
Paul G. Falkowski

2016. 224 pages. 22 line illus, 16 tables.

Pa: 978-0-691-17335-1 \$18.95 | £14.95

Cl: 978-0-691-15537-1 \$24.95 | £19.95

One of Choice's Outstanding Academic Titles for 2015



The Mystery of the Missing Antimatter

Helen R. Quinn & Yossi Nir

"A remarkable book which provides one of the most satisfying tours of particle physics I have ever read."

—Marcus Chown, *BBC Focus Magazine*

In the first fractions of a second after the Big Bang lingers a question at the heart of our very existence: why does the universe contain matter but almost no antimatter? In *The Mystery of the Missing Antimatter*, Helen Quinn and Yossi Nir guide readers into the very heart of this mystery—and along the way offer an exhilarating grand tour of cutting-edge physics.

2014. 312 pages. 12 halftones.

Pa: 978-0-691-16393-2 \$19.95 | £14.95

Honorable Mention for the 2008 PROSE Award in Chemistry and Physics, Association of American Publishers

How to Find a Habitable Planet

James Kasting

*With a new afterward by the
author*

2012. 352 pages. 57 halftones. 16 color illus.

15 line illus, 4 tables.

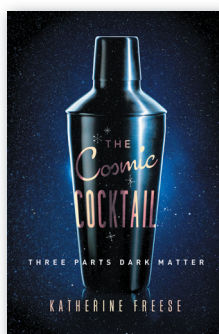
Pa: 978-0-691-15627-9 \$24.95 | £19.95

The Little Book of Stiring Theory

Steven S. Gubser

2010. 184 pages. 21 line illus.

Cl: 978-0-691-14289-0 \$19.95 | £14.95



The Cosmic Cocktail *Three Parts Dark Matter*

Katherine Freese

"A number of other front-line particle physicists, cosmologists and so forth have also written up their versions of the dark matter story. . . . But none of the other accounts I've read is more fun than *The Cosmic Cocktail*."

—Virginia Trimble, *Times Higher Education*

Many cosmologists believe we are on the verge of solving the mystery. *The Cosmic Cocktail* provides the foundation needed to fully fathom this epochal moment in humankind's quest to understand the universe.

2016. 272 pages. 63 halftones. 11 line illus.

16 color illus.

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Heart of Darkness *Unraveling the Mysteries of the Invisible Universe*

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One of Choice's Outstanding Academic Titles Top 25 Academic Books for 2013

Oxygen *A Four Billion Year History*

Donald E. Canfield

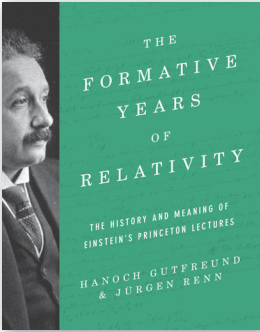
2015. 224 pages. 35 line illus. 20 halftones.

8 color illus.

Pa: 978-0-691-16836-4 \$17.95 | £14.95

Cl: 978-0-691-14502-0 \$29.95 | £24.95.

One of Nature.com's Top 20 Reads for 2014

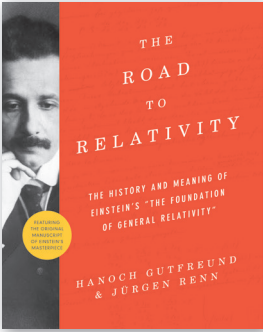


New
The Formative Years of Relativity
The History and Meaning of Einstein's Princeton Lectures
Hanoch Gutfreund & Jürgen Renn

"The authors paint a detailed but dynamic recounting of how general relativity became what it is today."
—*Nature Astronomy*

First published in 1922 and based on lectures delivered in May 1921, Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity. Now, *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences. This beautiful volume contains Einstein's insightful text, accompanied by important historical materials and commentary. Hanoch Gutfreund and Jürgen Renn provide fresh perspectives, placing Einstein's achievements into a broader context for all readers. This edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters. The first-ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end.

2017. 432 pages. 66 halftones. 6 line illus.
Cl: 978-0-691-17463-1 \$35.00 | £27.95

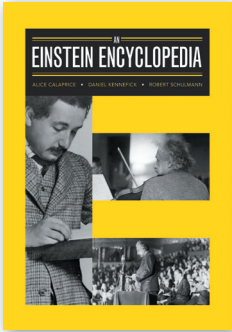


New in Paperback
The Road to Relativity
The History and Meaning of Einstein's "The Foundation of General Relativity" Featuring the Original Manuscript of Einstein's Masterpiece
Hanoch Gutfreund & Jürgen Renn
With a foreword by John Stachel

"[Readers] will relish the chance to parse this annotated facsimile of the physicist's original manuscript on general relativity. . . . [T]he accompanying illustrations and documents open a fascinating window onto Einstein's otherwise inaccessible opus."
—*Scientific American*

Written in 1915, "The Foundation of General Relativity" is a watershed in the history of physics and an enduring testament to the elegance and precision of Einstein's thought. Presented here is a facsimile of Einstein's original handwritten manuscript, along with its English translation and page-by-page commentary that places the work in historical and scientific context. This handsome edition also includes a biographical glossary of the figures discussed in the book, a comprehensive bibliography, and numerous photos and illustrations throughout.

2017. 264 pages. 41 line illus. 100 halftones.
Pa: 978-0-691-17581-2 \$22.95 | £18.95
Cl: 978-0-691-16253-9 \$37.50 | £31.95

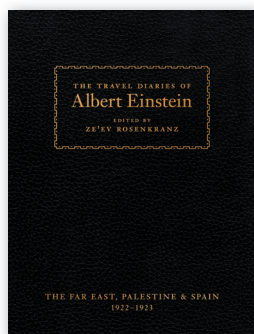


Forthcoming in Paperback
An Einstein Encyclopedia
Alice Calaprice, Daniel Kennefick & Robert Schulmann

"[*An Einstein Encyclopedia*] is full of fascinating information about Einstein. . . . This is an extremely well-organized and user-friendly reference title, thoroughly researched and accessible to the general public, students, and scholars alike."
—Lyndsie Robinson, *Booklist*

This is the single most complete guide to Albert Einstein's life and work for students, researchers, and browsers alike. Written by three leading Einstein scholars, this reference features more than one hundred entries and is divided into three parts covering the personal, scientific, and public spheres of Einstein's life. Commemorating the hundredth anniversary of the theory of general relativity, *An Einstein Encyclopedia* also includes a chronology of Einstein's life and appendixes that provide information for further reading and research, including an annotated list of a selection of Einstein's publications and a review of selected books about Einstein.

February 2018. 376 pages. 43 b/w illus. 2 maps.
Pa: 978-0-691-18084-7 \$24.95 | £19.95
Cl: 978-0-691-14174-9 \$39.95 | £32.95
One of Symmetry magazine's Physics Books of 2015



Forthcoming
The Travel Diaries of Albert Einstein
The Far East, Palestine, and Spain, 1922-1923

Albert Einstein
 Edited by Ze'ev Rosenkranz

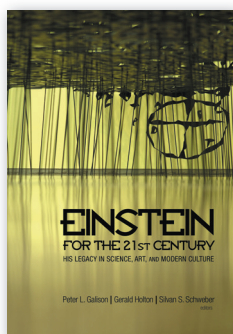
Covering one of the most thrilling two-year periods in twentieth-century physics, this volume's massive personal and professional correspondence of more than 1,000 letters and almost 100 writings show Einstein's immense productivity and hectic pace of life. During this time matrix mechanics and wave mechanics supplant the earlier quantum theory. Einstein recognizes the great importance of the new developments and the conceptual difficulties involved. He continues to work on unified field theory, and turns to a new, mixed geometry, mathematical approach. This volume also contains revelations about Einstein's personal life, including old romantic entanglements and new conflicts.

June 2018. 256 pages. 36 b/w illus.
 Cl: 978-0-691-17441-9 \$29.95 | £24.95

Traveling at the Speed of Thought
Einstein and the Quest for Gravitational Waves

Daniel Kennefick

2007. 336 pages. 20 halftones. 20 line illus.
 Cl: 978-0-691-11727-0 \$55.00 | £45.95



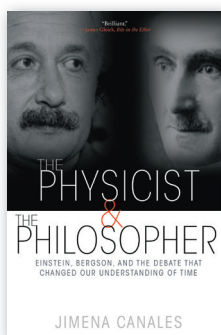
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Einstein for the 21st Century
His Legacy in Science, Art, and Modern Culture

Peter L. Galison,
 Gerald James Holton &
 Silvan S. Schweber, editors

"[A]s stunning in its breadth as Einstein was in his science."

—*Seed Magazine*

2017. 384 pages. 22 color illus. 36 halftones.
 Pa: 978-0-691-17790-8 \$35.00 | £27.95
 Cl: 978-0-691-13520-5 \$72.50 | £60.95



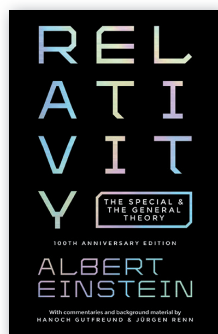
The Physicist and the Philosopher
Einstein, Bergson, and the Debate That Changed Our Understanding of Time

Jimena Canales

"Canales marks a turning point in the power of philosophy to influence science."

—*Publishers Weekly*

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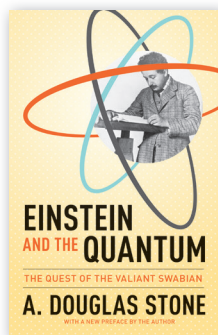
Relativity
The Special and the General Theory
100th Anniversary Edition

Albert Einstein
 With commentaries and background material by
 Hanoch Gutfreund &
 Jürgen Renn

"I can still see some fugitive magic in *Relativity*."

—Pedro Ferreira, *Nature*

2015. 320 pages. 14 halftones.
 Cl: 978-0-691-16633-9 \$26.95 | £21.95



Einstein and the Quantum
The Quest of the Valiant Swabian

A. Douglas Stone

"A fascinating book, so well written lay people can easily understand this. It is full of science and personality."

—Ira Flatow, *Science Friday*, NPR

2015. 344 pages. 18 halftones. 5 line illus.
 Pa: 978-0-691-16856-2 \$19.95 | £14.95
 Cl: 978-0-691-13968-5 \$29.95 | £24.95

THE COLLECTED PAPERS OF ALBERT EINSTEIN is one of the most ambitious publishing ventures ever undertaken in the documentation of the history of science. Selected from among more than 40,000 documents contained in Einstein's personal collection, and 15,000 Einstein and Einstein-related documents discovered by the editors since the beginning of the Einstein Project, *The Collected Papers* provides the first complete picture of a massive written legacy that ranges from Einstein's first work on the special and general theories of relativity and the origins of quantum theory, to expressions of his profound concern with civil liberties, education, Zionism, pacifism, and disarmament. When completed, the series will contain more than 14,000 documents as full text and will fill thirty volumes. einsteinpapers.press.princeton.edu

Volume 1
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1987. 504 pages.
CI: 978-0-691-08407-7 \$165.00 | £137.95

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CI: 978-0-691-08526-5 \$165.00 | £137.95

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Pa: 978-0-691-10250-4 \$69.95 | £58.95

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CI: 978-0-691-03705-9 \$165.00 | £137.95

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Writings, 1914–1917**

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CI: 978-0-691-01086-1 \$165.00 | £137.95

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Writings, 1918–1921**

2001. 728 pages.
CI: 978-0-691-05717-0 \$165.00 | £137.95

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Pa: 978-0-691-05718-7 \$69.95 | £58.95

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Correspondence, 1914–1918**

1998. 1232 pages. 15 illus.
CI: 978-0-691-04849-9 \$299.95 | £249.95

Paperback translation
Pa: 978-0-691-04841-3 \$99.95 | £83.95

Volume 9
**The Berlin Years:
Correspondence,
January 1919–April 1920**

2004. 776 pages. 15 halftones.
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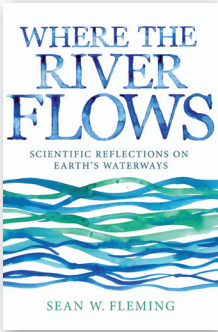
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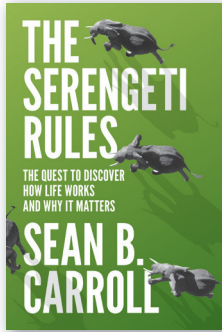


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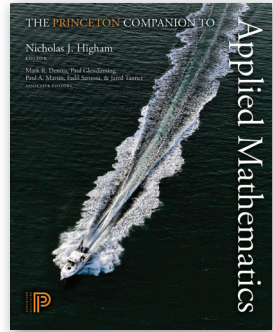


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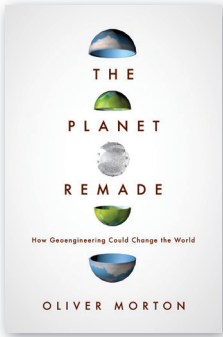
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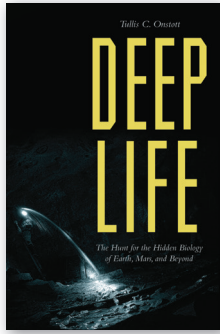
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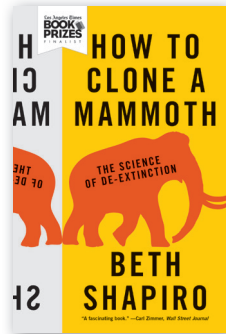
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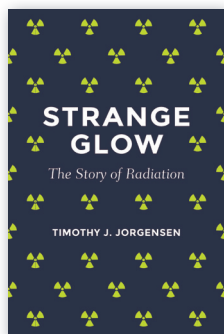
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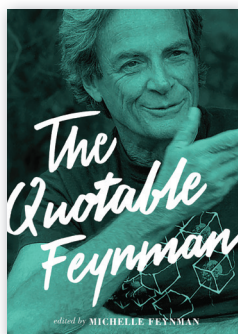
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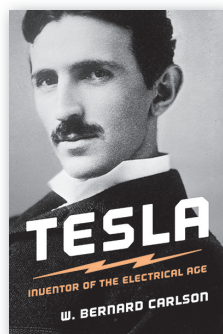


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