

**The University Press Group**

# **Physics**

**University of California Press  
Columbia University Press  
Princeton University Press**

**Complete Catalogue**

**Autumn 2021**





### University of California Press

The University of California Press strives to drive progressive change by seeking out and cultivating the brightest minds and giving them voice, reach, and impact. We believe that scholarship is a powerful tool for fostering a deeper understanding of our world and changing how people think, plan, and govern. The work of addressing society's core challenges – whether they be persistent inequality, a failing education system, or global climate change – can be accelerated when scholarship assumes its role as an agent of engagement and democracy.

[ucpress.edu](http://ucpress.edu)



### Columbia University Press

Columbia University Press seeks to enhance Columbia University's educational and research mission by publishing outstanding original works by scholars and other intellectuals that contribute to an understanding of global human concerns. The Press also reflects the importance of its location in New York City in its publishing programs. Through book, reference, electronic publishing, and distribution services, the Press broadens the university's international reputation.

[cup.columbia.edu](http://cup.columbia.edu)



### Princeton University Press

Princeton University Press brings scholarly ideas to the world. We publish peer-reviewed books that connect authors and readers across spheres of knowledge to advance and enrich the global conversation. We embrace the highest standards of scholarship, inclusivity, and diversity in our publishing. In keeping with Princeton University's commitment to serve the nation and the world, we publish for scholars, students, and engaged readers everywhere.

[press.princeton.edu](http://press.princeton.edu)

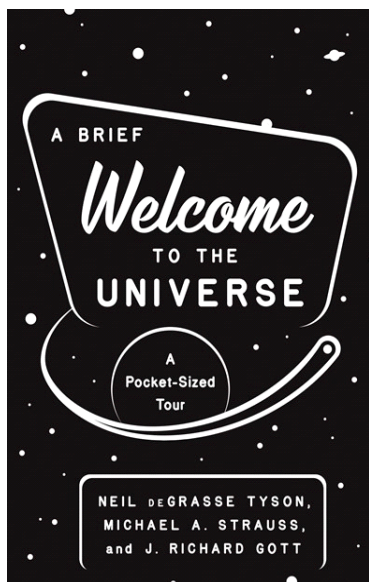


The University Press Group (UPG) is jointly owned by the University Presses of California, Columbia and Princeton and is responsible for the sales of their books in the UK and Ireland, Europe, The Middle East and Africa.

[upguk.com](http://upguk.com)

## Catalogue Contents

	Page
New Titles.....	1
Best of Backlist.....	3
Kip S. Thorne – Modern Classical Physics.....	16
P.J.E. Peebles.....	18
Text Books.....	20
In a Nutshell Series .....	22
Backlist .....	25
Index.....	31
How to order .....	40



## A Brief Welcome to the Universe

A Pocket-Sized Tour

Neil deGrasse Tyson, J. Richard Gott,  
Michael A. Strauss

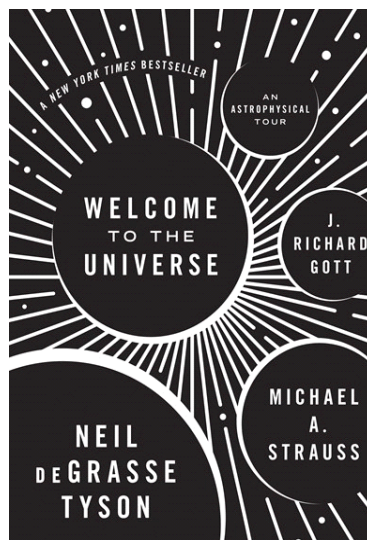
A pocket-style edition based on the *New York Times* bestseller

A *Brief Welcome to the Universe* offers a breathtaking tour of the cosmos, from planets, stars, and galaxies to black holes and time loops. Bestselling authors and acclaimed astrophysicists Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott take readers on an unforgettable journey of exploration to reveal how our universe actually works.

Propelling you from our home solar system to the outermost frontiers of space, this book builds your cosmic insight and perspective through a marvelously entertaining narrative. How do stars live and die? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and accelerating? Is our universe alone or part of an infinite multiverse? Exploring these and many other questions, this pocket-friendly book is your passport into the wonders of our evolving cosmos.

9780691219943  
\$14.95 | £9.99  
Paperback  
248 pages | 107.95mm : 177.8mm  
2021

Science / Astrophysics & Space Science  
Princeton University Press



## Welcome to the Universe

An Astrophysical Tour

Neil deGrasse Tyson, Michael A. Strauss, J.  
Richard Gott

The *New York Times* bestselling tour of the cosmos from three of today's leading astrophysicists

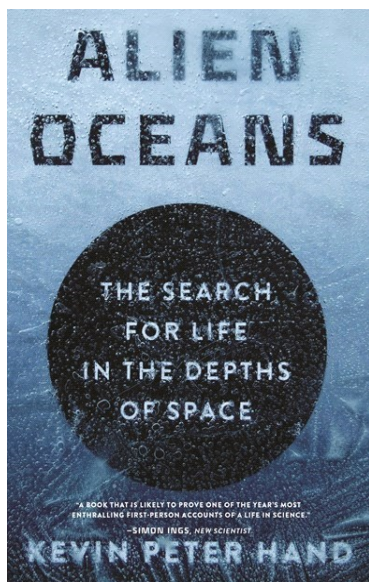
*Welcome to the Universe* is a personal guided tour of the cosmos by three of today's leading astrophysicists. Inspired by the enormously popular introductory astronomy course that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton, this book covers it all—from planets, stars, and galaxies to black holes, wormholes, and time travel.

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? How did the universe begin? Why is it expanding and why is its expansion accelerating? Is our universe alone or part of an infinite multiverse? Answering these and many other questions, the authors open your eyes to the wonders of the cosmos, sharing their knowledge of how the universe works.

Breathtaking in scope and stunningly illustrated throughout, *Welcome to the Universe* is for those who hunger for insights into our evolving universe that only world-class astrophysicists can provide.

9780691157245  
\$39.95 | £30.00  
Hardback  
480 pages | 188mm : 265mm  
2016

Science / Astrophysics & Space Science  
Princeton University Press



## Alien Oceans

The Search for Life in the Depths of Space  
Kevin Hand

**Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system**

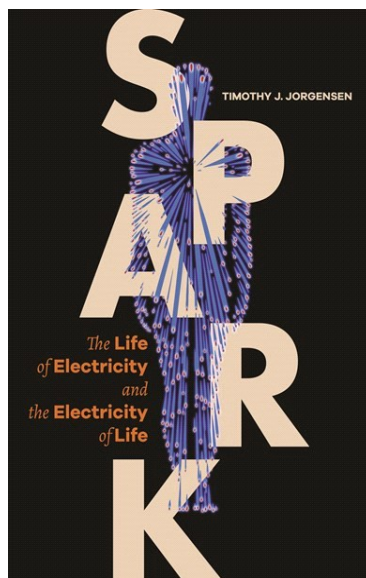
Where is the best place to find life beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths? *Alien Oceans* reveals the science behind the thrilling quest to find out.

Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has taken him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds.

*Alien Oceans* describes what lies ahead in our search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

9780691227283  
\$18.95 | £14.99  
Paperback  
304 pages | 133.35mm : 203.2mm  
2021

SCIENCE / Space Science  
Princeton University Press



## Spark

The Life of Electricity and the Electricity of Life  
Timothy J. Jorgensen

**A fresh look at electricity and its powerful role in life on Earth**

When we think of electricity, we likely imagine the energy humming inside our home appliances or lighting up our electronic devices—or perhaps we envision the lightning-streaked clouds of a stormy sky. But electricity is more than an external source of power, heat, or illumination. Life at its essence is nothing if not electrical.

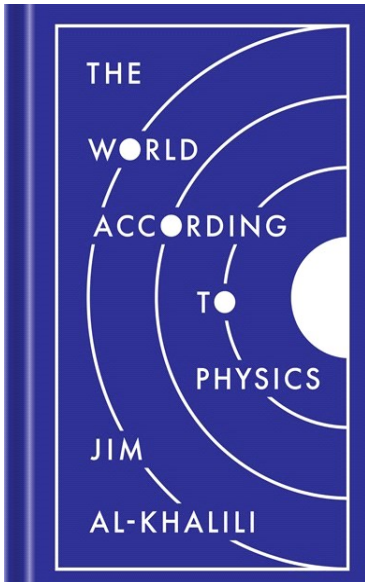
The story of how we came to understand electricity's essential role in all life is rooted in our observations of its influences on the body—influences governed by the body's central nervous system. *Spark* explains the science of electricity from this fresh, biological perspective. Through vivid tales of scientists and individuals—from Benjamin Franklin to Elon Musk—Timothy Jorgensen shows how our views of electricity and the nervous system evolved in tandem, and how progress in one area enabled advancements in the other. He explains how these developments have allowed us to understand—and replicate—the ways electricity enables the body's essential functions of sight, hearing, touch, and movement itself.

Throughout, Jorgensen examines our fascination with electricity and how it can help or harm us. He explores a broad range of topics and events, including the Nobel Prize-winning discoveries of the electron and neuron, the history of experimentation involving electricity's effects on the body, and recent breakthroughs in the use of electricity to treat disease.

Filled with gripping adventures in scientific exploration, *Spark* offers an indispensable look at electricity, how it works, and how it animates our lives from within and without.

9780691197838  
\$29.95 | £25.00  
Hardback  
456 pages | 150mm : 234mm  
2021

Science / Electricity  
Princeton University Press



## The World According to Physics

Jim Al-Khalili

**Quantum physicist, *New York Times* bestselling author, and BBC host Jim Al-Khalili offers a fascinating and illuminating look at what physics reveals about the world**

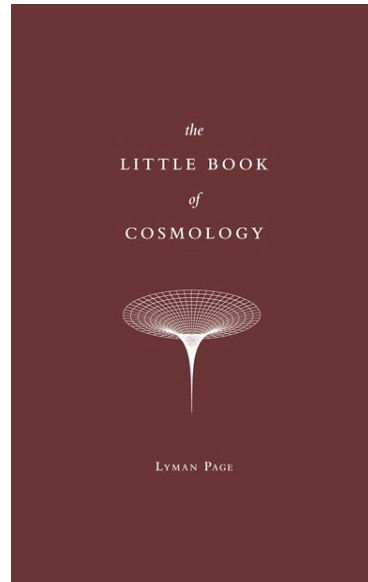
Shining a light on the most profound insights revealed by modern physics, Jim Al-Khalili invites us all to understand what this crucially important science tells us about the universe and the nature of reality itself.

Al-Khalili begins by introducing the fundamental concepts of space, time, energy, and matter, and then describes the three pillars of modern physics—quantum theory, relativity, and thermodynamics—showing how all three must come together if we are ever to have a full understanding of reality. Using wonderful examples and thought-provoking analogies, Al-Khalili illuminates the physics of the extreme cosmic and quantum scales, the speculative frontiers of the field, and the physics that underpins our everyday experiences and technologies, bringing the reader up to speed with the biggest ideas in physics in just a few sittings. Physics is revealed as an intrepid human quest for ever more foundational principles that accurately explain the natural world we see around us, an undertaking guided by core values such as honesty and doubt. The knowledge discovered by physics both empowers and humbles us, and still, physics continues to delve valiantly into the unknown.

Making even the most enigmatic scientific ideas accessible and captivating, this deeply insightful book illuminates why physics matters to everyone and calls one and all to share in the profound adventure of seeking truth in the world around us.

9780691182308  
\$16.95 | £12.99  
Hardback  
336 pages | 114.3mm : 177.8mm  
2020

Science / Physics  
**Princeton University Press**



## The Little Book of Cosmology

Lyman Page

**The cutting-edge science that is taking the measure of the universe**

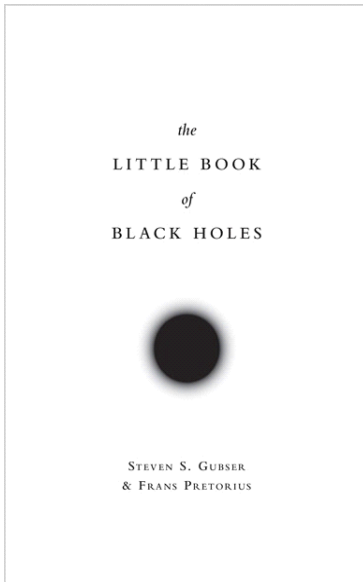
*The Little Book of Cosmology* provides a breathtaking look at our universe on the grandest scales imaginable. Written by one of the world's leading experimental cosmologists, this short but deeply insightful book describes what scientists are revealing through precise measurements of the faint thermal afterglow of the Big Bang—known as the cosmic microwave background, or CMB—and how their findings are transforming our view of the cosmos.

Blending the latest findings in cosmology with essential concepts from physics, Lyman Page first helps readers to grasp the sheer enormity of the universe, explaining how to understand the history of its formation and evolution in space and time. Then he sheds light on how spatial variations in the CMB formed, how they reveal the age, size, and geometry of the universe, and how they offer a blueprint for the formation of cosmic structure.

Not only does Page explain current observations and measurements, he describes how they can be woven together into a unified picture to form the Standard Model of Cosmology. Yet much remains unknown, and this incisive book also describes the search for ever deeper knowledge at the field's frontiers—from quests to understand the nature of neutrinos and dark energy to investigations into the physics of the very early universe.

9780691195780  
\$19.95 | £14.99  
Hardback  
152 pages | 139.7mm : 215.9mm  
2020

Science / Cosmology  
**Princeton University Press**



## The Little Book of Black Holes

Steven S. Gubser, Frans Pretorius

**Dive into a mind-bending exploration of the physics of black holes**

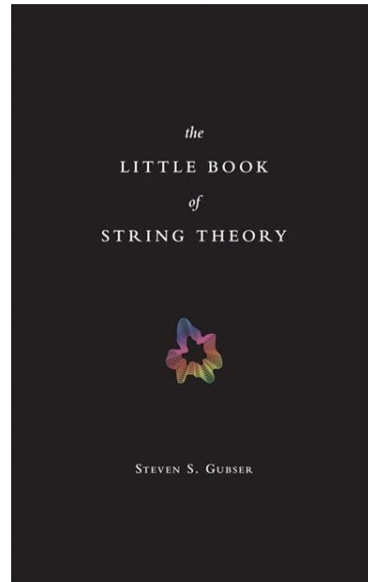
Black holes, predicted by Albert Einstein's general theory of relativity more than a century ago, have long intrigued scientists and the public with their bizarre and fantastical properties. Although Einstein understood that black holes were mathematical solutions to his equations, he never accepted their physical reality—a viewpoint many shared. This all changed in the 1960s and 1970s, when a deeper conceptual understanding of black holes developed just as new observations revealed the existence of quasars and X-ray binary star systems, whose mysterious properties could be explained by the presence of black holes. Black holes have since been the subject of intense research—and the physics governing how they behave and affect their surroundings is stranger and more mind-bending than any fiction.

After introducing the basics of the special and general theories of relativity, this book describes black holes both as astrophysical objects and theoretical “laboratories” in which physicists can test their understanding of gravitational, quantum, and thermal physics. From Schwarzschild black holes to rotating and colliding black holes, and from gravitational radiation to Hawking radiation and information loss, Steven Gubser and Frans Pretorius use creative thought experiments and analogies to explain their subject accessibly. They also describe the decades-long quest to observe the universe in gravitational waves, which recently resulted in the LIGO observatories' detection of the distinctive gravitational wave “chirp” of two colliding black holes—the first direct observation of black holes' existence.

*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.

9780691163727  
\$19.95 | £14.99  
Hardback  
200 pages | 139.7mm : 215.9mm  
2017

Science / Astrophysics & Space Science  
Science Essentials  
Princeton University Press



## The Little Book of String Theory

Steven S. Gubser

**The essential beginner's guide to string theory**

*The Little Book of String Theory* offers a short, accessible, and entertaining introduction to one of the most talked-about areas of physics today. String theory has been called the “theory of everything.” It seeks to describe all the fundamental forces of nature. It encompasses gravity and quantum mechanics in one unifying theory. But it is unproven and fraught with controversy. After reading this book, you'll be able to draw your own conclusions about string theory.

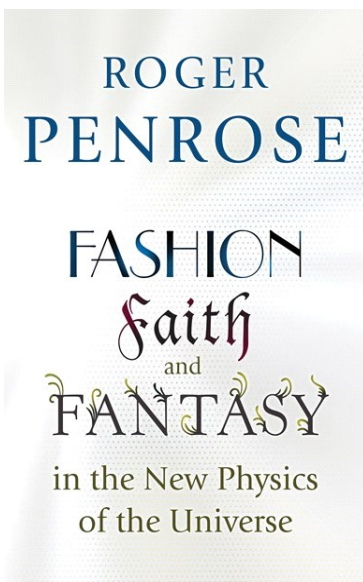
Steve Gubser begins by explaining Einstein's famous equation  $E = mc^2$ , quantum mechanics, and black holes. He then gives readers a crash course in string theory and the core ideas behind it. In plain English and with a minimum of mathematics, Gubser covers strings, branes, string dualities, extra dimensions, curved spacetime, quantum fluctuations, symmetry, and supersymmetry. He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand. How does Chopin's *Fantasie-Impromptu* relate to quantum mechanics? What would it be like to fall into a black hole? Why is dancing a waltz similar to contemplating a string duality? Find out in the pages of this book.

*The Little Book of String Theory* is the essential, most up-to-date beginner's guide to this elegant, multidimensional field of physics.

9780691142890  
\$19.95 | £14.99  
Hardback  
184 pages | 139.7mm : 215.9mm  
2010

Science / Physics  
Science Essentials  
Princeton University Press





## Fashion, Faith, and Fantasy in the New Physics of the Universe

Roger Penrose

**Nobel Prize–winning physicist Roger Penrose questions some of the most fashionable ideas in physics today, including string theory**

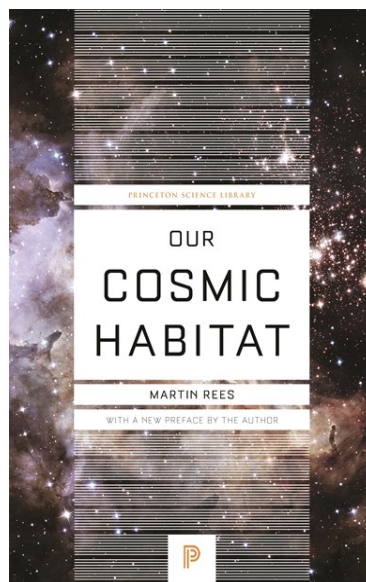
What can fashionable ideas, blind faith, or pure fantasy possibly have to do with the scientific quest to understand the universe? Surely, theoretical physicists are immune to mere trends, dogmatic beliefs, or flights of fancy? In fact, acclaimed physicist and bestselling author Roger Penrose argues 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.

Arguing that string theory has veered away from physical reality by positing six extra hidden dimensions, Penrose cautions that the fashionable nature of a theory can cloud our judgment of its plausibility. In the case of quantum mechanics, its stunning success in explaining the atomic universe has led to an uncritical faith that it must also apply to reasonably massive objects, and Penrose responds by suggesting possible changes in quantum theory. Turning to cosmology, he argues that most of the current fantastical ideas about the origins of the universe cannot be true, but that an even wilder reality may lie behind them. Finally, Penrose describes how fashion, faith, and fantasy have ironically also shaped his own work, from twistor theory, a possible alternative to string theory that is beginning to acquire a fashionable status, to "conformal cyclic cosmology," an idea so fantastic that it could be called "conformal crazy cosmology."

The result is an important critique of some of the most significant developments in physics today from one of its most eminent figures.

9780691178530  
\$17.95 | £14.99  
Paperback  
520 pages | 139mm : 203mm  
2017

Science / Philosophy & Social Aspects  
Princeton University Press



## Our Cosmic Habitat

New Edition

Martin Rees

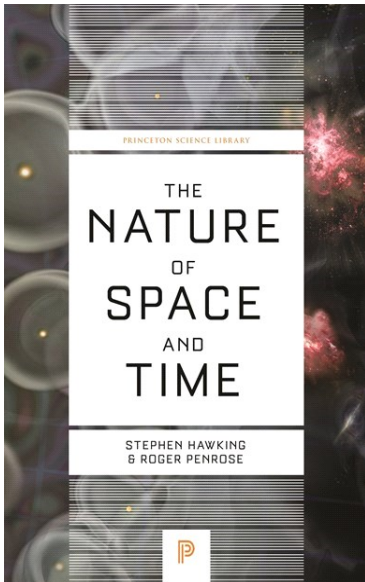
Our universe seems strangely "biophilic," or hospitable to life. Is this happenstance, providence, or coincidence? According to cosmologist Martin Rees, the answer depends on the answer to another question, the one posed by Einstein's famous remark: "What interests me most is whether God could have made the world differently." This highly engaging book explores the fascinating consequences of the answer being "yes." Rees explores the notion that our universe is just a part of a vast "multiverse," or ensemble of universes, in which most of the other universes are lifeless. What we call the laws of nature would then be no more than local bylaws, imposed in the aftermath of our own Big Bang. In this scenario, our cosmic habitat would be a special, possibly unique universe where the prevailing laws of physics allowed life to emerge.

Rees begins by exploring the nature of our solar system and examining a range of related issues such as whether our universe is or isn't infinite. He asks, for example: How likely is life? How credible is the Big Bang theory? Rees then peers into the long-range cosmic future before tracing the causal chain backward to the beginning. He concludes by trying to untangle the paradoxical notion that our entire universe, stretching 10 billion light-years in all directions, emerged from an infinitesimal speck.

As Rees argues, we may already have intimations of other universes. But the fate of the multiverse concept depends on the still-unknown bedrock nature of space and time on scales a trillion trillion times smaller than atoms, in the realm governed by the quantum physics of gravity. Expanding our comprehension of the cosmos, *Our Cosmic Habitat* will be read and enjoyed by all those—scientists and nonscientists alike—who are as fascinated by the universe we inhabit as is the author himself.

9780691178097  
\$17.95 | £14.99  
Paperback  
232 pages | 139.7mm : 215.9mm  
2017

Science / Cosmology  
Princeton Science Library  
Princeton University Press



## The Nature of Space and Time

Stephen Hawking, Roger Penrose

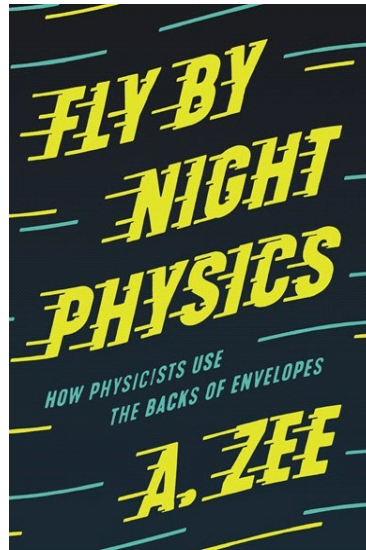
From two of the world's great physicists—Stephen Hawking and Nobel laureate Roger Penrose—a lively debate about the nature of space and time

Einstein said that the most incomprehensible thing about the universe is that it is comprehensible. But was he right? Can the quantum theory of fields and Einstein's general theory of relativity, the two most accurate and successful theories in all of physics, be united into a single quantum theory of gravity? Can quantum and cosmos ever be combined? In *The Nature of Space and Time*, two of the world's most famous physicists—Stephen Hawking (*A Brief History of Time*) and Roger Penrose (*The Road to Reality*)—debate these questions.

The authors outline how their positions have further diverged on a number of key issues, including the spatial geometry of the universe, inflationary versus cyclic theories of the cosmos, and the black-hole information-loss paradox. Though much progress has been made, Hawking and Penrose stress that physicists still have further to go in their quest for a quantum theory of gravity.

9780691168449  
\$14.95 | £11.99  
Paperback  
160 pages | 139.7mm : 215.9mm  
2015

Science / Physics  
Princeton Science Library  
Princeton University Press



## Fly by Night Physics

How Physicists Use the Backs of Envelopes  
A. Zee

The essential primer for physics students who want to build their physical intuition

Presented in A. Zee's incomparably engaging style, this book introduces physics students to the practice of using physical reasoning and judicious guesses to get at the crux of a problem. An essential primer for advanced undergraduates and beyond, *Fly by Night Physics* reveals the simple and effective techniques that researchers use to think through a problem to its solution—or failing that, to smartly guess the answer—before starting any calculations.

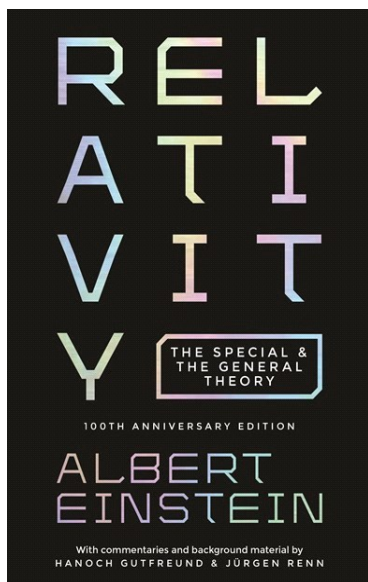
In typical physics classrooms, students seek to master an enormous toolbox of mathematical methods, which are necessary to do the precise calculations used in physics. Consequently, students often develop the unfortunate impression that physics consists of well-defined problems that can be solved with tightly reasoned and logical steps. Idealized textbook exercises and homework problems reinforce this erroneous impression. As a result, even the best students can find themselves completely unprepared for the challenges of doing actual research.

In reality, physics is replete with back of the envelope estimates, order of magnitude guesses, and fly by night leaps of logic. Including exciting problems related to cutting-edge topics in physics, from Hawking radiation to gravity waves, this indispensable book will help students more deeply understand the equations they have learned and develop the confidence to start flying by night to arrive at the answers they seek. For instructors, a solutions manual is available upon request.

9780691182544  
\$45.00 | £35.00  
Hardback  
448 pages | 177.8mm : 254mm  
2020

Science / Physics  
Princeton University Press





## Relativity

The Special and the General Theory - 100th Anniversary Edition

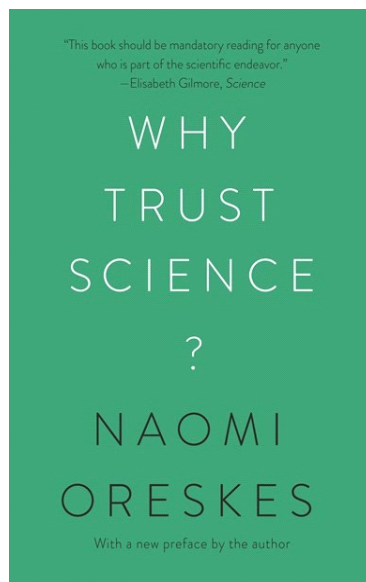
**Albert Einstein, Hanoch Gutfreund, Jürgen Renn**

**A handsome annotated edition of Einstein's celebrated book on relativity**

After completing the final version of his general theory of relativity in November 1915, Albert Einstein wrote *Relativity*. Intended for a popular audience, the book remains one of the most lucid explanations of the special and general theories ever written. This edition of Einstein's celebrated book features an authoritative English translation of the text along with commentaries by Hanoch Gutfreund and Jürgen Renn that examine the evolution of Einstein's thinking and cast his ideas in a modern context. Providing invaluable insight into one of the greatest scientific minds of all time, the book also includes a unique survey of the introductions from past editions, covers from selected early editions, a letter from Walther Rathenau to Einstein discussing the book, and a revealing sample from Einstein's original handwritten manuscript.

9780691191812  
\$16.95 | £12.99  
Paperback  
328 pages | 139.7mm : 215.9mm  
2019

Science / Relativity  
**Princeton University Press**



## Why Trust Science?

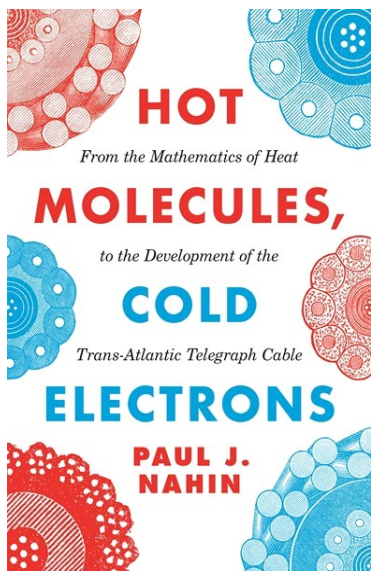
**Naomi Oreskes**

**Why the social character of scientific knowledge makes it trustworthy**

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

9780691212265  
\$18.95 | £14.99  
Paperback  
392 pages | 139.7mm : 215.9mm  
2021

Science / Philosophy & Social Aspects  
The University Center for Human Values Series  
**Princeton University Press**



## Hot Molecules, Cold Electrons

From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable

Paul J. Nahin

**An entertaining mathematical exploration of the heat equation and its role in the triumphant development of the trans-Atlantic telegraph cable**

Heat, like gravity, shapes nearly every aspect of our world and universe, from how milk dissolves in coffee to how molten planets cool. The heat equation, a cornerstone of modern physics, demystifies such processes, painting a mathematical picture of the way heat diffuses through matter. Presenting the mathematics and history behind the heat equation, *Hot Molecules, Cold Electrons* tells the remarkable story of how this foundational idea brought about one of the greatest technological advancements of the modern era.

Paul Nahin vividly recounts the heat equation's tremendous influence on society, showing how French mathematical physicist Joseph Fourier discovered, derived, and solved the equation in the early nineteenth century. Nahin then follows Scottish physicist William Thomson, whose further analysis of Fourier's explorations led to the pioneering trans-Atlantic telegraph cable. This feat of engineering reduced the time it took to send a message across the ocean from weeks to minutes. Readers also learn that Thomson used Fourier's solutions to calculate the age of the earth, and, in a bit of colorful lore, that writer Charles Dickens relied on the trans-Atlantic cable to save himself from a career-damaging scandal. The book's mathematical and scientific explorations can be easily understood by anyone with a basic knowledge of high school calculus and physics, and MATLAB code is included to aid readers who would like to solve the heat equation themselves.

A testament to the intricate links between mathematics and physics, *Hot Molecules, Cold Electrons* offers a fascinating glimpse into the relationship between a formative equation and one of the most important developments in the history of human communication.

9780691191720  
\$24.95 | £20.00  
Hardback  
232 pages | 155.57mm : 234.95mm  
2020

Science / Mechanics  
Princeton University Press

## on gravity

a brief tour of a weighty subject

a. zee



## On Gravity

A Brief Tour of a Weighty Subject

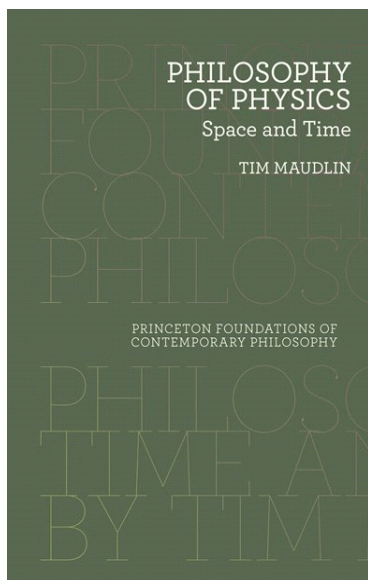
A. Zee

**A pithy yet deep introduction to Einstein's general theory of relativity**

Of the four fundamental forces of nature, gravity might be the least understood and yet the one with which we are most intimate. *On Gravity* combines depth with accessibility to take us on a compelling tour of Einstein's general theory of relativity. A. Zee begins with the discovery of gravity waves, then explains how gravity can be understood in comparison to other classical field theories, presents the idea of curved spacetime, and explores black holes and Hawking radiation. Zee travels as far as the theory reaches, leaving us with tantalizing hints of the unknown, from the intransigence of quantum gravity to the mysteries of dark matter. Infused with Zee's signature warmth and fresh style, *On Gravity* opens a unique pathway to comprehending relativity, gravity, spacetime, and the workings of the universe.

9780691202662  
\$14.95 | £11.99  
Paperback  
192 pages | 139.7mm : 215.9mm  
2020

Science / Gravity  
Princeton University Press



## Philosophy of Physics

Space and Time

Tim Maudlin

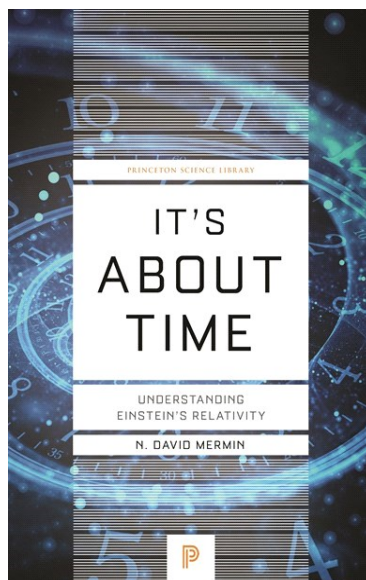
### Philosophical foundations of the physics of space-time

This concise book introduces nonphysicists to the core philosophical issues surrounding the nature and structure of space and time, and is also an ideal resource for physicists interested in the conceptual foundations of space-time theory. Tim Maudlin's broad historical overview examines Aristotelian and Newtonian accounts of space and time, and traces how Galileo's conceptions of relativity and space-time led to Einstein's special and general theories of relativity. Maudlin explains special relativity with enough detail to solve concrete physical problems while presenting general relativity in more qualitative terms. Additional topics include the Twins Paradox, the physical aspects of the Lorentz-FitzGerald contraction, the constancy of the speed of light, time travel, the direction of time, and more.

- Introduces nonphysicists to the philosophical foundations of space-time theory
- Provides a broad historical overview, from Aristotle to Einstein
- Explains special relativity geometrically, emphasizing the intrinsic structure of space-time
- Covers the Twins Paradox, Galilean relativity, time travel, and more
- Requires only basic algebra and no formal knowledge of physics

9780691165714  
\$20.95 | £16.99  
Paperback  
200 pages | 139.7mm : 215.9mm  
2015

Science / Philosophy & Social Aspects  
Princeton Foundations of Contemporary  
Philosophy  
**Princeton University Press**



## It's About Time

Understanding Einstein's Relativity

N. David Mermin

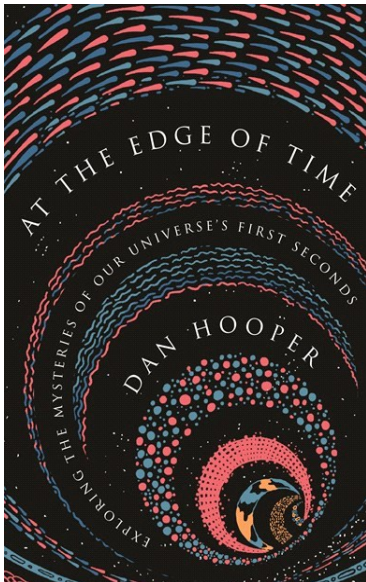
### A readable and entertaining look at how Einstein's special theory of relativity gives us a new understanding of the nature of time

Relativity ought to be an important part of everyone's education. Its subject is time, with which we all think we are familiar. Einstein's special theory of relativity reveals that some of our most intuitive notions about time are shockingly wrong. This clear, lively, and informal exposition of special relativity takes a highly original approach to introduce readers to the true nature of time. It is accessible to anyone who remembers a little high school algebra and elementary geometry. *It's About Time* offers deep insights to curious readers who have no technical scientific background.

9780691218779  
\$16.95 | £12.99  
Paperback  
208 pages | 139.7mm : 215.9mm  
2021

Science / Relativity  
Princeton Science Library  
**Princeton University Press**





## At the Edge of Time

Exploring the Mysteries of Our Universe's First Seconds

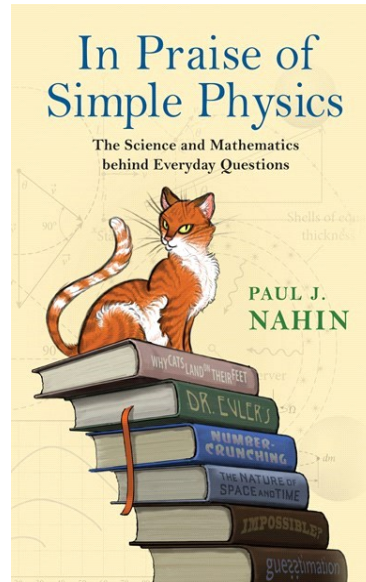
Dan Hooper

**A new look at the first few seconds after the Big Bang—and how research into these moments continues to revolutionize our understanding of our universe**

Scientists in recent decades have made crucial discoveries about how our cosmos evolved over the past 13.8 billion years. But we still know little about what happened in the first seconds after the Big Bang. *At the Edge of Time* focuses on what we have learned and are striving to understand about this mysterious period at the beginning of cosmic history. Delving into the remarkable science of cosmology, Dan Hooper describes many of the extraordinary questions that scientists are asking about the origin and nature of our world. Hooper examines how the Large Hadron Collider and other experiments re-create the conditions of the Big Bang, how we may finally discover the way dark matter was formed during our universe's first moments, and how, with new telescopes, we are lifting the veil on the era of cosmic inflation. *At the Edge of Time* presents an accessible investigation of our universe and its birth.

9780691206424  
\$17.95 | £14.99  
Paperback  
248 pages | 139.7mm : 215.9mm  
2021

Science / Cosmology  
Science Essentials  
Princeton University Press



## In Praise of Simple Physics

The Science and Mathematics behind Everyday Questions

Paul J. Nahin

**Fun puzzles that use physics to explore the wonders of everyday life**

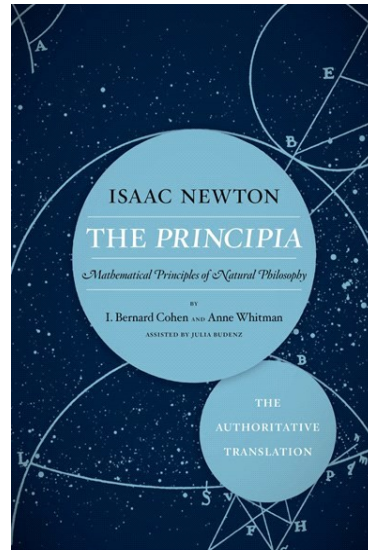
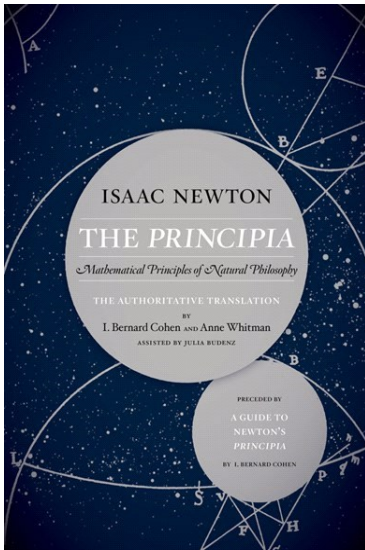
Physics can explain many of the things that we commonly encounter. It can tell us why the night is dark, what causes the tides, and even how best to catch a baseball. With *In Praise of Simple Physics*, popular math and science writer Paul Nahin presents a plethora of situations that explore the science and math behind the wonders of everyday life. Roaming through a diverse range of puzzles, he illustrates how physics shows us ways to wring more energy from renewable sources, to measure the gravity in our car garages, to figure out which of three light switches in the basement controls the light bulb in the attic, and much, much more.

How fast can you travel from London to Paris? How do scientists calculate the energy of an atomic bomb explosion? How do you kick a football so it stays in the air and goes a long way downfield? Nahin begins with simpler problems and progresses to more challenging questions, and his entertaining, accessible, and scientifically and mathematically informed explanations are all punctuated by his trademark humor. Readers are presumed to have some background in beginning differential and integral calculus. Whether you simply have a personal interest in physics' influence in the world or you're an engineering and science student who wants to gain more physics know-how, this book has an intriguing scenario for you.

*In Praise of Simple Physics* proves that if we look carefully at the world around us, physics has answers for the most astonishing day-to-day occurrences.

9780691178523  
\$17.95 | £14.99  
Paperback  
272 pages | 152.4mm : 234.95mm  
2017

Science / Physics  
Princeton Puzzlers  
Princeton University Press



## The Principia: The Authoritative Translation and Guide

Mathematical Principles of Natural Philosophy  
**Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz**

In his monumental 1687 work, *Philosophiæ Naturalis Principia Mathematica*, known familiarly as the *Principia*, Isaac Newton laid out in mathematical terms the principles of time, force, and motion that have guided the development of modern physical science. Even after more than three centuries and the revolutions of Einsteinian relativity and quantum mechanics, Newtonian physics continues to account for many of the phenomena of the observed world, and Newtonian celestial dynamics is used to determine the orbits of our space vehicles.

This authoritative, modern translation by I. Bernard Cohen and Anne Whitman, the first in more than 285 years, is based on the 1726 edition, the final revised version approved by Newton; it includes extracts from the earlier editions, corrects errors found in earlier versions, and replaces archaic English with contemporary prose and up-to-date mathematical forms.

Newton's principles describe acceleration, deceleration, and inertial movement; fluid dynamics; and the motions of the earth, moon, planets, and comets. A great work in itself, the *Principia* also revolutionized the methods of scientific investigation. It set forth the fundamental three laws of motion and the law of universal gravity, the physical principles that account for the Copernican system of the world as emended by Kepler, thus effectively ending controversy concerning the Copernican planetary system.

The illuminating Guide to Newton's *Principia* by I. Bernard Cohen makes this preeminent work truly accessible for today's scientists, scholars, and students.

9780520290884  
 \$34.95 | £27.00  
 Paperback  
 992 pages | 7in : 10in  
 2016

Science / Mathematical Physics  
**University of California Press**

## The Principia: The Authoritative Translation

Mathematical Principles of Natural Philosophy  
**Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz**

In his monumental 1687 work, *Philosophiæ Naturalis Principia Mathematica*, known familiarly as the *Principia*, Isaac Newton laid out in mathematical terms the principles of time, force, and motion that have guided the development of modern physical science. Even after more than three centuries and the revolutions of Einsteinian relativity and quantum mechanics, Newtonian physics continues to account for many of the phenomena of the observed world, and Newtonian celestial dynamics is used to determine the orbits of our space vehicles.

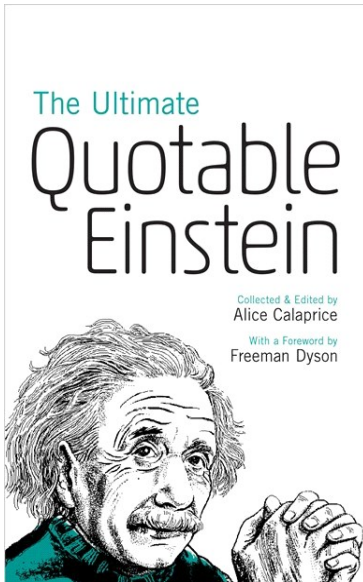
This authoritative, modern translation by I. Bernard Cohen and Anne Whitman, the first in more than 285 years, is based on the 1726 edition, the final revised version approved by Newton; it includes extracts from the earlier editions, corrects errors found in earlier versions, and replaces archaic English with contemporary prose and up-to-date mathematical forms.

Newton's principles describe acceleration, deceleration, and inertial movement; fluid dynamics; and the motions of the earth, moon, planets, and comets. A great work in itself, the *Principia* also revolutionized the methods of scientific investigation. It set forth the fundamental three laws of motion and the law of universal gravity, the physical principles that account for the Copernican system of the world as emended by Kepler, thus effectively ending controversy concerning the Copernican planetary system.

The translation-only edition of this preeminent work is truly accessible for today's scientists, scholars, and students.

9780520290747  
 \$19.95 | £15.99  
 Paperback  
 616 pages | 7in : 10in  
 2016

Science / Mathematical Physics  
**University of California Press**



## The Ultimate Quotable Einstein

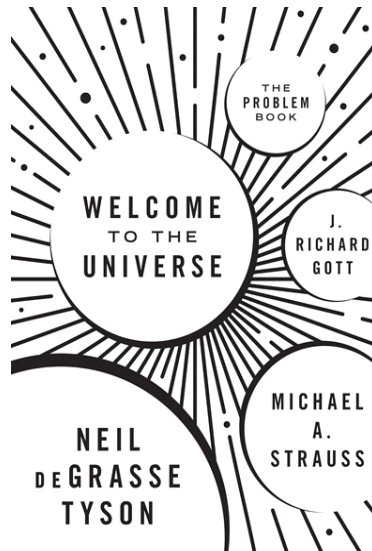
Albert Einstein, Alice Calaprice, Freeman Dyson

This is the definitive edition of the hugely popular collection of Einstein quotations that has sold tens of thousands of copies worldwide and been translated into twenty-five languages.

*The Ultimate Quotable Einstein* features roughly 1,600 quotes in all. This paperback edition includes sections unique to the ultimate collection—"On and to Children," "On Race and Prejudice," and "Einstein's Verses: A Small Selection"—as well as a chronology of Einstein's life and accomplishments, Freeman Dyson's authoritative foreword, and commentary and descriptive source notes by Alice Calaprice.

9780691160146  
\$16.95 | £12.99  
Paperback  
608 pages | 114.3mm : 190.5mm  
2013

Science / Physics  
Princeton University Press



## Welcome to the Universe

The Problem Book

Neil DeGrasse Tyson, Michael A. Strauss, J. Richard Gott

**An essential companion to the *New York Times* bestseller *Welcome to the Universe***

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 non science 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.

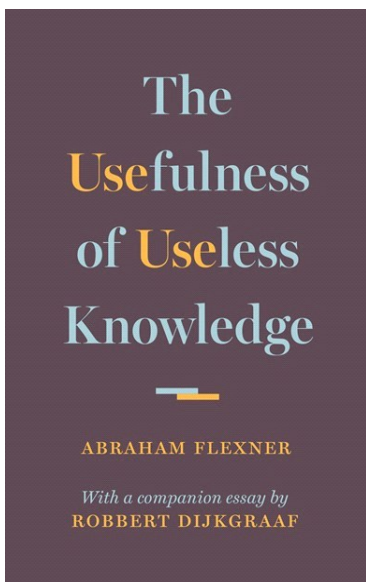
Whether you're a student or teacher, citizen scientist or science enthusiast, your guided tour of the cosmos just got even more hands-on with *Welcome to the Universe: The Problem Book*.

- The essential companion book to the acclaimed bestseller
- Features the problems used in the original introductory astronomy course for non science majors at Princeton University
- Organized according to the structure of *Welcome to the Universe*, empowering readers to explore real astrophysical problems that are conceptually introduced in each chapter
- Problems are designed to stimulate physical insight into the frontier of astrophysics
- Problems develop quantitative skills, yet use math no more advanced than high school algebra
- Problems are often multipart, building critical thinking and quantitative skills and developing readers' insight into what astrophysicists do
- Ideal for course use—either in tandem with *Welcome to the Universe* or as a supplement to courses using standard astronomy textbooks—or self-study
- Tested in the classroom over numerous semesters for more than a decade
- Prefaced with a review of relevant concepts and equations
- Full solutions and explanations are provided, allowing students and other readers to check their own understanding

9780691177816  
\$35.00 | £28.00  
Paperback  
264 pages | 181mm : 258mm  
2017

Science / Astrophysics & Space Science  
Princeton University Press





## The Usefulness of Useless Knowledge

Abraham Flexner, Robbert Dijkgraaf

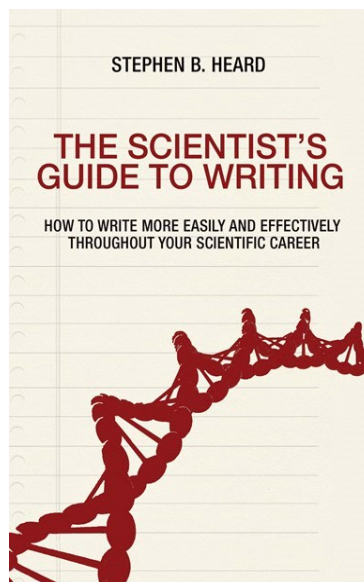
**A short, provocative book about why "useless" science often leads to humanity's greatest technological breakthroughs**

A forty-year tightening of funding for scientific research has meant that resources are increasingly directed toward applied or practical outcomes, with the intent of creating products of immediate value. In such a scenario, it makes sense to focus on the most identifiable and urgent problems, right? Actually, it doesn't. 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 and without concern for applications, 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 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. Dijkgraaf describes how basic research has led to major transformations in the past century and explains why it is an essential precondition of innovation and the first step in social and cultural change. He makes the case that society can achieve deeper understanding and practical progress today and tomorrow only by truly valuing and substantially funding the curiosity-driven "pursuit of useless knowledge" in both the sciences and the humanities.

9780691174761  
\$9.95 | £7.99  
Hardback  
104 pages | 119mm : 183mm  
2017

Science / Philosophy & Social Aspects  
**Princeton University Press**



## The Scientist's Guide to Writing

How to Write More Easily and Effectively throughout Your Scientific Career

Stephen B. Heard

**A concise and accessible primer on the scientific writer's craft**

The ability to write clearly is critical to any scientific career. *The Scientist's Guide to Writing* provides practical advice to help scientists become more effective writers so that their ideas have the greatest possible impact.

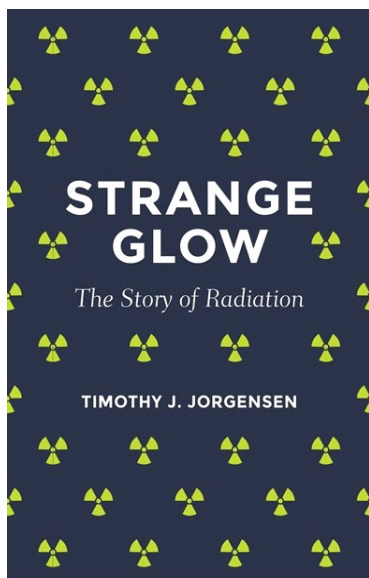
Drawing on his own experience as a scientist, graduate adviser, and editor, Stephen Heard emphasizes that the goal of all scientific writing should be absolute clarity; that good writing takes deliberate practice; and that what many scientists need are not long lists of prescriptive rules but rather direct engagement with their behaviors and attitudes when they write. He combines advice on such topics as how to generate and maintain writing momentum with practical tips on structuring a scientific paper, revising a first draft, handling citations, responding to peer reviews, managing coauthorships, and more.

In an accessible, informal tone, *The Scientist's Guide to Writing* explains essential techniques that students, postdoctoral researchers, and early-career scientists need to write more clearly, efficiently, and easily.

- Emphasizes writing as a process, not just a product
- Encourages habits that improve motivation and productivity
- Explains the structure of the scientific paper and the function of each part
- Provides detailed guidance on submission, review, revision, and publication
- Addresses issues related to coauthorship, English as a second language, and more

9780691170220  
\$21.95 | £16.99  
Paperback  
320 pages | 152.4mm : 234.95mm  
2016

Science / Reference  
**Princeton University Press**



## Strange Glow

The Story of Radiation

Timothy J. Jorgensen

### The fascinating science and history of radiation

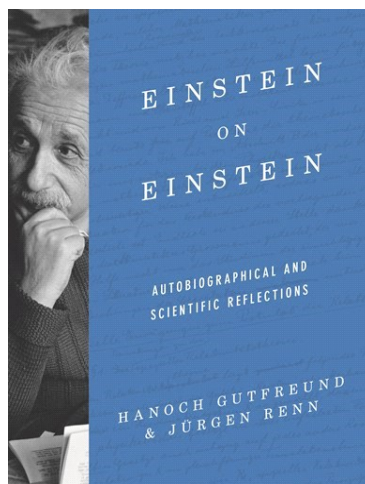
More than ever before, radiation is a part of our modern daily lives. We own radiation-emitting phones, regularly get diagnostic x-rays, such as mammograms, and submit to full-body security scans at airports. We worry and debate about the proliferation of nuclear weapons and the safety of nuclear power plants. But how much do we really know about radiation? And what are its actual dangers? An accessible blend of narrative history and science, *Strange Glow* describes mankind's extraordinary, thorny relationship with radiation, including the hard-won lessons of how radiation helps and harms our health. Timothy Jorgensen explores how our knowledge of and experiences with radiation in the last century can lead us to smarter personal decisions about radiation exposures today.

Jorgensen introduces key figures in the story of radiation—from Wilhelm Roentgen, the discoverer of x-rays, and pioneering radioactivity researchers Marie and Pierre Curie, to Thomas Edison and the victims of the recent Fukushima Daiichi nuclear power plant accident. Tracing the most important events in the evolution of radiation, Jorgensen explains exactly what radiation is, how it produces certain health consequences, and how we can protect ourselves from harm. He also considers a range of practical scenarios such as the risks of radon in our basements, radiation levels in the fish we eat, questions about cell-phone use, and radiation's link to cancer. Jorgensen empowers us to make informed choices while offering a clearer understanding of broader societal issues.

Investigating radiation's benefits and risks, *Strange Glow* takes a remarkable look at how, for better or worse, radiation has transformed our society.

9780691178349  
\$19.95 | £14.99  
Paperback  
512 pages | 152.4mm : 234.95mm  
2017

Science / Radiation  
Princeton University Press



## Einstein on Einstein

Autobiographical and Scientific Reflections

Jürgen Renn, Hanoch Gutfreund

### New perspectives on the iconic physicist's scientific and philosophical formation

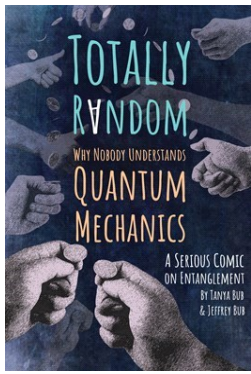
At the end of World War II, Albert Einstein was invited to write his intellectual autobiography for the Library of Living Philosophers. The resulting book was his uniquely personal *Autobiographical Notes*, a classic work in the history of science that explains the development of his ideas with unmatched warmth and clarity. Hanoch Gutfreund and Jürgen Renn introduce Einstein's scientific reflections to today's readers, tracing his intellectual formation from childhood to old age and offering a compelling portrait of the making of a philosopher-scientist.

*Einstein on Einstein* features the full English text of *Autobiographical Notes* along with incisive essays that place Einstein's reflections in the context of the different stages of his scientific life. Gutfreund and Renn draw on Einstein's writings, personal correspondence, and critical writings by Einstein's contemporaries to provide new perspectives on his greatest discoveries. Also included are Einstein's responses to his critics, which shed additional light on his scientific and philosophical worldview. Gutfreund and Renn quote extensively from Einstein's initial, unpublished attempts to formulate his response, and also look at another brief autobiographical text by Einstein, written a few weeks before his death, which is published here for the first time in English.

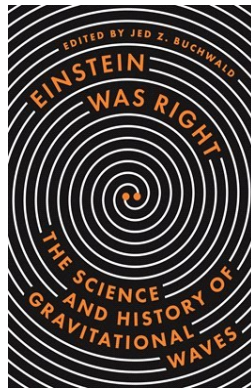
Complete with evocative drawings by artist Laurent Taudin, *Einstein on Einstein* illuminates the iconic physicist's journey to general relativity while situating his revolutionary ideas alongside other astonishing scientific breakthroughs of the twentieth century.

9780691183602  
\$35.00 | £28.00  
Hardback  
216 pages | 203.2mm : 254mm  
2020

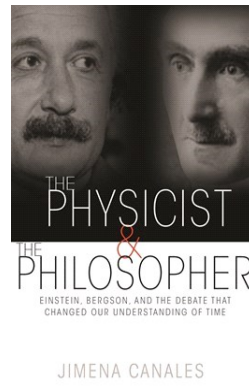
Science / History  
Princeton University Press



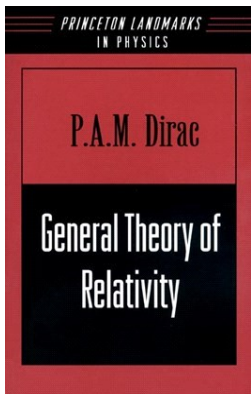
**Totally Random**  
Why Nobody Understands Quantum Mechanics (A Serious Comic on Entanglement)  
**Tanya Bub, Jeffrey Bub**  
9780691176956  
\$22.95 | £17.99  
Paperback | 2018  
Science  
**Princeton University Press**



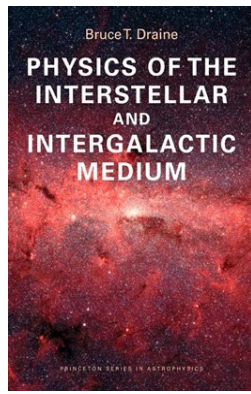
**Einstein Was Right**  
The Science and History of Gravitational Waves  
**Alessandra Buonanno, Kip S. Thorne, Harry Collins, Don Howard, Jed Z. Buchwald, Diana K. Buchwald, Tilman Sauer, Barry C. Barish, Daniel Kennefick, Jürgen Renn**  
9780691194547  
\$35.00 | £28.00  
Hardback | 2020



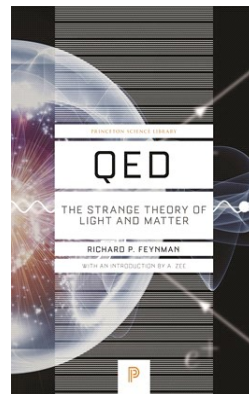
**The Physicist and the Philosopher**  
Einstein, Bergson, and the Debate That Changed Our Understanding of Time  
**Jimena Canales**  
9780691173177  
\$24.95 | £20.00  
Paperback | 2016  
Science  
**Princeton University Press**



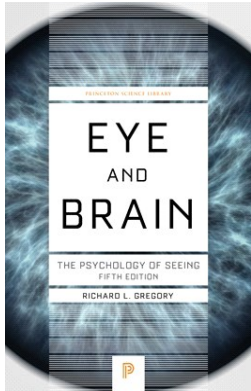
**General Theory of Relativity**  
**P. A.M. Dirac**  
9780691011462  
\$32.95 | £25.00  
Paperback | 1996  
Science  
Princeton Landmarks in Mathematics and Physics  
**Princeton University Press**



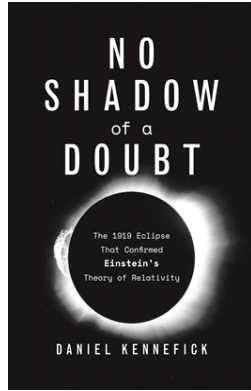
**Physics of the Interstellar and Intergalactic Medium**  
**Bruce T. Draine**  
9780691122144  
\$87.50 | £68.00  
Paperback | 2011  
Science  
Princeton Series in Astrophysics  
**Princeton University Press**



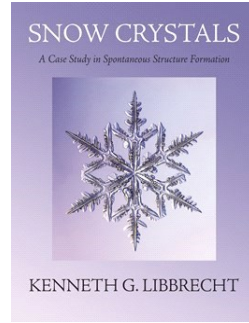
**QED**  
The Strange Theory of Light and Matter  
**Richard P. Feynman, A. Zee**  
9780691164090  
\$18.95 | £14.99  
Paperback | 2014  
Science  
Princeton Science Library  
**Princeton University Press**



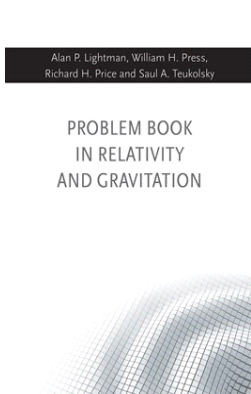
**Eye and Brain**  
The Psychology of Seeing - Fifth Edition  
**Richard L. Gregory**  
9780691165165  
\$19.95 | £14.99  
Paperback | 2015  
Science  
Princeton Science Library  
**Princeton University Press**



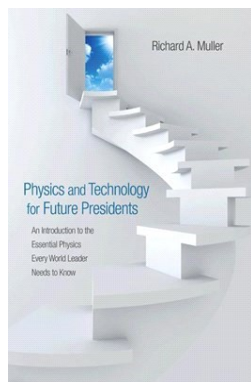
**No Shadow of a Doubt**  
The 1919 Eclipse That Confirmed Einstein's Theory of Relativity  
**Daniel Kennefick**  
9780691183862  
\$29.95 | £25.00  
Hardback | 2019  
Science  
**Princeton University Press**



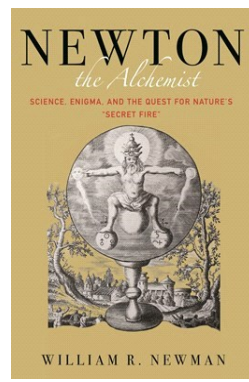
**Snow Crystals**  
A Case Study in Spontaneous Structure Formation  
**Kenneth G. Libbrecht**  
9780691200378  
\$125.00 | £98.00  
Hardback | 2021  
Science  
**Princeton University Press**



**Problem Book in Relativity and Gravitation**  
**Alan P. Lightman, William H. Press, Richard H. Price, Saul A. Teukolsky**  
9780691177786  
\$49.95 | £40.00  
Paperback | 2017  
Science  
**Princeton University Press**

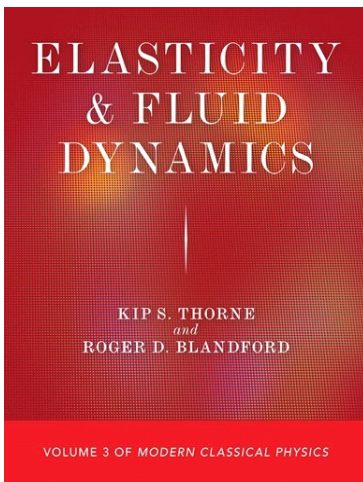


**Physics and Technology for Future Presidents**  
An Introduction to the Essential Physics Every World Leader Needs to Know  
**Richard A. Muller**  
9780691135045  
\$69.95 | £54.00  
Hardback | 2010  
Science  
**Princeton University Press**



**Newton the Alchemist**  
Science, Enigma, and the Quest for Nature's "Secret Fire"  
**William R. Newman**  
9780691174877  
\$39.95 | £30.00  
Hardback | 2018  
Science  
**Princeton University Press**





## Elasticity and Fluid Dynamics

Volume 3 of Modern Classical Physics  
**Kip S. Thorne, Roger D. Blandford**

**A groundbreaking textbook on twenty-first-century fluids and elastic solids and their applications**

Kip Thorne and Roger Blandford's monumental *Modern Classical Physics* is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject.

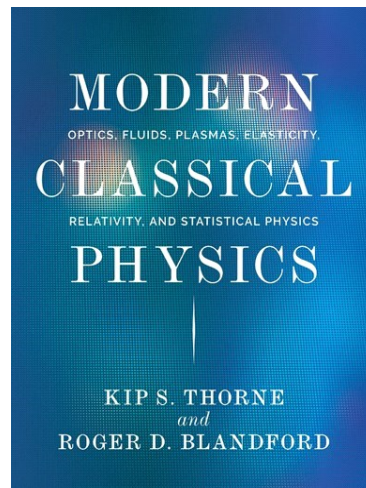
*Elasticity and Fluid Dynamics* provides an essential introduction to these subjects. Fluids and elastic solids are everywhere—from Earth's crust and skyscrapers to ocean currents and airplanes. They are central to modern physics, astrophysics, the Earth sciences, biophysics, medicine, chemistry, engineering, and technology, and this centrality has intensified in recent years—so much so that a basic understanding of the behavior of elastic solids and fluids should be part of the repertoire of every physicist and engineer and almost every other natural scientist. While both elasticity and fluid dynamics involve continuum physics and use similar mathematical tools and modes of reasoning, each subject can be readily understood without the other, and the book allows them to be taught independently, with the first two chapters introducing and covering elasticity and the last six doing the same for fluid dynamics. The book also can serve as supplementary reading for many other courses, including in astrophysics, geophysics, and aerodynamics.

- Includes many exercise problems
- Features color figures, suggestions for further reading, extensive cross-references, and a detailed index
- Optional "Track 2" sections make this an ideal book for a one-quarter or one-semester course in elasticity, fluid dynamics, or continuum physics
- An online illustration package is available to professors

The five volumes, which are available individually as paperbacks and ebooks, are *Statistical Physics*; *Optics*; *Elasticity and Fluid Dynamics*; *Plasma Physics*; and *Relativity and Cosmology*.

9780691207346  
 \$50.00 | £40.00  
 Paperback  
 480 pages | 203.2mm : 254mm  
 2021

Science / Physics  
**Princeton University Press**



## Modern Classical Physics

Optics, Fluids, Plasmas, Elasticity, Relativity,  
 and Statistical Physics  
**Kip S. Thorne, Roger D. Blandford**

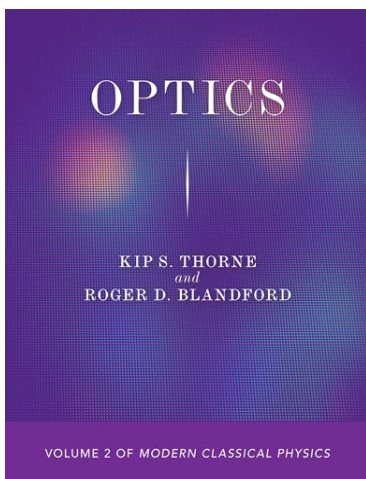
**A groundbreaking text and reference book on twenty-first-century classical physics and its applications**

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. Growing out of a full-year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost three decades, this book is designed to broaden the training of physicists. 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.

- Presents all the major fields of classical physics except three prerequisites: classical mechanics, electromagnetism, and elementary thermodynamics
- Elucidates the interconnections between diverse fields and explains their shared concepts and tools
- Focuses on fundamental concepts and modern, real-world applications
- Takes applications from fundamental, experimental, and applied physics; astrophysics and cosmology; geophysics, oceanography, and meteorology; biophysics and chemical physics; engineering and optical science and technology; and information science and technology
- Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations
- Features hundreds of color figures, some five hundred exercises, extensive cross-references, and a detailed index
- An online illustration package is available

9780691159027  
 \$125.00 | £98.00  
 Hardback  
 1,552 pages | 203.2mm : 254mm  
 2017

Science / Physics  
**Princeton University Press**



## Optics

Volume 2 of Modern Classical Physics  
**Kip S. Thorne, Roger D. Blandford**

**A groundbreaking textbook on twenty-first-century waves of all sorts and their applications**

Kip Thorne and Roger Blandford's monumental *Modern Classical Physics* is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject.

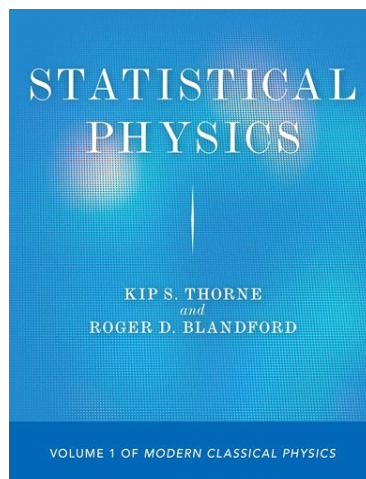
*Optics* is an essential introduction to a resurgent subject. "Optics" originally referred to the study of light, but today the field encompasses all types of waves, including electromagnetic waves, from gamma rays to radio waves; gravitational waves; waves in solids, fluids, and plasmas; and quantum waves. The past few decades have seen revolutions in optics—amazing advances in nonlinear optics technology, a growing understanding of optical phenomena throughout the natural world, and an increasing appreciation of the wide-ranging applicability of optics' central principles. *Optics* shows how and why this subject—which was once a standard part of physics curricula—should again be routinely taught to physics students, as well as to students in engineering, computer science, and the natural sciences.

- Includes many exercise problems
- Features color figures, suggestions for further reading, extensive cross-references, and a detailed index
- Optional "Track 2" sections make this an ideal book for a one-quarter, half-semester, or full-semester course
- An online illustration package is available to professors

The five volumes, which are available individually as paperbacks and ebooks, are *Statistical Physics*; *Optics*; *Elasticity and Fluid Dynamics*; *Plasma Physics*; and *Relativity and Cosmology*.

9780691207360  
\$45.00 | £35.00  
Paperback  
272 pages | 203.2mm : 254mm  
2021

Science / Physics  
**Princeton University Press**



## Statistical Physics

Volume 1 of Modern Classical Physics  
**Kip S. Thorne, Roger D. Blandford**

**A groundbreaking textbook on twenty-first-century statistical physics and its applications**

Kip Thorne and Roger Blandford's monumental *Modern Classical Physics* is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject.

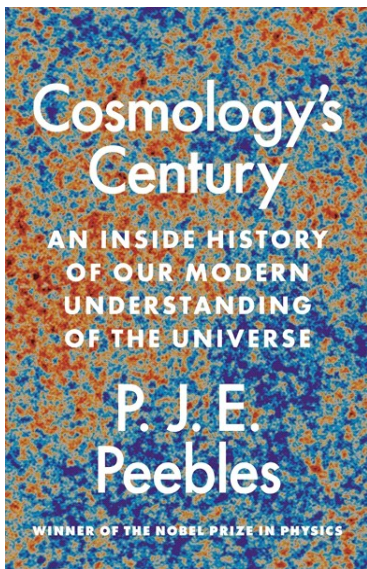
*Statistical Physics* is an essential introduction that is different from others on the subject because of its unique approach, which is coordinate-independent and geometric; embraces and elucidates the close quantum-classical connection and the relativistic and Newtonian domains; and demonstrates the power of statistical techniques—particularly statistical mechanics—by presenting applications not only to the usual kinds of things, such as gases, liquids, solids, and magnetic materials, but also to a much wider range of phenomena, including black holes, the universe, information and communication, and signal processing amid noise.

- Includes many exercise problems
- Features color figures, suggestions for further reading, extensive cross-references, and a detailed index
- Optional "Track 2" sections make this an ideal book for a one-quarter, half-semester, or full-semester course
- An online illustration package is available to professors

The five volumes, which are available individually as paperbacks and ebooks, are *Statistical Physics*; *Optics*; *Elasticity and Fluid Dynamics*; *Plasma Physics*; and *Relativity and Cosmology*.

9780691206127  
\$50.00 | £40.00  
Paperback  
408 pages | 203.2mm : 254mm  
2021

Science / Physics  
**Princeton University Press**



## Cosmology's Century

An Inside History of Our Modern Understanding of the Universe

**P. J. E. Peebles**

**From Nobel Prize–winning physicist P. J. E. Peebles, the story of cosmology from Einstein to today**

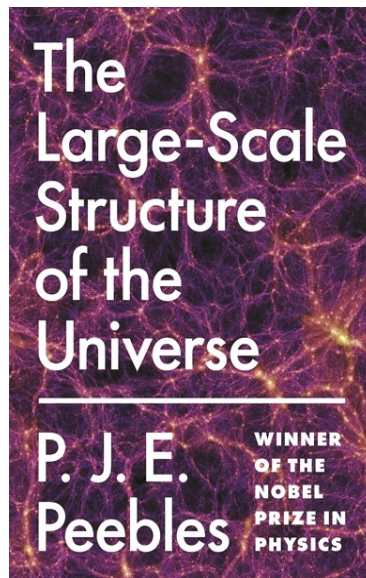
Modern cosmology began a century ago with Albert Einstein's general theory of relativity and his notion of a homogenous, philosophically satisfying cosmos. *Cosmology's Century* is the story of how generations of scientists built on these thoughts and many new measurements to arrive at a well-tested physical theory of the structure and evolution of our expanding universe.

In this landmark book, one of the world's most esteemed theoretical cosmologists offers an unparalleled personal perspective on how the field developed. P. J. E. Peebles was at the forefront of many of the greatest discoveries of the past century, making fundamental contributions to our understanding of the presence of helium and microwave radiation from the hot big bang, the measures of the distribution and motion of ordinary matter, and the new kind of dark matter that allows us to make sense of these results. Taking readers from the field's beginnings, Peebles describes how scientists working in independent directions found themselves converging on a theory of cosmic evolution interesting enough to warrant the rigorous testing it passes so well. He explores the major advances—some inspired by remarkable insights or perhaps just lucky guesses—as well as the wrong turns taken and the roads not explored. He shares recollections from major players in this story and provides a rare, inside look at how natural science is really done.

A monumental work, *Cosmology's Century* also emphasizes where the present theory is incomplete, suggesting exciting directions for continuing research.

9780691196022  
\$35.00 | £28.00  
Hardback  
440 pages | 155.57mm : 234.95mm  
2020

Science / Cosmology  
**Princeton University Press**



## The Large-Scale Structure of the Universe

**P. J. E. Peebles**

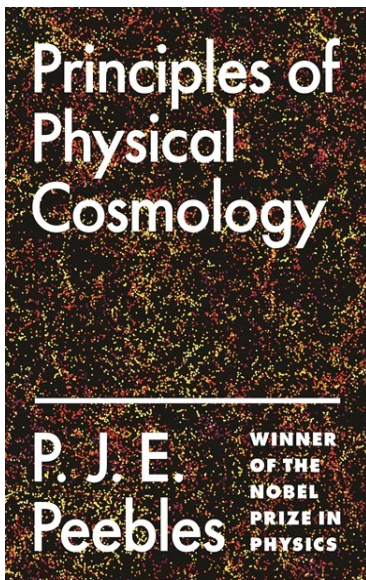
**The classic account of the structure and evolution of the early universe from Nobel Prize–winning physicist P. J. E. Peebles**

An instant landmark on its publication, *The Large-Scale Structure of the Universe* remains the essential introduction to this vital area of research. Written by one of the world's most esteemed theoretical cosmologists, it provides an invaluable historical introduction to the subject, and an enduring overview of key methods, statistical measures, and techniques for dealing with cosmic evolution. With characteristic clarity and insight, P. J. E. Peebles focuses on the largest known structures—galaxy clusters—weighing the empirical evidence of the nature of clustering and the theories of how it evolves in an expanding universe. A must-have reference for students and researchers alike, this edition of *The Large-Scale Structure of the Universe* introduces a new generation of readers to a classic text in modern cosmology.

9780691209838  
\$60.00 | £48.00  
Paperback  
448 pages | 155.57mm : 234.95mm  
2020

Science / Astrophysics & Space Science  
Princeton Series in Physics  
**Princeton University Press**





## Principles of Physical Cosmology

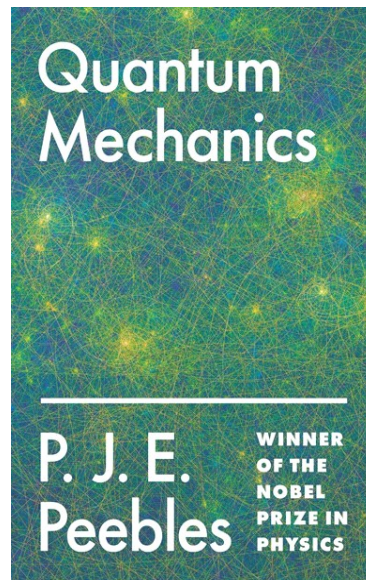
P. J. E. Peebles

**The classic introduction to physical cosmology from Nobel Prize-winning physicist P. J. E. Peebles**

*Principles of Physical Cosmology* is the essential introduction to this critical area of modern physics, written by a leading pioneer who has shaped the course of the field for decades. P. J. E. Peebles provides an authoritative overview of the field, showing how observation has combined with theory to establish the science of physical cosmology. He presents the elements of physical cosmology, including the history of the discovery of the expanding universe; surveys the cosmological tests that measure the geometry of space-time, with a discussion of general relativity as the basis for these tests; and reviews the origin of galaxies and the large-scale structure of the universe. Now featuring Peebles's 2019 Nobel lecture, *Principles of Physical Cosmology* remains an indispensable reference for students and researchers alike.

9780691209814  
\$75.00 | £58.00  
Paperback  
774 pages | 155.57mm : 234.95mm  
2020

Science / Astrophysics & Space Science  
Princeton Series in Physics  
**Princeton University Press**



## Quantum Mechanics

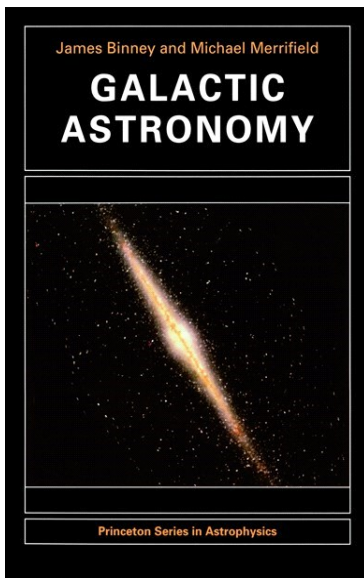
P. J. E. Peebles

**The classic textbook on quantum mechanics from Nobel Prize-winning physicist P. J. E. Peebles**

This book explains the often counterintuitive physics of quantum mechanics, unlocking this key area of physics for students by enabling them to work through detailed applications of general concepts and ideas. P. J. E. Peebles states general principles first in terms of wave mechanics and then in the standard abstract linear space formalism. He offers a detailed discussion of measurement theory—an essential feature of quantum mechanics—and emphasizes the art of numerical estimates. Along the way, Peebles provides a wealth of physical examples together with numerous problems, some easy, some challenging, but all of them selected because they are physically interesting. *Quantum Mechanics* is an essential resource for advanced undergraduates and beginning graduate students in physics.

9780691209821  
\$80.00 | £62.00  
Paperback  
432 pages | 155.57mm : 234.95mm  
2020

Science / Quantum Theory  
**Princeton University Press**



## Galactic Astronomy

James Binney, Michael Merrifield

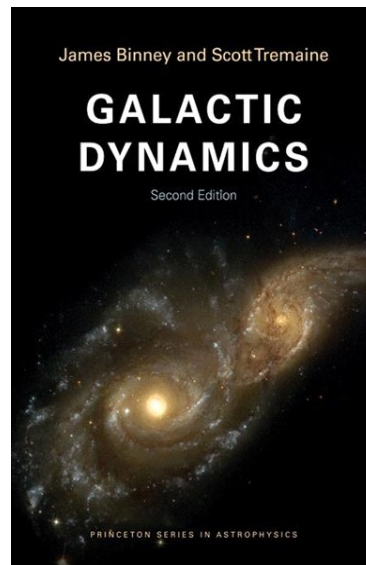
This is the definitive treatment of the phenomenology of galaxies--a clear and comprehensive volume that takes full account of the extraordinary recent advances in the field. The book supersedes the classic text *Galactic Astronomy* that James Binney wrote with Dimitri Mihalas, and complements *Galactic Dynamics* by Binney and Scott Tremaine. It will be invaluable to researchers and is accessible to any student who has a background in undergraduate physics.

The book draws on observations both of our own galaxy, the Milky Way, and of external galaxies. The two sources are complementary, since the former tends to be highly detailed but difficult to interpret, while the latter is typically poorer in quality but conceptually simpler to understand. Binney and Merrifield introduce all astronomical concepts necessary to understand the properties of galaxies, including coordinate systems, magnitudes and colors, the phenomenology of stars, the theory of stellar and chemical evolution, and the measurement of astronomical distances. The book's core covers the phenomenology of external galaxies, star clusters in the Milky Way, the interstellar media of external galaxies, gas in the Milky Way, the structure and kinematics of the stellar components of the Milky Way, and the kinematics of external galaxies.

Throughout, the book emphasizes the observational basis for current understanding of galactic astronomy, with references to the original literature. Offering both new information and a comprehensive view of its subject, it will be an indispensable source for professionals, as well as for graduate students and advanced undergraduates.

9780691025650  
\$105.00 | £82.00  
Paperback  
816 pages | 160mm : 235mm  
1998

Science / Astrophysics & Space Science  
Princeton Series in Astrophysics  
Princeton University Press



## Galactic Dynamics

Second Edition

James Binney, Scott Tremaine

Since it was first published in 1987, *Galactic Dynamics* has become the most widely used advanced textbook on the structure and dynamics of galaxies and one of the most cited references in astrophysics. Now, in this extensively revised and updated edition, James Binney and Scott Tremaine describe the dramatic recent advances in this subject, making *Galactic Dynamics* the most authoritative introduction to galactic astrophysics available to advanced undergraduate students, graduate students, and researchers.

Every part of the book has been thoroughly overhauled, and many sections have been completely rewritten. Many new topics are covered, including N-body simulation methods, black holes in stellar systems, linear stability and response theory, and galaxy formation in the cosmological context. Binney and Tremaine, two of the world's leading astrophysicists, use the tools of theoretical physics to describe how galaxies and other stellar systems work, succinctly and lucidly explaining theoretical principles and their applications to observational phenomena. They provide readers with an understanding of stellar dynamics at the level needed to reach the frontiers of the subject.

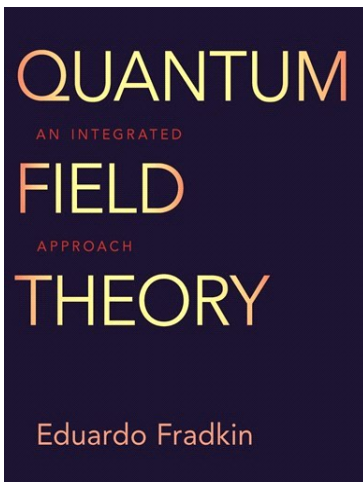
This new edition of the classic text is the definitive introduction to the field.

?

- A complete revision and update of one of the most cited references in astrophysics
- Provides a comprehensive description of the dynamical structure and evolution of galaxies and other stellar systems
- Serves as both a graduate textbook and a resource for researchers
- Includes 20 color illustrations, 205 figures, and more than 200 problems
- Covers the gravitational N-body problem, hierarchical galaxy

9780691130279  
\$105.00 | £82.00  
Paperback  
920 pages | 152.4mm : 234.95mm  
2008

Science / Astrophysics & Space Science  
Princeton Series in Astrophysics  
Princeton University Press



## Quantum Field Theory

An Integrated Approach  
Eduardo Fradkin

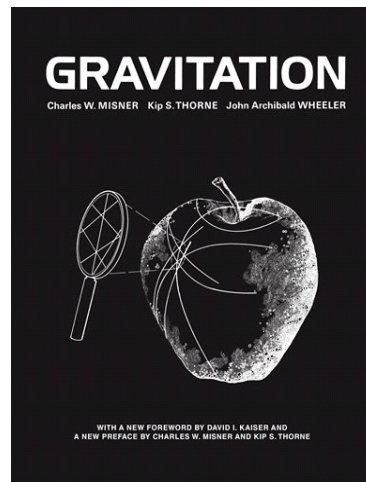
**The only graduate-level textbook on quantum field theory that fully integrates perspectives from high-energy, condensed-matter, and statistical physics**

Quantum field theory was originally developed to describe quantum electrodynamics and other fundamental problems in high-energy physics, but today has become an invaluable conceptual and mathematical framework for addressing problems across physics, including in condensed-matter and statistical physics. With this expansion of applications has come a new and deeper understanding of quantum field theory—yet this perspective is still rarely reflected in teaching and textbooks on the subject. Developed from a year-long graduate course Eduardo Fradkin has taught for years to students of high-energy, condensed-matter, and statistical physics, this comprehensive textbook provides a fully “multicultural” approach to quantum field theory, covering the full breadth of its applications in one volume.

- Brings together perspectives from high-energy, condensed-matter, and statistical physics in both the main text and exercises
- Takes students from basic techniques to the frontiers of physics
- Pays special attention to the relation between measurements and propagators and the computation of cross sections and response functions
- Focuses on renormalization and the renormalization group, with an emphasis on fixed points, scale invariance, and their role in quantum field theory and phase transitions
- Other topics include non-perturbative phenomena, anomalies, and conformal invariance
- Features numerous examples and extensive problem sets
- Also serves as an invaluable resource for researchers

9780691149080  
\$85.00 | £66.00  
Hardback  
760 pages | 203.2mm : 254mm  
2021

Science / Quantum Theory  
Princeton University Press



## Gravitation

Charles W. Misner, Kip S. Thorne, John Archibald Wheeler, David I. Kaiser

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. Upon publication, *Science* called it “a pedagogic masterpiece,” and it has since become a classic, considered essential reading for every serious student and researcher in the field of relativity. 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.

With an emphasis on geometric interpretation, this masterful and comprehensive book introduces the theory of relativity; describes physical applications, from stars to black holes and gravitational waves; and portrays the field’s frontiers. The book also offers a unique, alternating, two-track pathway through the subject. Material focusing on basic physical ideas is designated as Track 1 and formulates an appropriate one-semester graduate-level course. The remaining Track 2 material provides a wealth of advanced topics instructors can draw on for a two-semester course, with Track 1 sections serving as prerequisites.

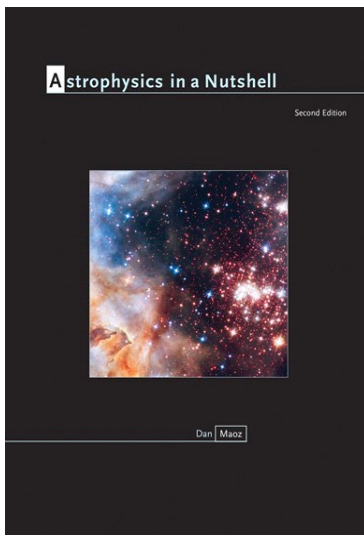
This must-have reference for students and scholars of relativity includes a new preface by David Kaiser, reflecting on the history of the book’s publication and reception, and a new introduction by Charles Misner and Kip Thorne, discussing exciting developments in the field since the book’s original publication.

- The book teaches students to:
- Grasp the laws of physics in flat and curved spacetime
- Predict orders of magnitude
- Calculate using the principal tools of modern geometry
- Understand Einstein’s geometric framework for physics
- Explore applications, including neutron stars, Schwarzschild and Kerr black holes, gravitational collapse, gravitational waves, cosmology, and so much more

9780691177793  
\$60.00 | £48.00  
Hardback  
1,280 pages | 203.2mm : 254mm  
2017

Science / Gravity  
Princeton University Press





## Astrophysics in a Nutshell

Second Edition

Dan Maoz

**The ideal one-semester astrophysics introduction for science undergraduates—now expanded and fully updated**

Winner of the American Astronomical Society's Chambliss Award, *Astrophysics in a Nutshell* has become the text of choice in astrophysics courses for science majors at top universities in North America and beyond. In this expanded and fully updated second edition, the book gets even better, with a new chapter on extrasolar planets; a greatly expanded chapter on the interstellar medium; fully updated facts and figures on all subjects, from the observed properties of white dwarfs to the latest results from precision cosmology; and additional instructive problem sets. Throughout, the text features the same focused, concise style and emphasis on physics intuition that have made the book a favorite of students and teachers.

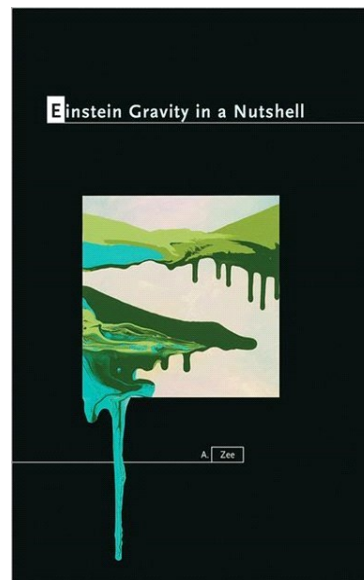
Written by Dan Maoz, a leading active researcher, and designed for advanced undergraduate science majors, *Astrophysics in a Nutshell* is a brief but thorough introduction to the observational data and theoretical concepts underlying modern astronomy. Generously illustrated, it covers the essentials of modern astrophysics, emphasizing the common physical principles that govern astronomical phenomena, and the interplay between theory and observation, while also introducing subjects at the forefront of modern research, including black holes, dark matter, dark energy, and gravitational lensing.

In addition to serving as a course textbook, *Astrophysics in a Nutshell* is an ideal review for a qualifying exam and a handy reference for teachers and researchers.

- The most concise and current astrophysics textbook for science majors—now expanded and fully updated with the latest research results
- Contains a broad and well-balanced selection of traditional and current topics
- Uses simple, short, and clear derivations of physical results
- Trains students in the essential skills of order-of-magnitude analysis
- Features a new chapter on extrasolar planets, including discovery techniques
- Includes new and expanded sections and problems on the physics of shocks, supernova remnants, cosmic-ray acceleration, white dwarf properties, baryon acoustic oscillations, and more

9780691164793  
\$85.00 | £66.00  
Hardback  
312 pages | 177.8mm : 254mm  
2016

Science / Astrophysics & Space Science  
In a Nutshell  
Princeton University Press



## Einstein Gravity in a Nutshell

A. Zee

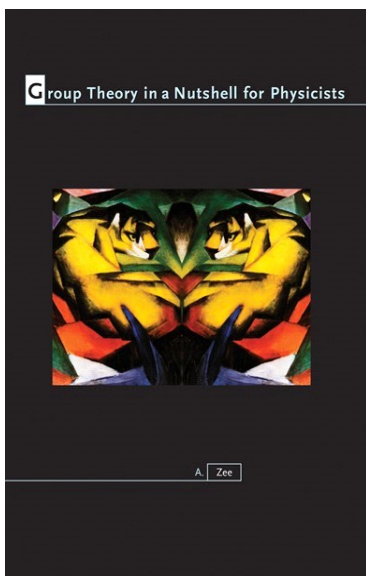
**An ideal introduction to Einstein's general theory of relativity**

This unique textbook provides an accessible introduction to Einstein's general theory of relativity, a subject of breathtaking beauty and supreme importance in physics. With his trademark blend of wit and incisiveness, A. Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today, including de Sitter and anti-de Sitter spacetimes, Kaluza-Klein theory, and brane worlds. Unlike other books on Einstein gravity, this book emphasizes the action principle and group theory as guides in constructing physical theories. Zee treats various topics in a spiral style that is easy on beginners, and includes anecdotes from the history of physics that will appeal to students and experts alike. He takes a friendly approach to the required mathematics, yet does not shy away from more advanced mathematical topics such as differential forms. The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation. The ideal textbook for undergraduate and graduate students, *Einstein Gravity in a Nutshell* also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism. It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere.

- Provides an accessible introduction to Einstein's general theory of relativity
- Guides readers from Newtonian mechanics to the frontiers of modern research
- Emphasizes symmetry and the Einstein-Hilbert action
- Covers topics not found in standard textbooks on Einstein gravity
- Includes interesting historical asides
- Features numerous exercises and detailed appendices
- Ideal for students, physicists, and scientifically minded lay readers
- Solutions manual (available only to teachers)

9780691145587  
\$99.95 | £78.00  
Hardback  
888 pages | 177.8mm : 254mm  
2013

Science / Relativity  
In a Nutshell  
Princeton University Press



## Group Theory in a Nutshell for Physicists

A. Zee

**A concise, modern textbook on group theory written especially for physicists**

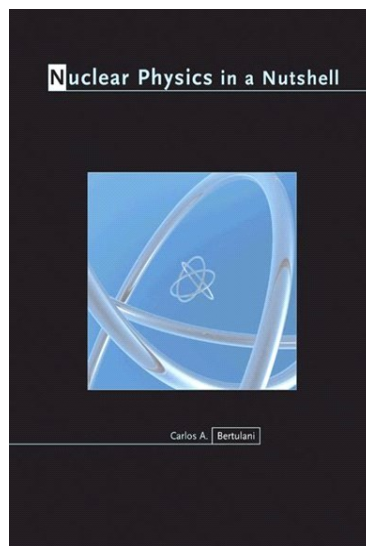
Although group theory is a mathematical subject, it is indispensable to many areas of modern theoretical physics, from atomic physics to condensed matter physics, particle physics to string theory. In particular, it is essential for an understanding of the fundamental forces. Yet until now, what has been missing is a modern, accessible, and self-contained textbook on the subject written especially for physicists.

*Group Theory in a Nutshell for Physicists* fills this gap, providing a user-friendly and classroom-tested text that focuses on those aspects of group theory physicists most need to know. From the basic intuitive notion of a group, A. Zee takes readers all the way up to how theories based on gauge groups could unify three of the four fundamental forces. He also includes a concise review of the linear algebra needed for group theory, making the book ideal for self-study.

- Provides physicists with a modern and accessible introduction to group theory
- Covers applications to various areas of physics, including field theory, particle physics, relativity, and much more
- Topics include finite group and character tables; real, pseudoreal, and complex representations; Weyl, Dirac, and Majorana equations; the expanding universe and group theory; grand unification; and much more
- The essential textbook for students and an invaluable resource for researchers
- Features a brief, self-contained treatment of linear algebra
- An online illustration package is available to professors
- Solutions manual (available only to professors)

9780691162690  
\$90.00 | £70.00  
Hardback  
608 pages | 186mm : 268mm  
2016

Science / Physics  
In a Nutshell  
Princeton University Press



## Nuclear Physics in a Nutshell

Carlos A. Bertulani

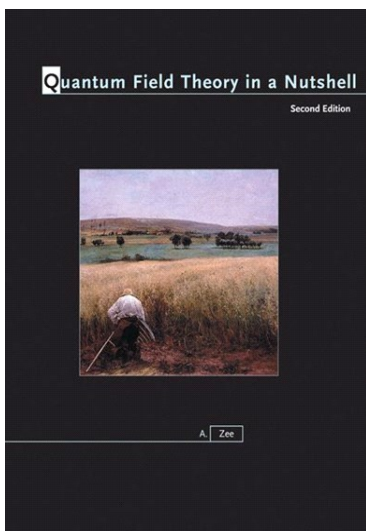
*Nuclear Physics in a Nutshell* provides a clear, concise, and up-to-date overview of the atomic nucleus and the theories that seek to explain it. Bringing together a systematic explanation of hadrons, nuclei, and stars for the first time in one volume, Carlos A. Bertulani provides the core material needed by graduate and advanced undergraduate students of physics to acquire a solid understanding of nuclear and particle science. *Nuclear Physics in a Nutshell* is the definitive new resource for anyone considering a career in this dynamic field.

The book opens by setting nuclear physics in the context of elementary particle physics and then shows how simple models can provide an understanding of the properties of nuclei, both in their ground states and excited states, and also of the nature of nuclear reactions. It then describes: nuclear constituents and their characteristics; nuclear interactions; nuclear structure, including the liquid-drop model approach, and the nuclear shell model; and recent developments such as the nuclear mean-field and the nuclear physics of very light nuclei, nuclear reactions with unstable nuclear beams, and the role of nuclear physics in energy production and nucleosynthesis in stars.

Throughout, discussions of theory are reinforced with examples that provide applications, thus aiding students in their reading and analysis of current literature. Each chapter closes with problems, and appendixes address supporting technical topics.

9780691125053  
\$99.95 | £78.00  
Hardback  
488 pages | 177.8mm : 254mm  
2007

Science / Nuclear Physics  
In a Nutshell  
Princeton University Press



# Quantum Field Theory in a Nutshell

Second Edition

A. Zee

A fully updated edition of the classic text by acclaimed physicist A. Zee

Since it was first published, *Quantum Field Theory in a Nutshell* has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available.

This expanded edition features several additional chapters, as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations for amplitudes with complex momenta, and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendices, solutions to selected exercises, and suggestions for further reading.

- The most accessible and comprehensive introductory textbook available
- Features a fully revised, updated, and expanded text
- Covers the latest exciting advances in the field
- Includes new exercises
- Offers a one-of-a-kind resource for students and researchers

Leading universities that have adopted this book include:

- Arizona State University
- Boston University
- Brandeis University
- Brown University
- California Institute of Technology
- Carnegie Mellon
- College of William & Mary
- Cornell
- Harvard University
- Massachusetts Institute of Technology

9780691140346  
\$85.00 | £66.00  
Hardback  
608 pages | 177.8mm : 254mm  
2010

Science / Quantum Theory  
In a Nutshell  
Princeton University Press



# String Theory in a Nutshell

Second Edition

Elias Kiritsis

The essential introduction to modern string theory—now fully expanded and revised

*String Theory in a Nutshell* is the definitive introduction to modern string theory. Written by one of the world's leading authorities on the subject, this concise and accessible book starts with basic definitions and guides readers from classic topics to the most exciting frontiers of research today. It covers perturbative string theory, the unity of string interactions, black holes and their microscopic entropy, the AdS/CFT correspondence and its applications, matrix model tools for string theory, and more. It also includes 600 exercises and serves as a self-contained guide to the literature.

This fully updated edition features an entirely new chapter on flux compactifications in string theory, and the chapter on AdS/CFT has been substantially expanded by adding many applications to diverse topics. In addition, the discussion of conformal field theory has been extensively revised to make it more student-friendly.

- The essential one-volume reference for students and researchers in theoretical high-energy physics
- Now fully expanded and revised
- Provides expanded coverage of AdS/CFT and its applications, namely the holographic renormalization group, holographic theories for Yang-Mills and QCD, nonequilibrium thermal physics, finite density physics, and entanglement entropy
- Ideal for mathematicians and physicists specializing in theoretical cosmology, QCD, and novel approaches to condensed matter systems
- An online illustration package is available to professors

9780691155791  
\$95.00 | £74.00  
Hardback  
888 pages | 177.8mm : 254mm  
2019

Science / Physics  
In a Nutshell  
Princeton University Press



**Wizards, Aliens, and Starships**

Physics and Math in Fantasy and Science Fiction  
Charles L. Adler  
\$19.95 | £14.99

9780691196374 | 2019 | PB  
Princeton University Press

**Wizards, Aliens, and Starships**

Physics and Math in Fantasy and Science Fiction  
Charles L. Adler  
\$29.95 | £25.00

9780691147154 | 2014 | HB  
Princeton University Press

**Particle or Wave**

The Evolution of the Concept of Matter in Modern Physics  
Charis Anastopoulos  
\$47.95 | £38.00

9780691135120 | 2008 | HB  
Princeton University Press

**Mathematics for Physics and Physicists**

Walter Appel  
\$105.00 | £82.00

9780691131023 | 2007 | HB  
Princeton University Press

**Supernovae and Nucleosynthesis**

An Investigation of the History of Matter, from the Big Bang to the Present  
David Arnett  
\$99.95 | £78.00

9780691011479 | 1996 | PB  
Princeton Series in Astrophysics  
Princeton University Press

**Unsolved Problems in Astrophysics**

John N. Bahcall, Jeremiah P. Ostriker  
\$78.50 | £62.00

9780691016061 | 1997 | PB  
Princeton Series in Astrophysics  
Princeton University Press

**What Does a Black Hole Look Like?**

Charles D. Bailyn  
\$35.00 | £30.00

9780691148823 | 2014 | HB  
Princeton Frontiers in Physics  
Oxford University Press

**The Physics of Neutrinos**

Vernon Barger, Danny Marfatta, Kerry Whisnant  
\$120.00 | £94.00

9780691128535 | 2012 | HB  
Princeton University Press

**The Everett Interpretation of Quantum Mechanics**

Collected Works 1955-1980 with Commentary  
Jeffrey A. Barrett, Peter Byrne  
\$90.00 | £70.00

9780691145075 | 2012 | HB  
Princeton University Press

**Asteroseismic Data Analysis**

Foundations and Techniques  
Sarbani Basu, William J. Chaplin  
\$75.00 | £58.00

9780691162928 | 2017 | HB  
Princeton Series in Modern Observational Astronomy  
Princeton University Press

**Fly Me to the Moon**

An Insider's Guide to the New Science of Space Travel  
Edward Belbruno, Neil deGrasse Tyson  
\$19.95 | £14.99

9780691128221 | 2007 | HB  
Princeton University Press

**Renormalization Group**

Giuseppe Benfatto, Giovanni Gallavotti  
\$78.50 | £62.00

9780691044460 | 1995 | PB  
Physics Notes  
Princeton University Press

**Beyond UFOs**

The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future  
Jeffrey Bennett  
\$22.95 | £17.99

9780691149882 | 2011 | PB  
Princeton University Press

**Beyond UFOs**

The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future  
Jeffrey Bennett  
\$26.95 | £20.00

9780691135496 | 2008 | HB  
Princeton University Press

**What Is Relativity?**

An Intuitive Introduction to Einstein's Ideas, and Why They Matter  
Jeffrey Bennett  
\$18.95 | £14.99

9780231167277 | 2016 | PB  
Columbia University Press

**What Is Relativity?**

An Intuitive Introduction to Einstein's Ideas, and Why They Matter  
Jeffrey Bennett  
\$25.95 | £20.00

9780231167260 | 2014 | HB  
Columbia University Press

**Man Discovers the Galaxies**

Richard Berendzen, Richard Hart, Daniel Seeley  
\$42.00 | £32.00

9780231058278 | 1984 | PB  
Columbia University Press

**Principles of Laser Spectroscopy and Quantum Optics**

Paul R. Berman, Vladimir S. Malinovsky  
\$115.00 | £90.00

9780691140568 | 2011 | HB  
Princeton University Press

**Topological Insulators and Topological Superconductors**

B. Andrei Bernevig, Taylor L. Hughes  
\$97.50 | £76.00

9780691151755 | 2013 | HB  
Princeton University Press

**What Are Gamma-Ray Bursts?**

Joshua S. Bloom  
\$95.00 | £28.00

9780691145570 | 2011 | PB  
Princeton Frontiers in Physics  
Oxford University Press

**Modern Astrodynamics**

Fundamentals and Perturbation Methods  
Victor R. Bond, Mark C. Allman  
\$130.00 | £100.00

9780691044590 | 1996 | HB  
Princeton University Press

**The Key to Newton's Dynamics**

The Kepler Problem and the Principia  
J. Bruce Brackenridge  
\$37.95 | £30.00

9780520202177 | 1996 | PB  
University of California Press

**Mathematics and Democracy**

Designing Better Voting and Fair-Division Procedures  
Steven J. Brams  
\$46.00 | £36.00

9780691133218 | 2008 | PB  
Princeton University Press

**By Jupiter**

Odysseys to a Giant  
Eric Burgess  
\$115.00 | £90.00

9780231051767 | 1982 | HB  
Columbia University Press

**Outpost on Apollo's Moon**

Eric Burgess  
\$115.00 | £90.00

9780231076661 | 1993 | HB  
Columbia University Press

**To the Red Planet**

Eric Burgess  
\$115.00 | £90.00

9780231043922 | 1978 | HB  
Columbia University Press

**Return To the Red Planet**

Eric Burgess  
\$115.00 | £90.00

9780231069427 | 1990 | HB  
Columbia University Press

**Classical and Celestial Mechanics**

The Recife Lectures  
Hildeberto Cabral, Florin Diacu  
\$120.00 | £94.00

9780691050225 | 2002 | HB  
Princeton University Press

**An Einstein Encyclopedia**

Alice Calaprice, Daniel Kennefick, Robert Schulmann  
\$39.95 | £30.00

9780691141749 | 2015 | HB  
Princeton University Press

**Interpreting Bodies**

Classical and Quantum Objects in Modern Physics  
Elena Castellani  
\$62.50 | £50.00

9780691017259 | 1999 | PB  
Princeton University Press

**From Dust to Life**

The Origin and Evolution of Our Solar System  
John Chambers, Jacqueline Mitton  
\$29.95 | £25.00

9780691145228 | 2013 | HB  
Princeton University Press

**From Dust to Life**

The Origin and Evolution of Our Solar System  
John Chambers, Jacqueline Mitton  
\$22.95 | £17.99

9780691175706 | 2017 | PB  
Princeton University Press

**The Jahn-Teller Effect in C60 and Other Icosahedral Complexes**

C. C. Chancey, M. C.M. O'Brien  
\$145.00 | £112.00

9780691044453 | 1998 | HB  
Princeton University Press

**Explaining the Universe**

The New Age of Physics  
John M. Charap  
\$45.00 | £35.00

9780691117447 | 2004 | PB  
Princeton University Press

**Natural Complexity**

A Modeling Handbook  
Paul Charbonneau  
\$49.50 | £40.00

9780691170350 | 2017 | PB  
Primer in Complex Systems  
Princeton University Press

**Natural Complexity**

A Modeling Handbook  
Paul Charbonneau  
\$99.50 | £78.00

9780691176840 | 2017 | HB  
Primer in Complex Systems  
Princeton University Press

**Gravitation and Inertia**

Ignazio Ciufolini, John Archibald Wheeler  
\$145.00 | £112.00

9780691033235 | 1995 | HB  
Princeton Series in Physics  
Princeton University Press

**The Sun Kings**

The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began  
Stuart Clark  
\$24.95 | £20.00

9780691141268 | 2009 | PB  
Princeton University Press

**Heavenly Errors**

Misconceptions About the Real Nature of the Universe  
Neil F. Comins  
\$32.00 | £25.00

9780231116459 | 2003 | PB  
Columbia University Press

**Heavenly Errors**

Misconceptions About the Real Nature of the Universe  
Neil F. Comins  
\$105.00 | £81.00

9780231116442 | 2001 | HB  
Columbia University Press

### The Traveler's Guide to Space

For One-Way Settlers and Round-Trip Tourists

Neil F. Comins

\$37.00 | £30.00

9780231177542 | 2017 | HB  
Columbia University Press

### From c-Numbers to q-Numbers

The Classical Analogy in the History of Quantum Theory

Olivier Darrigol

\$49.95 | £39.00

9780520328273 | 2021 | PB  
California Studies in the History of Science  
University of California Press

### The Tests of Time

Readings in the Development of Physical Theory

Lisa M. Dolling, Arthur F.

Gianelli, Glenn N. Statile

\$78.50 | £62.00

9780691090856 | 2003 | PB  
Princeton University Press

### Albert Einstein, Mileva Maric

The Love Letters

Albert Einstein, Jürgen Renn, Robert Schulmann, Shawn Smith

\$20.95 | £16.99

9780691088860 | 2001 | PB  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 13

The Berlin Years: Writings & Correspondence, January 1922 - March 1923 - Documentary Edition

Albert Einstein, Diana K. Buchwald, József Illy, Ze'ev Rosenkranz, Tilman Sauer

\$175.00 | £135.00

### The Collected Papers of Albert Einstein, Volume 4 (English)

The Swiss Years: Writings, 1912-1914. (English translation supplement)

Albert Einstein, Anna Beck

\$69.95 | £54.00

9780691026107 | 1996 | PB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 7 (English)

The Berlin Years: Writings, 1918-1921. (English translation of selected texts)

Albert Einstein, Alfred Engel

\$69.95 | £54.00

9780691057187 | 2002 | PB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 8

The Berlin Years: Correspondence, 1914-1918

Albert Einstein, Robert Schulmann, A. J. Kox, Michel Janssen, József Illy

\$299.95 | £231.00

9780691048499 | 1998 | HB  
Collected Papers of Albert Einstein

### Essential Radio Astronomy

James J. Condon, Scott M.

Ransom

\$85.00 | £66.00

9780691137797 | 2016 | HB  
Princeton Series in Modern Observational Astronomy  
Princeton University Press

### From c-Numbers to q-Numbers

The Classical Analogy in the History of Quantum Theory

Olivier Darrigol

\$85.00 | £66.00

9780520368521 | 2021 | HB  
California Studies in the History of Science  
University of California Press

### Frame of the Universe

A History of Physical Cosmology

Frank Durham, Robert D.

Purrington

\$38.00 | £30.00

9780231053938 | 1985 | PB  
Columbia University Press

### The Collected Papers of Albert Einstein, Volume 2 (English)

The Swiss Years: Writings, 1900-1909. (English translation supplement)

Albert Einstein, Anna Beck

\$63.00 | £50.00

9780691085494 | 1992 | PB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 11

Cumulative Index, Bibliography, List of Correspondence, Chronology, and Errata to Volumes 1-10

Albert Einstein, A. J. Kox, Tilman Sauer, Diana Kormos Buchwald, Rudy Hirschmann, Osik Moses, Benjamin Aronin, Jennifer Stolper, A. J. Kox, Diana K.

### The Collected Papers of Albert Einstein, Volume 6

The Berlin Years: Writings, 1914-1917.

Albert Einstein, A. J. Kox, Martin J. Klein, Robert Schulmann

\$165.00 | £128.00

9780691010861 | 1996 | HB  
Collected Papers of Albert Einstein  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 13

The Berlin Years: Writings & Correspondence, January 1922 - March 1923 (English Translation Supplement)

Albert Einstein, Diana K. Buchwald, József Illy, Ze'ev Rosenkranz, Tilman Sauer, Ann M. Hentschel, Osik Moses

\$55.00 | £44.00

### The Collected Papers of Albert Einstein, Volume 4

The Swiss Years: Writings, 1912-1914

Albert Einstein, Martin J. Klein, A. J. Kox, Jürgen Renn, Robert Schulmann

\$165.00 | £128.00

9780691037059 | 1995 | HB  
Collected Papers of Albert Einstein

### Einstein's Jury

The Race to Test Relativity

Jeffrey Crellin

\$27.95 | £22.00

9780691171074 | 2016 | PB  
Princeton University Press

### The View from Space

Photographic Exploration of the Planets

Merton E. Davies, Bruce C.

Murray

\$55.00 | £44.00

9780231083300 | 1973 | PB  
Columbia University Press

### Angular Momentum in Quantum Mechanics

A. R. Edmonds

\$39.95 | £30.00

9780691025896 | 1996 | PB  
Princeton Landmarks in Mathematics and Physics  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 15

The Berlin Years: Writings & Correspondence, June 1925 - May 1927 - Documentary Edition

Albert Einstein, Diana K. Buchwald, József Illy, A. J. Kox, Dennis Lehmkuhl, Ze'ev Rosenkranz, Jennifer Nollar James

### The Collected Papers of Albert Einstein, Volume 14 (English)

The Berlin Years: Writings & Correspondence, April 1923 - May 1925 (English Translation Supplement) - Documentary Edition

Albert Einstein, Diana K. Buchwald, József Illy, Ze'ev Rosenkranz, Tilman Sauer, Osik

### The Collected Papers of Albert Einstein, Volume 1

The Early Years, 1879-1902

Albert Einstein, John Stachel, David C. Cassidy, Robert Schulmann

\$165.00 | £128.00

9780691084077 | 1992 | HB  
Collected Papers of Albert Einstein  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 12

The Berlin Years: Correspondence, January-December 1921 - Documentary Edition

Albert Einstein, Ze'ev Rosenkranz, Tilman Sauer, Jozsef Illy, Virginia Iris Holmes, Diana K. Buchwald, Ze'ev Rosenkranz, József Illy

### The Collected Papers of Albert Einstein, Volume 5 (English)

The Swiss Years: Correspondence, 1902-1914. (English translation supplement)

Albert Einstein, Anna Beck

\$72.50 | £58.00

9780691000992 | 1995 | PB

### On Physics and Philosophy

Bernard D'espagnat

\$67.50 | £54.00

9780691119649 | 2006 | HB  
Princeton University Press

### Metastable Liquids

Concepts and Principles

Pablo G. Debenedetti

\$145.00 | £112.00

9780691085951 | 1997 | HB  
Physical Chemistry: Science and Engineering  
Princeton University Press

### Turning the World Inside Out and 174 Other Simple Physics Demonstrations

Robert Ehrlich

\$35.00 | £28.00

9780691023953 | 1992 | PB  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 14

The Berlin Years: Writings & Correspondence, April 1923 - May 1925 - Documentary Edition

Albert Einstein, Diana K. Buchwald, József Illy, Ze'ev Rosenkranz, Tilman Sauer, Osik Moses

### The Collected Papers of Albert Einstein, Volume 8 (English)

The Berlin Years: Correspondence, 1914-1918. (English translation supplement)

Albert Einstein, Ann M. Hentschel

### The Collected Papers of Albert Einstein, Volume 1

The Early Years, 1879-1902. (English translation supplement)

Albert Einstein, Anna Beck

\$99.95 | £78.00

9780691084756 | 1992 | PB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 12 (English)

The Berlin Years: Correspondence, January-December 1921 (English translation supplement)

Albert Einstein, Diana K. Buchwald, Ze'ev Rosenkranz, Tilman Sauer, József Illy, Virginia Iris Holmes, Ann M.

### The Collected Papers of Albert Einstein, Volume 3

The Swiss Years: Writings, 1909-1911

Albert Einstein, Martin J. Klein, A. J. Kox, Jürgen Renn, Robert Schulmann

\$165.00 | £128.00

9780691087726 | 1994 | HB  
Collected Papers of Albert Einstein

### On Physics and Philosophy

Bernard d'Espagnat

\$30.95 | £25.00

9780691158068 | 2013 | PB  
Princeton University Press

### High Energy Radiation from Black Holes

Gamma Rays, Cosmic Rays, and Neutrinos

Charles D. Dermer, Govind Menon

\$105.00 | £82.00

9780691144085 | 2009 | PB  
Princeton Series in Astrophysics  
Princeton University Press

### Why Toast Lands Jelly-Side Down

Zen and the Art of Physics Demonstrations

Robert Ehrlich

\$31.95 | £25.00

9780691028873 | 1997 | PB  
Princeton University Press

### The Collected Papers of Albert Einstein, Volume 3 (English)

The Swiss Years: Writings, 1909-1911. (English translation supplement)

Albert Einstein, Anna Beck

\$69.95 | £54.00

9780691102504 | 1994 | PB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 6 (English)

The Berlin Years: Writings, 1914-1917. (English translation supplement)

Albert Einstein, Alfred Engel

\$69.95 | £54.00

### The Collected Papers of Albert Einstein, Volume 10 (English)

The Berlin Years: Correspondence, May-December 1920, and Supplementary

Correspondence, 1909-1920. (English translation of selected texts)

Albert Einstein, Diana K.

### The Collected Papers of Albert Einstein, Volume 7

The Berlin Years: Writings, 1918-1921

Albert Einstein, Michel Janssen, Robert Schulmann, József Illy, Christoph Lehner

\$165.00 | £128.00

9780691057170 | 2002 | HB  
Collected Papers of Albert Einstein

### The Collected Papers of Albert Einstein, Volume 2

The Swiss Years: Writings, 1900-1909

Albert Einstein, John Stachel, David C. Cassidy, Jürgen Renn, Robert Schulmann

\$165.00 | £128.00

9780691085265 | 1992 | HB  
Collected Papers of Albert Einstein

- The Collected Papers of Albert Einstein, Volume 15 (Translation Supplement)**  
The Berlin Years: Writings & Correspondence, June 1925–May 1927  
Albert Einstein, Diana K. Buchwald, József Illy, A. J. Kox, Dennis Lehmkuhl, Ze'ev Rosenkranz, Jennifer Nollar James, Ann M. Hentschel, Mary
- The Collected Papers of Albert Einstein, Volume 16 (Documentary Edition)**  
The Berlin Years / Writings & Correspondence / June 1927–May 1929  
Diana K. Buchwald, Albert Einstein  
\$200.00 | £154.00
- 9780691216812 | 2021 | HB
- The Ultimate Quotable Einstein**  
Albert Einstein, Alice Calaprice, Freeman Dyson  
\$24.95 | £20.00
- 9780691138176 | 2010 | HB  
Princeton University Press
- Searching for the Oldest Stars**  
Ancient Relics from the Early Universe  
Anna Frebel  
\$18.95 | £14.99
- 9780691197197 | 2019 | PB  
Princeton University Press
- Sneaking a Look at God's Cards**  
Unraveling the Mysteries of Quantum Mechanics - Revised Edition  
Giancarlo Ghirardi, Gerald Malsbary  
\$46.95 | £38.00
- 9780691130378 | 2007 | PB  
Princeton University Press
- The Cosmic Web**  
Mysterious Architecture of the Universe  
J. Richard Gott  
\$19.95 | £14.99
- 9780691181172 | 2018 | PB  
Princeton University Press
- Stellar Spectral Classification**  
Richard O. Gray, Christopher J. Corbally  
\$87.50 | £68.00
- 9780691125114 | 2009 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- Alien Oceans**  
The Search for Life in the Depths of Space  
Kevin Hand  
\$27.95 | £22.00
- 9780691179513 | 2020 | HB  
Princeton University Press
- The Collected Papers of Albert Einstein, Volume 10**  
The Berlin Years: Correspondence, May–December 1920, and Supplementary Correspondence, 1909–1920 - Documentary Edition  
Albert Einstein, Diana K. Buchwald, Tilman Sauer, Ze'ev Rosenkranz, József Illy, Virginia
- The Collected Papers of Albert Einstein, Volume 16 (Translation Supplement)**  
The Berlin Years / Writings & Correspondence / June 1927–May 1929  
Diana K. Buchwald, Albert Einstein  
\$45.00 | £35.00
- 9780691216829 | 2021 | PB
- Geminus's Introduction to the Phenomena**  
A Translation and Study of a Hellenistic Survey of Astronomy  
James Evans, J. Lennart Berggren  
\$78.50 | £54.00
- 9780691123394 | 2006 | HB  
Princeton University Press
- The Cosmic Cocktail**  
Three Parts Dark Matter  
Katherine Freese  
\$19.95 | £14.99
- 9780691169187 | 2016 | PB  
Science Essentials  
Princeton University Press
- Introduction to Modeling Convection in Planets and Stars**  
Magnetic Field, Density Stratification, Rotation  
Gary A. Glatzmaier  
\$70.00 | £54.00
- 9780691141732 | 2013 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- The Cosmic Web**  
Mysterious Architecture of the Universe  
J. Richard Gott  
\$29.95 | £25.00
- 9780691157269 | 2016 | HB  
Princeton University Press
- The Formative Years of Relativity**  
The History and Meaning of Einstein's Princeton Lectures  
Hanoch Gutfreund, Jürgen Renn  
\$35.00 | £28.00
- 9780691174631 | 2017 | HB  
Princeton University Press
- Encounters with Einstein**  
And Other Essays on People, Places, and Particles  
Werner Heisenberg  
\$25.95 | £20.00
- 9780691024332 | 1992 | PB  
Princeton Science Library  
Princeton University Press
- The Collected Papers of Albert Einstein, Volume 9. (English)**  
The Berlin Years: Correspondence, January 1919 - April 1920. (English translation of selected texts)  
Albert Einstein, Ann M. Hentschel  
\$69.95 | £54.00
- Einstein's Miraculous Year**  
Five Papers That Changed the Face of Physics  
Albert Einstein, John Stachel, Roger Penrose  
\$35.00 | £28.00
- 9780691122281 | 2005 | PB  
Princeton University Press
- The Galileo Affair**  
A Documentary History  
Maurice A. Finocchiaro  
\$33.95 | £27.00
- 9780520066625 | 1992 | PB  
California Studies in the History of Science  
University of California Press
- The Curvature of Spacetime**  
Newton, Einstein, and Gravitation  
Harald Fritzsche, Karin Heusch  
\$34.00 | £28.00
- 978023118217 | 2005 | PB  
Columbia University Press
- Introduction to Modeling Convection in Planets and Stars**  
Magnetic Field, Density Stratification, Rotation  
Gary A. Glatzmaier  
\$105.00 | £82.00
- 9780691141725 | 2013 | HB  
Princeton Series in Astrophysics  
Oxford University Press
- Electromagnetic Processes**  
Robert J. Gould  
\$85.00 | £66.00
- 9780691124445 | 2006 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- 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, John Stachel  
\$22.95 | £17.99
- 9780691175812 | 2017 | PB
- The Semiclassical Way to Dynamics and Spectroscopy**  
Eric J. Heller  
\$99.50 | £78.00
- 9780691163734 | 2018 | HB  
Princeton University Press
- The Collected Papers of Albert Einstein, Volume 9**  
The Berlin Years: Correspondence, January 1919 - April 1920  
Albert Einstein, Diana K. Buchwald, Robert Schulmann, József Illy, Daniel Kennefick  
\$165.00 | £128.00
- 9780691120881 | 2004 | HB
- The Meaning of Relativity**  
Including the Relativistic Theory of the Non-Symmetric Field - Fifth Edition  
Albert Einstein, Brian Greene  
\$19.95 | £16.99
- 9780691164083 | 2014 | PB  
Princeton Science Library  
Princeton University Press
- Galileo on the World Systems**  
A New Abridged Translation and Guide  
Galileo Galilei, Maurice A. Finocchiaro  
\$33.95 | £27.00
- 9780520206465 | 1997 | PB  
University of California Press
- Einstein for the 21st Century**  
His Legacy in Science, Art, and Modern Culture  
Peter L. Galison, Gerald Holton, Silvan S. Schweber  
\$35.00 | £28.00
- 9780691177908 | 2018 | PB  
Princeton University Press
- The Standard Model in a Nutshell**  
Dave Goldberg  
\$85.00 | £66.00
- 9780691167596 | 2017 | HB  
In a Nutshell  
Princeton University Press
- Statistical and Thermal Physics**  
With Computer Applications  
Harvey Gould, Jan Tobochnik  
\$115.00 | £90.00
- 9780691137445 | 2010 | HB  
Princeton University Press
- 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, John Stachel  
\$37.50 | £30.00
- 9780691162539 | 2015 | HB
- Why You Hear What You Hear**  
An Experiential Approach to Sound, Music, and Psychoacoustics  
Eric J. Heller  
\$120.00 | £94.00
- 9780691148595 | 2013 | HB  
Princeton University Press
- The Collected Papers of Albert Einstein, Volume 5**  
The Swiss Years: Correspondence, 1902–1914  
Albert Einstein, Martin J. Klein, A. J. Kox, Robert Schulmann  
\$165.00 | £128.00
- 9780691033228 | 1993 | HB  
Collected Papers of Albert Einstein  
Princeton University Press
- Relativity**  
The Special and the General Theory - 100th Anniversary Edition  
Albert Einstein, Hanoch Gutfreund, Jürgen Renn  
\$26.95 | £20.00
- 9780691166339 | 2015 | HB  
Princeton University Press
- Critical Problems in Physics**  
Val L. Fitch, Daniel R. Marlow, Margit A.E. Dementi  
\$67.50 | £54.00
- 9780691057842 | 1997 | PB  
Princeton Series in Physics  
Princeton University Press
- Classical Electromagnetism in a Nutshell**  
Anupam Garg  
\$115.00 | £90.00
- 9780691130187 | 2012 | HB  
In a Nutshell  
Princeton University Press
- An Introduction to Materials Science**  
Wenceslao González-viñas, Hector L Mancini, Héctor L. Mancini  
\$105.00 | £82.00
- 9780691070971 | 2004 | HB  
Princeton University Press
- Statistical and Thermal Physics**  
With Computer Applications, Second Edition  
Harvey Gould, Jan Tobochnik  
\$85.00 | £66.00
- 9780691201894 | 2021 | HB  
Princeton University Press
- Building Physical Intuition**  
Douglas Hamilton, Cole Miller  
\$29.95 | £25.00
- 9780691178844 | 2023 | HB  
Princeton University Press
- Exoplanetary Atmospheres**  
Theoretical Concepts and Foundations  
Kevin Heng  
\$65.00 | £50.00
- 9780691166988 | 2017 | PB  
Princeton Series in Astrophysics  
Princeton University Press



- The Chemical Evolution of the Atmosphere and Oceans**  
Heinrich D. Holland  
\$115.00 | £90.00  
9780691023816 | 1992 | PB  
Princeton Series in Geochemistry  
Princeton University Press
- At the Edge of Time**  
Exploring the Mysteries of Our Universe's First Seconds  
Dan Hooper  
\$24.95 | £20.00  
9780691183565 | 2019 | HB  
Science Essentials  
Princeton University Press
- Theory of Stellar Atmospheres**  
An Introduction to Astrophysical Non-equilibrium Quantitative Spectroscopic Analysis  
Ivan Hubeny, Dimitri Mihalas  
\$95.00 | £74.00  
9780691163291 | 2014 | PB  
Princeton Series in Astrophysics
- Dreams of Other Worlds**  
The Amazing Story of Unmanned Space Exploration  
Chris Impey, Holly Henry  
\$35.00 | £28.00  
9780691147536 | 2013 | HB  
Princeton University Press
- Dreams of Other Worlds**  
The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition  
Chris Impey, Holly Henry  
\$24.95 | £20.00  
9780691169224 | 2016 | PB  
Princeton University Press
- Hölder Continuous Euler Flows in Three Dimensions with Compact Support in Time**  
(AMS-196)  
Philip Isett  
\$165.00 | £128.00  
9780691174822 | 2017 | HB  
Annals of Mathematics Studies  
Oxford University Press
- Hölder Continuous Euler Flows in Three Dimensions with Compact Support in Time**  
(AMS-196)  
Philip Isett  
\$75.00 | £58.00  
9780691174839 | 2017 | PB  
Annals of Mathematics Studies  
Princeton University Press
- Statistics, Data Mining, and Machine Learning in Astronomy**  
A Practical Python Guide for the Analysis of Survey Data  
Željko Ivezić, Andrew J. Connolly, Jacob T. VanderPlas, Alexander Gray  
\$99.95 | £82.00  
9780691151687 | 2014 | HB
- Statistics, Data Mining, and Machine Learning in Astronomy**  
A Practical Python Guide for the Analysis of Survey Data, Updated Edition  
Željko Ivezić, Andrew J. Connolly, Jacob T. VanderPlas, Alexander Gray  
\$85.00 | £66.00
- Statistics, Data Mining, and Machine Learning in Astronomy**  
A Practical Python Guide for the Analysis of Survey Data, Second Edition  
John D. Joannopoulos, Steven G. Johnson, Joshua N. Winn, Robert D. Meade  
\$115.00 | £90.00  
9780691124568 | 2008 | HB  
Princeton University Press
- How Do You Find an Exoplanet?**  
John Asher Johnson  
\$35.00 | £28.00  
9780691156811 | 2016 | HB  
Princeton Frontiers in Physics  
Princeton University Press
- Strange Glow**  
The Story of Radiation  
Timothy J. Jorgensen  
\$35.00 | £28.00  
9780691165035 | 2016 | HB  
Princeton University Press
- Einstein and Religion**  
Physics and Theology  
Max Jammer  
\$37.50 | £30.00  
9780691102979 | 2002 | PB  
Princeton University Press
- Strange New Worlds**  
The Search for Alien Planets and Life beyond Our Solar System  
Ray Jayawardhana  
\$20.95 | £16.99  
9780691158075 | 2013 | PB  
Princeton University Press
- Photonic Crystals**  
Molding the Flow of Light - Second Edition  
John D. Joannopoulos, Steven G. Johnson, Joshua N. Winn, Robert D. Meade  
\$115.00 | £90.00  
9780691124568 | 2008 | HB  
Princeton University Press
- The Dynamic Structure of the Deep Earth**  
An Interdisciplinary Approach  
Shun-Ichiro Karato  
\$75.00 | £58.00  
9780691095110 | 2003 | HB  
Princeton University Press
- How to Find a Habitable Planet**  
James Kasting  
\$24.95 | £20.00  
9780691156279 | 2012 | PB  
Science Essentials  
Princeton University Press
- The Crest of the Peacock**  
Non-European Roots of Mathematics - Third Edition  
George Gheverghese Joseph  
\$45.00 | £35.00  
9780691135267 | 2010 | PB  
Princeton University Press
- Physics and Politics in Revolutionary Russia**  
Paul R. Josephson  
\$63.00 | £49.00  
9780520074828 | 1992 | HB  
California Studies in the History of Science  
University of California Press
- Heaven's Touch**  
From Killer Stars to the Seeds of Life, How We Are Connected to the Universe  
James B. Kaler  
\$32.95 | £25.00  
9780691129464 | 2009 | HB  
Princeton University Press
- The Extravagant Universe**  
Exploding Stars, Dark Energy, and the Accelerating Cosmos  
Robert P. Kirshner  
\$19.95 | £14.99  
9780691173184 | 2016 | PB  
Princeton Science Library  
Princeton University Press
- Active Galactic Nuclei**  
From the Central Black Hole to the Galactic Environment  
Julian H. Krolik  
\$99.95 | £78.00  
9780691011516 | 1999 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- Traveling at the Speed of Thought**  
Einstein and the Quest for Gravitational Waves  
Daniel Kennefick  
\$55.00 | £44.00  
9780691117270 | 2007 | HB  
Princeton University Press
- A Student's Guide to Python for Physical Modeling**  
Second Edition  
Jesse M. Kinder, Philip Nelson  
\$75.00 | £58.00  
9780691219288 | 2021 | HB  
Princeton University Press
- A Student's Guide to Python for Physical Modeling**  
Second Edition  
Jesse M. Kinder, Philip Nelson  
\$24.95 | £20.00  
9780691223650 | 2021 | PB  
Princeton University Press
- The Extravagant Universe**  
Exploding Stars, Dark Energy, and the Accelerating Cosmos  
Robert P. Kirshner  
\$19.95 | £14.99  
9780691173184 | 2016 | PB  
Princeton Science Library  
Princeton University Press
- Active Galactic Nuclei**  
From the Central Black Hole to the Galactic Environment  
Julian H. Krolik  
\$99.95 | £78.00  
9780691011516 | 1999 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- Plasma Physics for Astrophysics**  
Russell M. Kulsrud  
\$97.50 | £76.00  
9780691120737 | 2005 | PB  
Princeton University Press
- Fundamentals of Spacecraft Charging**  
Spacecraft Interactions with Space Plasmas  
Shu T. Lai  
\$105.00 | £82.00  
9780691129471 | 2011 | HB  
Princeton University Press
- A Survey of Computational Physics**  
Introductory Computational Science  
Rubin H. Landau, José Páez, Cristian C. Bordeianu  
\$120.00 | £94.00  
9780691131375 | 2008 | HB  
Princeton University Press
- Can the Laws of Physics Be Unified?**  
Paul Langacker  
\$35.00 | £28.00  
9780691167794 | 2017 | HB  
Princeton Frontiers in Physics  
Princeton University Press
- Echo of the Big Bang**  
Michael D. Lemonick  
\$25.95 | £20.00  
9780691122427 | 2005 | PB  
Princeton University Press
- Perfect Form**  
Variational Principles, Methods, and Applications in Elementary Physics  
Don S. Lemons  
\$57.50 | £45.00  
9780691026633 | 1997 | PB  
Princeton University Press
- Shoemaker by Levy**  
The Man Who Made an Impact  
David H. Levy  
\$35.00 | £28.00  
9780691113258 | 2002 | PB  
Princeton University Press
- Space Resources**  
Breaking the Bonds of Earth  
John S. Lewis, Ruth A. Lewis  
\$115.00 | £90.00  
9780231064989 | 1987 | HB  
Columbia University Press
- The Voyages of Columbia**  
The First True Spaceship  
Richard S. Lewis  
\$100.00 | £78.00  
9780231059244 | 1984 | HB  
Columbia University Press
- Problem Book in Relativity and Gravitation**  
Alan P. Lightman, William H. Press, Richard H. Price, Saul A. Teukolsky  
\$99.95 | £78.00  
9780691177779 | 2017 | HB  
Princeton University Press
- The First Galaxies in the Universe**  
Abraham Loeb, Steven R. Furlanetto  
\$97.50 | £76.00  
9780691144924 | 2013 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- The First Galaxies in the Universe**  
Abraham Loeb, Steven R. Furlanetto  
\$150.00 | £125.00  
9780691144917 | 2013 | HB  
Princeton Series in Astrophysics  
Oxford University Press
- How Did the First Stars and Galaxies Form?**  
Abraham Loeb  
\$35.00 | £28.00  
9780691145167 | 2010 | PB  
Princeton Frontiers in Physics  
Princeton University Press
- Titan Unveiled**  
Saturn's Mysterious Moon Explored  
Ralph Lorenz, Jacqueline Mitton  
\$19.95 | £14.99  
9780691146331 | 2010 | PB  
Princeton University Press
- A Concise History of Solar and Stellar Physics**  
Jean-Louis Tassoul, Monique Tassoul  
\$30.95 | £25.00  
9780691165929 | 2014 | PB  
Princeton University Press

**An Introduction to X-Ray Physics, Optics, and Applications**

Carolyn A. MacDonald  
\$80.00 | £62.00

9780691139654 | 2017 | HB  
Princeton University Press

**Condensed Matter in a Nutshell**

Gerald D. Mahan  
\$105.00 | £82.00

9780691140162 | 2010 | HB  
In a Nutshell  
Princeton University Press

**Quantum Mechanics in a Nutshell**

Gerald D. Mahan  
\$105.00 | £82.00

9780691137131 | 2009 | HB  
In a Nutshell  
Princeton University Press

**The Supernova Story**

Laurence Marschall  
\$35.00 | £28.00

9780691036335 | 1994 | PB  
Princeton Science Library  
Princeton University Press

**Kepler's Philosophy and the New Astronomy**

Rhonda Martens  
\$99.95 | £78.00

9780691050690 | 2000 | HB  
Princeton University Press

**Philosophy of Physics**

Quantum Theory  
Tim Maullin  
\$24.95 | £20.00

9780691183527 | 2019 | HB  
Princeton Foundations of Contemporary Philosophy  
Princeton University Press

**Keep Watching the Skies!**

The Story of Operation Moonwatch and the Dawn of the Space Age  
W. Patrick McCray  
\$45.00 | £35.00

9780691128542 | 2008 | HB  
Princeton University Press

**The Black Hole at the Center of Our Galaxy**

Fulvio Melia  
\$47.95 | £38.00

9780691095059 | 2003 | HB  
Princeton University Press

**The Galactic Supermassive Black Hole**

Fulvio Melia  
\$78.50 | £62.00

9780691131290 | 2007 | PB  
Princeton University Press

**High-Energy Astrophysics**

Fulvio Melia  
\$95.00 | £74.00

9780691140292 | 2009 | PB  
Princeton Series in Astrophysics  
Princeton University Press

**It's About Time**

Understanding Einstein's Relativity  
N. David Mermin  
\$25.95 | £20.00

9780691141275 | 2009 | PB  
Princeton Science Library  
Princeton University Press

**Dynamics and Evolution of Galactic Nuclei**

David Merritt  
\$82.50 | £64.00

9780691158600 | 2013 | PB  
Princeton Series in Astrophysics  
Princeton University Press

**Dynamics and Evolution of Galactic Nuclei**

David Merritt  
\$135.00 | £104.00

9780691121017 | 2013 | HB  
Princeton Series in Astrophysics  
Princeton University Press

**Inside Relativity**

Delo E. Mook, Thomas Vargish  
\$45.00 | £35.00

9780691025209 | 1992 | PB  
Princeton University Press

**Stable and Random Motions in Dynamical Systems**

With Special Emphasis on Celestial Mechanics (AM-77)  
Jurgen Moser  
\$75.00 | £58.00

9780691089102 | 2001 | PB  
Princeton Landmarks in Mathematics and Physics

**Flight to Mercury**

Bruce C. Murray, Eric Burgess  
\$95.00 | £74.00

9780231039963 | 1977 | HB  
Columbia University Press

**In Praise of Simple Physics**

The Science and Mathematics behind Everyday Questions  
Paul J. Nahin  
\$29.95 | £25.00

9780691166933 | 2016 | HB  
Princeton Puzzlers  
Princeton University Press

**From Photon to Neuron**

Light, Imaging, Vision  
Philip Nelson  
\$49.50 | £40.00

9780691175195 | 2017 | PB  
Princeton University Press

**From Photon to Neuron**

Light, Imaging, Vision  
Philip Nelson  
\$110.00 | £85.00

9780691175188 | 2017 | HB  
Princeton University Press

**Quantum Fluctuations**

Edward Nelson  
\$62.50 | £50.00

9780691083797 | 1992 | PB  
Princeton Series in Physics  
Princeton University Press

**Princeton Problems in Physics with Solutions**

Nathan Newbury, Mark Newman  
\$62.50 | £50.00

9780691024493 | 1992 | PB  
Princeton University Press

**Mathematical Methods for Geophysics and Space Physics**

William I. Newman  
\$75.00 | £58.00

9780691170602 | 2016 | HB  
Princeton University Press

**The Principia: The Authoritative Translation and Guide**

Mathematical Principles of Natural Philosophy  
Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz  
\$95.00 | £74.00

9780520290877 | 2016 | HB  
University of California Press

**The Principia: The Authoritative Translation**

Mathematical Principles of Natural Philosophy  
Isaac Newton, I. Bernard Cohen, Anne Whitman, Julia Budenz  
\$55.00 | £43.00

9780520290730 | 2016 | HB  
University of California Press

**Thinking about Physics**

Roger G. Newton  
\$37.50 | £30.00

9780691095530 | 2002 | PB  
Princeton University Press

**The Dawning of Gauge Theory**

Lochlainn O'Raifeartaigh  
\$99.95 | £78.00

9780691029771 | 1997 | PB  
Princeton Series in Physics  
Princeton University Press

**Quantum Philosophy**

Understanding and Interpreting Contemporary Science  
Roland Omnès, Arturo Sangalli  
\$37.50 | £30.00

9780691095516 | 2002 | PB  
Princeton University Press

**Understanding Quantum Mechanics**

Roland Omnès  
\$90.00 | £70.00

9780691004358 | 1999 | HB  
Princeton University Press

**More is Different**

Fifty Years of Condensed Matter Physics  
Nai-Phuan Ong, Ravin Bhatt  
\$99.95 | £78.00

9780691088662 | 2001 | PB  
Princeton Series in Physics  
Princeton University Press

**Heart of Darkness**

Unraveling the Mysteries of the Invisible Universe  
Jeremiah P. Ostriker, Simon Mitton  
\$19.95 | £14.99

9780691165776 | 2015 | PB  
Science Essentials  
Princeton University Press

**Heart of Darkness**

Unraveling the Mysteries of the Invisible Universe  
Jeremiah P. Ostriker, Simon Mitton  
\$27.95 | £22.00

9780691134307 | 2013 | HB  
Science Essentials  
Princeton University Press

**Conversations on Electric and Magnetic Fields in the Cosmos**

Eugene N. Parker  
\$72.50 | £58.00

9780691128412 | 2007 | PB  
Princeton Series in Astrophysics  
Princeton University Press

**The Large-Scale Structure of the Universe**

P. J. E. Peebles  
\$95.00 | £74.00

9780691082400 | 1992 | PB  
Princeton Series in Physics  
Princeton University Press

**Principles of Physical Cosmology**

P. J. E. Peebles  
\$95.00 | £74.00

9780691019338 | 1993 | PB  
Princeton Series in Physics  
Princeton University Press

**Quantum Mechanics**

P. J. E. Peebles  
\$125.00 | £98.00

9780691087559 | 1992 | HB  
Princeton University Press

**More Surprises in Theoretical Physics**

Rudolf Peierls  
\$67.50 | £54.00

9780691025223 | 1992 | PB  
Princeton Series in Physics  
Princeton University Press

**Surprises in Theoretical Physics**

R Peierls  
\$67.50 | £54.00

9780691082424 | 1992 | PB  
Princeton Series in Physics  
Princeton University Press

**Statistical Mechanics in a Nutshell**

Luca Peliti  
\$99.95 | £78.00

9780691145297 | 2011 | HB  
In a Nutshell  
Princeton University Press

**Mankind Beyond Earth**

The History, Science, and Future of Human Space Exploration  
Claude A. Piantadosi  
\$29.00 | £22.00

9780231162432 | 2015 | PB  
Columbia University Press

**Mankind Beyond Earth**

The History, Science, and Future of Human Space Exploration  
Claude A. Piantadosi  
\$95.00 | £74.00

9780231162425 | 2013 | HB  
Columbia University Press

- Gauge Theories of the Strong, Weak, and Electromagnetic Interactions**  
Second Edition  
Chris Quigg  
\$82.50 | £64.00  
9780691135489 | 2013 | HB  
Princeton University Press
- The Mystery of the Missing Antimatter**  
Helen R. Quinn, Yossi Nir  
\$19.95 | £14.99  
9780691163932 | 2014 | PB  
Science Essentials  
Princeton University Press
- Einstein**  
A Hundred Years of Relativity  
Andrew Robinson, Diana K. Buchwald  
\$24.95 | £20.00  
9780691169897 | 2015 | PB  
Princeton University Press
- Classical Theory of Gauge Fields**  
Valery Rubakov, Stephen S. Wilson  
\$130.00 | £100.00  
9780691059273 | 2002 | HB  
Princeton University Press
- Disturbing the Solar System**  
Impacts, Close Encounters, and Coming Attractions  
Alan E. Rubin  
\$38.95 | £30.00  
9780691117430 | 2004 | PB  
Princeton University Press
- Understanding Relativity**  
A Simplified Approach to Einstein's Theories  
Leo Sartori  
\$36.95 | £29.00  
9780520200296 | 1996 | PB  
University of California Press
- Comets, Popular Culture, and the Birth of Modern Cosmology**  
Sara Schechner  
\$52.50 | £42.00  
9780691009254 | 1999 | PB  
Princeton University Press
- Exoplanet Atmospheres**  
Physical Processes  
Sara Seager  
\$62.50 | £50.00  
9780691146454 | 2010 | PB  
Princeton Series in Astrophysics  
Princeton University Press
- Earthquake and Volcano Deformation**  
Paul Segall  
\$115.00 | £90.00  
9780691133027 | 2010 | HB  
Princeton University Press
- Quantum Mechanics and Its Emergent Macrophysics**  
Geoffrey Sewell  
\$120.00 | £94.00  
9780691058320 | 2002 | HB  
Princeton University Press
- Quantum Many-Body Physics in a Nutshell**  
Edward Shuryak  
\$75.00 | £58.00  
9780691175607 | 2018 | HB  
In a Nutshell  
Princeton University Press
- Waves and Grains**  
Reflections on Light and Learning  
Mark P. Silverman  
\$75.00 | £58.00  
9780691001135 | 1998 | PB  
Princeton University Press
- Hidden Worlds**  
Hunting for Quarks in Ordinary Matter  
Timothy Paul Smith  
\$31.95 | £25.00  
9780691122410 | 2005 | PB  
Princeton University Press
- Phase Transitions**  
Ricard Solé  
\$39.95 | £30.00  
9780691150758 | 2011 | PB  
Primers in Complex Systems  
Princeton University Press
- Energy Landscapes, Inherent Structures, and Condensed-Matter Phenomena**  
Frank H. Stillinger  
\$99.50 | £78.00  
9780691166803 | 2015 | HB  
Princeton University Press
- An Introduction to the Coriolis Force**  
Henry M. Stommel, Dennis W. Moore  
\$50.00 | £40.00  
9780231066372 | 1989 | PB  
Columbia University Press
- An Introduction to the Coriolis Force**  
Henry M. Stommel, Dennis W. Moore  
\$130.00 | £100.00  
9780231066365 | 1989 | HB  
Columbia University Press
- Einstein and the Quantum**  
The Quest of the Valiant Swabian  
A. Douglas Stone  
\$19.95 | £14.99  
9780691168562 | 2015 | PB  
Princeton University Press
- PCT, Spin and Statistics, and All That**  
Raymond F. Streater, Arthur S. Wightman  
\$55.00 | £44.00  
9780691070629 | 2000 | PB  
Princeton Landmarks in Mathematics and Physics  
Princeton University Press
- Applications of Modern Physics in Medicine**  
Mark Strikman, Kevork Spartalian, Milton W. Cole  
\$78.50 | £62.00  
9780691125862 | 2015 | HB  
Princeton University Press
- Lectures on the Infrared Structure of Gravity and Gauge Theory**  
Andrew Strominger  
\$49.95 | £40.00  
9780691179735 | 2018 | PB  
Princeton University Press
- Lectures on the Infrared Structure of Gravity and Gauge Theory**  
Andrew Strominger  
\$125.00 | £98.00  
9780691179506 | 2018 | HB  
Princeton University Press
- An Interpretive Introduction to Quantum Field Theory**  
Paul Teller  
\$47.95 | £38.00  
9780691016276 | 1997 | PB  
Princeton University Press
- Master of Modern Physics**  
The Scientific Contributions of H. A. Kramers  
D. ter Haar  
\$115.00 | £90.00  
9780691021416 | 1998 | HB  
Princeton Series in Physics  
Princeton University Press
- Memory**  
The Key to Consciousness  
Richard F. Thompson, Stephen A. Madigan  
\$35.00 | £28.00  
9780691133119 | 2007 | PB  
Science Essentials  
Princeton University Press
- The Odd Quantum**  
Sam Treiman  
\$30.95 | £25.00  
9780691103006 | 2002 | PB  
Princeton University Press
- Princeton Guide to Advanced Physics**  
Alan C. Tribble  
\$67.50 | £54.00  
9780691026626 | 1996 | PB  
Princeton University Press
- The Space Environment**  
Implications for Spacecraft Design - Revised and Expanded Edition  
Alan C. Tribble  
\$75.00 | £58.00  
9780691102993 | 2003 | PB  
Princeton University Press
- Elementary Particle Physics in a Nutshell**  
Christopher G. Tully  
\$97.50 | £76.00  
9780691131160 | 2011 | HB  
In a Nutshell  
Princeton University Press
- Universe Down to Earth**  
Neil de Grasse Tyson  
\$29.00 | £22.00  
9780231075619 | 1995 | PB  
Columbia University Press
- Welcome to the Universe**  
The Problem Book  
Neil deGrasse Tyson, Michael A. Strauss, J. Richard Gott  
\$65.00 | £50.00  
9780691177809 | 2017 | HB  
Princeton University Press
- Metapatterns**  
Across Space, Time, and Mind  
Tyler Volk  
\$36.00 | £28.00  
9780231067508 | 1995 | HB  
Columbia University Press
- Mathematical Foundations of Quantum Mechanics**  
John von Neumann  
\$99.95 | £78.00  
9780691028934 | 1996 | PB  
Princeton Landmarks in Mathematics and Physics  
Princeton University Press
- Mathematical Foundations of Quantum Mechanics**  
New Edition  
John von Neumann, Robert T. Beyer, Nicholas A. Wheeler  
\$99.50 | £78.00  
9780691178578 | 2018 | PB  
Princeton Landmarks in Mathematics and Physics  
Princeton University Press
- Mathematical Foundations of Quantum Mechanics**  
New Edition  
John von Neumann, Robert T. Beyer, Nicholas A. Wheeler  
\$150.00 | £116.00  
9780691178561 | 2018 | HB  
Princeton Landmarks in Mathematics and Physics  
Princeton University Press
- The Milky Way**  
An Insider's Guide  
William H. Waller  
\$19.95 | £14.99  
9780691178356 | 2017 | PB  
Princeton University Press
- Exploding Stars and Invisible Planets**  
The Science of What's Out There  
Fred Watson  
\$28.00 | £22.00  
9780231195409 | 2020 | HB  
Columbia University Press
- How Old Is the Universe?**  
David A. Weintraub  
\$26.95 | £20.00  
9780691156286 | 2012 | PB  
Princeton University Press
- Is Pluto a Planet?**  
A Historical Journey through the Solar System  
David A. Weintraub  
\$27.95 | £22.00  
9780691138466 | 2009 | PB  
Princeton University Press
- Life on Mars**  
What to Know Before We Go  
David A. Weintraub  
\$19.95 | £14.99  
9780691209258 | 2020 | PB  
Princeton University Press



**Life on Mars**  
What to Know Before We Go  
David A. Weintraub  
\$29.95 | £25.00  
9780691180533 | 2018 | HB  
Princeton University Press

**Fearful Symmetry**  
The Search for Beauty in  
Modern Physics  
A. Zee, Roger Penrose  
\$22.95 | £17.99  
9780691173269 | 2016 | PB  
Princeton Science Library  
Princeton University Press

**More Things in the  
Heavens**  
How Infrared Astronomy Is  
Expanding Our View of the  
Universe  
Michael Werner, Peter  
Eisenhardt  
\$35.00 | £28.00  
9780691175546 | 2019 | HB  
Princeton University Press

**On Gravity**  
A Brief Tour of a Weighty  
Subject  
A. Zee  
\$19.95 | £14.99  
9780691174389 | 2018 | HB  
Princeton University Press

**Supersymmetry and  
Supergravity**  
Revised Edition  
Julius Wess, Jonathan Bagger  
\$87.50 | £68.00  
9780691025308 | 1992 | PB  
Princeton Series in Physics  
Princeton University Press

**The Universe in a Mirror**  
The Saga of the Hubble Space  
Telescope and the Visionaries  
Who Built It  
Robert Zimmerman  
\$19.95 | £14.99  
9780691146355 | 2010 | PB  
Princeton University Press

**Near-Earth Objects**  
Finding Them Before They Find  
Us  
Donald K. Yeomans  
\$17.95 | £14.99  
9780691173337 | 2016 | PB  
Princeton University Press

**Near-Earth Objects**  
Finding Them Before They Find  
Us  
Donald K. Yeomans  
\$24.95 | £20.00  
9780691149295 | 2012 | HB  
Princeton University Press

# Index

- Active Galactic Nuclei: From the Central Black Hole to the Galactic Environment**; Julian H Krolik. . . . . 28
- Adler, Charles L.; Wizards, Aliens, and Starships: Physics and Math in Fantasy and Science Fiction. . . . . 25, 25
- Albert Einstein, Mileva Maric: The Love Letters**; Albert Einstein. . . . . 26
- Alien Oceans: The Search for Life in the Depths of Space**; Kevin Hand. . . . . 2, 27
- Al-Khalili, Jim; The World According to Physics. . . . . 3
- Anastopoulos, Charis; Particle or Wave: The Evolution of the Concept of Matter in Modern Physics. . . . . 25
- Angular Momentum in Quantum Mechanics**; A. R. Edmonds. . . . . 26
- Appel, Walter; Mathematics for Physics and Physicists. . . . . 25
- Applications of Modern Physics in Medicine**; Mark Strikman. . . . . 30
- Arnett, David; Supernovae and Nucleosynthesis: An Investigation of the History of Matter, from the Big Bang to the Present. . . . . 25
- Asteroseismic Data Analysis: Foundations and Techniques**; Sarbani Basu. . . . . 25
- Astrophysics in a Nutshell: Second Edition**; Dan Maoz. . . . . 22
- At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds**; Dan Hooper. . . . . 10, 28
- Bahcall, John N.; Unsolved Problems in Astrophysics. . . . . 25
- Bailyn, Charles D.; What Does a Black Hole Look Like?. . . . . 25
- Barger, Vernon; The Physics of Neutrinos. . . . . 25
- Basu, Sarbani; Asteroseismic Data Analysis: Foundations and Techniques. . . . . 25
- Belbruno, Edward; Fly Me to the Moon: An Insider's Guide to the New Science of Space Travel. . . . . 25
- Benfatto, Giuseppe; Renormalization Group. . . . . 25
- Bennett, Jeffrey; Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future. . . . . 25, 25
- Bennett, Jeffrey; What Is Relativity?: An Intuitive Introduction to Einstein's Ideas, and Why They Matter. . . . . 25, 25
- Berendzen, Richard; Man Discovers the Galaxies. . . . . 25
- Berman, Paul R.; Principles of Laser Spectroscopy and Quantum Optics. . . . . 25
- Bernevig, B. Andrei; Topological Insulators and Topological Superconductors. . . . . 25
- Bertulani, Carlos A.; Nuclear Physics in a Nutshell. . . . . 23
- Beyond UFOs: The Search for Extraterrestrial Life and Its Astonishing Implications for Our Future**; Jeffrey Bennett. . . . . 25, 25
- Binney, James; Galactic Astronomy. . . . . 20
- Binney, James; Galactic Dynamics: Second Edition. . . . . 20
- Black Hole at the Center of Our Galaxy, The**; Fulvio Melia. . . . . 29
- Bloom, Joshua S.; What Are Gamma-Ray Bursts?. . . . . 25
- Bond, Victor R.; Modern Astrodynamics: Fundamentals and Perturbation Methods. . . . . 25
- Brackenridge, J. Bruce; The Key to Newton's Dynamics: The Kepler Problem and the Principia. . . . . 25
- Brams, Steven J.; Mathematics and Democracy: Designing Better Voting and Fair-Division Procedures. . . . . 25
- Brief Welcome to the Universe, A: A Pocket-Sized Tour**; Neil deGrasse Tyson. . . . . 1
- Bub, Tanya; Totally Random: Why Nobody Understands Quantum Mechanics (A Serious Comic on Entanglement). . . . . 15
- Buchwald, Diana K.; The Collected Papers of Albert Einstein, Volume 16 (Documentary Edition): The Berlin Years / Writings & Correspondence / June 1927–May 1929. . . . . 27
- Building Physical Intuition**; Douglas Hamilton. . . . . 27
- Burgess, Eric; By Jupiter: Odysseys to a Giant. . . . . 25
- Burgess, Eric; Outpost on Apollo's Moon. . . . . 25
- Burgess, Eric; Return To the Red Planet. . . . . 25
- Burgess, Eric; To the Red Planet. . . . . 25
- By Jupiter: Odysseys to a Giant**; Eric Burgess. . . . . 25
- Calaprice, Alice; An Einstein Encyclopedia. . . . . 25
- Can the Laws of Physics Be Unified?**; Paul Langacker. . . . . 28
- Canales, Jimena; The Physicist and the Philosopher: Einstein, Bergson, and the Debate That Changed Our Understanding of Time. . . . . 15
- Chambers, John; From Dust to Life: The Origin and Evolution of Our Solar System. . . . . 25, 25
- Chancey, C. C.; The Jahn-Teller Effect in C60 and Other Icosahedral Complexes. . . . . 25
- Charap, John M.; Explaining the Universe: The New Age of Physics. . . . . 25
- Charbonneau, Paul; Natural Complexity: A Modeling Handbook. . . . . 25, 25
- Chemical Evolution of the Atmosphere and Oceans, The**; Heinrich D. Holland. . . . . 28
- Ciufolini, Ignazio; Gravitation and Inertia. . . . . 25
- Clark, Stuart; The Sun Kings: The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began. . . . . 25
- Classical and Celestial Mechanics: The Recife Lectures**. . . . . 25
- Classical Electromagnetism in a Nutshell**; Anupam Garg. . . . . 27
- Classical Theory of Gauge Fields**; Valery Rubakov. . . . . 30
- Collected Papers of Albert Einstein, Volume 1 (English), The: The Early Years, 1879-1902. (English translation supplement)**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 1, The: The Early Years, 1879-1902**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 10 (English), The: The Berlin Years: Correspondence, May-December 1920, and Supplementary Correspondence, 1909-1920. (English translation of selected texts)**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 10, The: The Berlin Years: Correspondence, May-December 1920, and Supplementary Correspondence, 1909-1920 - Documentary Edition**; Albert Einstein. . . . . 27
- Collected Papers of Albert Einstein, Volume 11, The: Cumulative Index, Bibliography, List of Correspondence, Chronology, and Errata to Volumes 1-10**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 12 (English), The: The Berlin Years: Correspondence, January-December 1921 (English translation supplement)**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 12, The: The Berlin Years: Correspondence, January-December 1921 - Documentary Edition**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 13, The: The Berlin Years: Writings & Correspondence, January 1922 - March 1923 - Documentary Edition**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 13, The: The Berlin Years: Writings & Correspondence, January 1922 - March 1923 (English Translation Supplement)**; Albert Einstein. . . . . 26
- Collected Papers of Albert Einstein, Volume 14 (English), The: The Berlin Years: Writings & Correspondence, April 1923–May 1925 (English Translation Supplement) - Documentary Edition**; Albert Einstein. . . . . 26

<b>Collected Papers of Albert Einstein, Volume 14, The: The Berlin Years: Writings &amp; Correspondence, April 1923–May 1925 - Documentary Edition;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 15 (Translation Supplement), The: The Berlin Years: Writings &amp; Correspondence, June 1925–May 1927;</b> Albert Einstein . . . . .	27
<b>Collected Papers of Albert Einstein, Volume 15, The: The Berlin Years: Writings &amp; Correspondence, June 1925–May 1927 - Documentary Edition;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 16 (Documentary Edition), The: The Berlin Years / Writings &amp; Correspondence / June 1927–May 1929;</b> Diana K. Buchwald . . . . .	27
<b>Collected Papers of Albert Einstein, Volume 16 (Translation Supplement), The: The Berlin Years / Writings &amp; Correspondence / June 1927–May 1929;</b> Diana K. Buchwald. . . . .	27
<b>Collected Papers of Albert Einstein, Volume 2 (English), The: The Swiss Years: Writings, 1900-1909. (English translation supplement);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 2, The: The Swiss Years: Writings, 1900-1909;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 3 (English), The: The Swiss Years: Writings, 1909-1911. (English translation supplement);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 3, The: The Swiss Years: Writings, 1909-1911;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 4 (English), The: The Swiss Years: Writings, 1912-1914. (English translation supplement);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 4, The: The Swiss Years: Writings, 1912-1914;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 5 (English), The: The Swiss Years: Correspondence, 1902-1914. (English translation supplement);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 5, The: The Swiss Years: Correspondence, 1902-1914;</b> Albert Einstein . . . . .	27
<b>Collected Papers of Albert Einstein, Volume 6 (English), The: The Berlin Years: Writings, 1914-1917. (English translation supplement);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 6, The: The Berlin Years: Writings, 1914-1917.;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 7 (English), The: The Berlin Years: Writings, 1918-1921. (English translation of selected texts);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 7, The: The Berlin Years: Writings, 1918-1921;</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 8 (English), The: The Berlin Years: Correspondence, 1914-1918. (English supplement translation.);</b> Albert Einstein. . . . .	26
<b>Collected Papers of Albert Einstein, Volume 8, The: The Berlin Years: Correspondence, 1914-1918;</b> Albert Einstein . . . . .	26
<b>Collected Papers of Albert Einstein, Volume 9, The: The Berlin Years: Correspondence, January 1919 - April 1920;</b> Albert Einstein. . . . .	27
<b>Collected Papers of Albert Einstein, Volume 9. (English), The: The Berlin Years: Correspondence, January 1919 - April 1920. (English translation of selected texts);</b> Albert Einstein. . . . .	27
<b>Comets, Popular Culture, and the Birth of Modern Cosmology;</b> Sara Schechner. . . . .	30
<b>Comins, Neil; Heavenly Errors: Misconceptions About the Real Nature of the Universe. . . . .</b>	25, 25
<b>Comins, Neil; The Traveler's Guide to Space: For One-Way Settlers and Round-Trip Tourists. . . . .</b>	26

<b>Concepts of Mass in Contemporary Physics and Philosophy;</b> Max Jammer. . . . .	28
<b>Concise History of Solar and Stellar Physics, A;</b> Jean-Louis Tassoul. . . . .	28
<b>Condensed Matter in a Nutshell;</b> Gerald D. Mahan. . . . .	29
<b>Condon, James J.; Essential Radio Astronomy. . . . .</b>	26
<b>Conversations on Electric and Magnetic Fields in the Cosmos;</b> Eugene N. Parker. . . . .	29
<b>Cosmic Cocktail, The: Three Parts Dark Matter;</b> Katherine Freese. . . . .	27
<b>Cosmic Web, The: Mysterious Architecture of the Universe ;</b> J. Richard Gott. . . . .	27, 27
<b>Cosmology's Century: An Inside History of Our Modern Understanding of the Universe;</b> P. J. E. Peebles. . . . .	18
<b>Crellinsten, Jeffrey; Einstein's Jury: The Race to Test Relativity . . . . .</b>	26
<b>Crest of the Peacock, The: Non-European Roots of Mathematics - Third Edition;</b> George Gheverghese Joseph . . . . .	28
<b>Critical Problems in Physics. . . . .</b>	27
<b>Curvature of Spacetime, The: Newton, Einstein, and Gravitation;</b> Harald Fritzsch. . . . .	27
<b>D'espagnat, Bernard; On Physics and Philosophy. . . . .</b>	26
<b>Darrigol, Olivier; From c-Numbers to q-Numbers: The Classical Analogy in the History of Quantum Theory. . . . .</b>	26, 26
<b>Davies, Merton; The View from Space: Photographic Exploration of the Planets. . . . .</b>	26
<b>Dawning of Gauge Theory, The;</b> Lochlainn O'Raifeartaigh . . . . .	29
<b>Debenedetti, Pablo G.; Metastable Liquids: Concepts and Principles. . . . .</b>	26
<b>Dermer, Charles D.; High Energy Radiation from Black Holes: Gamma Rays, Cosmic Rays, and Neutrinos. . . . .</b>	26
<b>d'Espagnat, Bernard; On Physics and Philosophy. . . . .</b>	26
<b>Dirac, P. A.M.; General Theory of Relativity. . . . .</b>	15
<b>Disturbing the Solar System: Impacts, Close Encounters, and Coming Attractions;</b> Alan E. Rubin. . . . .	30
<b>Draine, Bruce T.; Physics of the Interstellar and Intergalactic Medium. . . . .</b>	15
<b>Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition;</b> Chris Impey. . . . .	28
<b>Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration;</b> Chris Impey. . . . .	28
<b>Durham, Frank; Frame of the Universe: A History of Physical Cosmology. . . . .</b>	26
<b>Dynamic Structure of the Deep Earth, The: An Interdisciplinary Approach;</b> Shun-Ichiro Karato. . . . .	28
<b>Dynamics and Evolution of Galactic Nuclei;</b> David Merritt . . . . .	29, 29
<b>Earthquake and Volcano Deformation;</b> Paul Segall. . . . .	30
<b>Echo of the Big Bang;</b> Michael D. Lemonick. . . . .	28
<b>Edmonds, A. R.; Angular Momentum in Quantum Mechanics . . . . .</b>	26
<b>Ehrlich, Robert; Turning the World Inside Out and 174 Other Simple Physics Demonstrations. . . . .</b>	26
<b>Ehrlich, Robert; Why Toast Lands Jelly-Side Down: Zen and the Art of Physics Demonstrations. . . . .</b>	26
<b>Einstein and Religion: Physics and Theology;</b> Max Jammer . . . . .	28
<b>Einstein and the Quantum: The Quest of the Valiant Swabian;</b> A. Douglas Stone. . . . .	30
<b>Einstein Encyclopedia, An;</b> Alice Calaprice. . . . .	25
<b>Einstein for the 21st Century: His Legacy in Science, Art, and Modern Culture. . . . .</b>	27
<b>Einstein Gravity in a Nutshell;</b> A. Zee. . . . .	22



<b>Einstein on Einstein: Autobiographical and Scientific Reflections</b> ; Jürgen Renn. . . . .	14	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 5 (English): The Swiss Years: Correspondence, 1902-1914. (English translation supplement). . . . .	26
<b>Einstein Was Right: The Science and History of Gravitational Waves</b> . . . . .	15	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 5: The Swiss Years: Correspondence, 1902-1914 . . . . .	27
Einstein, Albert; Albert Einstein, Mileva Maric: The Love Letters . . . . .	26	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 6 (English): The Berlin Years: Writings, 1914-1917. (English translation supplement). . . . .	26
Einstein, Albert; Einstein's Miraculous Year: Five Papers That Changed the Face of Physics. . . . .	27	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 6: The Berlin Years: Writings, 1914-1917. . . . .	26
Einstein, Albert; Relativity: The Special and the General Theory - 100th Anniversary Edition. . . . .	7, 27	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 7 (English): The Berlin Years: Writings, 1918-1921. (English translation of selected texts). . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 1 (English): The Early Years, 1879-1902. (English translation supplement). . . . .	26	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 7: The Berlin Years: Writings, 1918-1921. . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 1: The Early Years, 1879-1902. . . . .	26	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 8 (English): The Berlin Years: Correspondence, 1914-1918. (English supplement translation.) . . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 10 (English): The Berlin Years: Correspondence, May-December 1920, and Supplementary Correspondence, 1909-1920. (English translation of selected texts). . . . .	26	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 8: The Berlin Years: Correspondence, 1914-1918 . . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 10: The Berlin Years: Correspondence, May-December 1920, and Supplementary Correspondence, 1909-1920 - Documentary Edition. . . . .	27	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 9. (English): The Berlin Years: Correspondence, January 1919 - April 1920. (English translation of selected texts). . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 11: Cumulative Index, Bibliography, List of Correspondence, Chronology, and Errata to Volumes 1-10 . . . . .	26	Einstein, Albert; The Collected Papers of Albert Einstein, Volume 9: The Berlin Years: Correspondence, January 1919 - April 1920. . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 12 (English): The Berlin Years: Correspondence, January-December 1921 (English translation supplement) . . . . .	26	Einstein, Albert; The Meaning of Relativity: Including the Relativistic Theory of the Non-Symmetric Field - Fifth Edition . . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 12: The Berlin Years: Correspondence, January-December 1921 - Documentary Edition. . . . .	26	Einstein, Albert; The Ultimate Quotable Einstein. . . . .	12, 27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 13: The Berlin Years: Writings & Correspondence, January 1922 - March 1923 - Documentary Edition. . . . .	26	<b>Einstein: A Hundred Years of Relativity</b> ; Andrew Robinson . . . . .	30
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 13: The Berlin Years: Writings & Correspondence, January 1922 - March 1923 (English Translation Supplement) . . . . .	26	<b>Einstein's Jury: The Race to Test Relativity</b> ; Jeffrey Crellin. . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 14 (English): The Berlin Years: Writings & Correspondence, April 1923–May 1925 (English Translation Supplement) - Documentary Edition. . . . .	26	<b>Einstein's Miraculous Year: Five Papers That Changed the Face of Physics</b> ; Albert Einstein. . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 14: The Berlin Years: Writings & Correspondence, April 1923–May 1925 - Documentary Edition. . . . .	26	<b>Elasticity and Fluid Dynamics: Volume 3 of Modern Classical Physics</b> ; Kip S. Thorne. . . . .	16
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 15 (Translation Supplement): The Berlin Years: Writings & Correspondence, June 1925–May 1927. . . . .	27	<b>Electromagnetic Processes</b> ; Robert J. Gould. . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 15: The Berlin Years: Writings & Correspondence, June 1925–May 1927 - Documentary Edition. . . . .	26	<b>Elementary Particle Physics in a Nutshell</b> ; Christopher G. Tully. . . . .	30
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 2 (English): The Swiss Years: Writings, 1900-1909. (English translation supplement). . . . .	26	<b>Encounters with Einstein: And Other Essays on People, Places, and Particles</b> ; Werner Heisenberg. . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 2: The Swiss Years: Writings, 1900-1909. . . . .	26	<b>Energy Landscapes, Inherent Structures, and Condensed-Matter Phenomena</b> ; Frank H. Stillinger. . . . .	30
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 3 (English): The Swiss Years: Writings, 1909-1911. (English translation supplement). . . . .	26	<b>Essential Radio Astronomy</b> ; James J. Condon. . . . .	26
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 3: The Swiss Years: Writings, 1909-1911. . . . .	26	Evans, James; Geminus's Introduction to the Phenomena: A Translation and Study of a Hellenistic Survey of Astronomy . . . . .	27
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 4 (English): The Swiss Years: Writings, 1912-1914. (English translation supplement). . . . .	26	<b>Everett Interpretation of Quantum Mechanics, The: Collected Works 1955-1980 with Commentary</b> . . . . .	25
Einstein, Albert; The Collected Papers of Albert Einstein, Volume 4: The Swiss Years: Writings, 1912-1914. . . . .	26	<b>Exoplanet Atmospheres: Physical Processes</b> ; Sara Seager . . . . .	30
		<b>Exoplanetary Atmospheres: Theoretical Concepts and Foundations</b> ; Kevin Heng. . . . .	27
		<b>Explaining the Universe: The New Age of Physics</b> ; John M. Charap. . . . .	25
		<b>Exploding Stars and Invisible Planets: The Science of What's Out There</b> ; Fred Watson. . . . .	30
		<b>Extravagant Universe, The: Exploding Stars, Dark Energy, and the Accelerating Cosmos</b> ; Robert P. Kirshner. . . . .	28
		<b>Eye and Brain: The Psychology of Seeing - Fifth Edition</b> ; Richard L. Gregory. . . . .	15
		<b>Fashion, Faith, and Fantasy in the New Physics of the Universe</b> ; Roger Penrose. . . . .	5

<b>Fearful Symmetry: The Search for Beauty in Modern Physics</b> ; A. Zee. . . . .	31
Feynman, Richard P.; QED: The Strange Theory of Light and Matter. . . . .	15
<b>First Galaxies in the Universe, The</b> ; Abraham Loeb. . . . .	28, 28
Flexner, Abraham; The Usefulness of Useless Knowledge . . . . .	13
<b>Flight to Mercury</b> ; Bruce C. Murray. . . . .	29
<b>Fly by Night Physics: How Physicists Use the Backs of Envelopes</b> ; A. Zee. . . . .	6
<b>Fly Me to the Moon: An Insider's Guide to the New Science of Space Travel</b> ; Edward Belbruno. . . . .	25
<b>Formative Years of Relativity, The: The History and Meaning of Einstein's Princeton Lectures</b> ; Hanoch Gutfreund. . . . .	27
Fradkin, Eduardo; Quantum Field Theory: An Integrated Approach. . . . .	21
<b>Frame of the Universe: A History of Physical Cosmology</b> ; Frank Durham. . . . .	26
Frebel, Anna; Searching for the Oldest Stars: Ancient Relics from the Early Universe. . . . .	27
Freese, Katherine; The Cosmic Cocktail: Three Parts Dark Matter. . . . .	27
Fritzsche, Harald; The Curvature of Spacetime: Newton, Einstein, and Gravitation. . . . .	27
<b>From c-Numbers to q-Numbers: The Classical Analogy in the History of Quantum Theory</b> ; Olivier Darrigol. . . . .	26, 26
<b>From Dust to Life: The Origin and Evolution of Our Solar System</b> ; John Chambers. . . . .	25, 25
<b>From Photon to Neuron: Light, Imaging, Vision</b> ; Philip Nelson. . . . .	29, 29
<b>Fundamentals of Spacecraft Charging: Spacecraft Interactions with Space Plasmas</b> ; Shu T. Lai. . . . .	28
<b>Galactic Astronomy</b> ; James Binney. . . . .	20
<b>Galactic Dynamics: Second Edition</b> ; James Binney. . . . .	20
<b>Galactic Supermassive Black Hole, The</b> ; Fulvio Melia. . . . .	29
Galilei, Galileo; Galileo on the World Systems: A New Abridged Translation and Guide. . . . .	27
<b>Galileo Affair, The: A Documentary History</b> . . . . .	27
<b>Galileo on the World Systems: A New Abridged Translation and Guide</b> ; Galileo Galilei. . . . .	27
Garg, Anupam; Classical Electromagnetism in a Nutshell. . . . .	27
<b>Gauge Theories of the Strong, Weak, and Electromagnetic Interactions: Second Edition</b> ; Chris Quigg. . . . .	30
<b>Geminus's Introduction to the Phenomena: A Translation and Study of a Hellenistic Survey of Astronomy</b> ; James Evans. . . . .	27
<b>General Theory of Relativity</b> ; P. A.M. Dirac. . . . .	15
Ghirardi, Giancarlo; Sneaking a Look at God's Cards: Unraveling the Mysteries of Quantum Mechanics - Revised Edition. . . . .	27
Glatzmaier, Gary A.; Introduction to Modeling Convection in Planets and Stars: Magnetic Field, Density Stratification, Rotation. . . . .	27, 27
Goldberg, Dave; The Standard Model in a Nutshell. . . . .	27
González-viñas, Wenceslao; An Introduction to Materials Science. . . . .	27
Gott, J. Richard; The Cosmic Web: Mysterious Architecture of the Universe. . . . .	27, 27
Gould, Harvey; Statistical and Thermal Physics: With Computer Applications. . . . .	27
Gould, Harvey; Statistical and Thermal Physics: With Computer Applications, Second Edition. . . . .	27
Gould, Robert J.; Electromagnetic Processes. . . . .	27
<b>Gravitation and Inertia</b> ; Ignazio Ciufolini. . . . .	25
<b>Gravitation</b> ; Charles W. Misner. . . . .	21
Gray, Richard O.; Stellar Spectral Classification. . . . .	27
Gregory, Richard L.; Eye and Brain: The Psychology of Seeing - Fifth Edition. . . . .	15
<b>Group Theory in a Nutshell for Physicists</b> ; A. Zee. . . . .	23
Gubser, Steven S.; The Little Book of Black Holes. . . . .	4
Gubser, Steven S.; The Little Book of String Theory. . . . .	4
Gutfreund, Hanoch; The Formative Years of Relativity: The History and Meaning of Einstein's Princeton Lectures. . . . .	27
Gutfreund, Hanoch; The Road to Relativity: The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece . . . . .	27, 27
Hamilton, Douglas; Building Physical Intuition. . . . .	27
Hand, Kevin; Alien Oceans: The Search for Life in the Depths of Space. . . . .	2, 27
Hawking, Stephen; The Nature of Space and Time. . . . .	6
Heard, Stephen B.; The Scientist's Guide to Writing: How to Write More Easily and Effectively throughout Your Scientific Career. . . . .	13
<b>Heart of Darkness: Unraveling the Mysteries of the Invisible Universe</b> ; Jeremiah P. Ostriker. . . . .	29, 29
<b>Heavenly Errors: Misconceptions About the Real Nature of the Universe</b> ; Neil F. Comins. . . . .	25, 25
<b>Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe</b> ; James B. Kaler . . . . .	28
Heisenberg, Werner; Encounters with Einstein: And Other Essays on People, Places, and Particles. . . . .	27
Heller, Eric J.; The Semiclassical Way to Dynamics and Spectroscopy. . . . .	27
Heller, Eric J.; Why You Hear What You Hear: An Experiential Approach to Sound, Music, and Psychoacoustics. . . . .	27
Heng, Kevin; Exoplanetary Atmospheres: Theoretical Concepts and Foundations. . . . .	27
<b>Hidden Worlds: Hunting for Quarks in Ordinary Matter</b> ; Timothy Paul Smith. . . . .	30
<b>High Energy Radiation from Black Holes: Gamma Rays, Cosmic Rays, and Neutrinos</b> ; Charles D. Dermer. . . . .	26
<b>High-Energy Astrophysics</b> ; Fulvio Melia. . . . .	29
<b>Hölder Continuous Euler Flows in Three Dimensions with Compact Support in Time: (AMS-196)</b> ; Philip Isett. . . . .	28, 28
Holland, Heinrich D.; The Chemical Evolution of the Atmosphere and Oceans. . . . .	28
Hooper, Dan; At the Edge of Time: Exploring the Mysteries of Our Universe's First Seconds. . . . .	10, 28
<b>Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable</b> ; Paul J. Nahin. . . . .	8
<b>How Did the First Stars and Galaxies Form?</b> ; Abraham Loeb . . . . .	28
<b>How Do You Find an Exoplanet?</b> ; John Asher Johnson. . . . .	28
<b>How Old Is the Universe?</b> ; David A. Weintraub. . . . .	30
<b>How to Find a Habitable Planet</b> ; James Kasting. . . . .	28
Hubeny, Ivan; Theory of Stellar Atmospheres: An Introduction to Astrophysical Non-equilibrium Quantitative Spectroscopic Analysis. . . . .	28
Impey, Chris; Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration. . . . .	28
Impey, Chris; Dreams of Other Worlds: The Amazing Story of Unmanned Space Exploration - Revised and Updated Edition . . . . .	28
<b>In Praise of Simple Physics: The Science and Mathematics behind Everyday Questions</b> ; Paul J. Nahin. . . . .	10, 29
<b>Inside Relativity</b> ; Delo E. Mook. . . . .	29
<b>Interpreting Bodies: Classical and Quantum Objects in Modern Physics</b> . . . . .	25
<b>Interpretive Introduction to Quantum Field Theory, An</b> ; Paul Teller. . . . .	30

<b>Introduction to Materials Science, An;</b> Wenceslao González-viñas. . . . .	27
<b>Introduction to Modeling Convection in Planets and Stars: Magnetic Field, Density Stratification, Rotation;</b> Gary A. Glatzmaier. . . . .	27, 27
<b>Introduction to the Coriolis Force, An;</b> Henry M. Stommel . . . . .	30, 30
<b>Introduction to X-Ray Physics, Optics, and Applications, An;</b> Carolyn A. MacDonald. . . . .	29
<b>Is Pluto a Planet?: A Historical Journey through the Solar System;</b> David A. Weintraub. . . . .	30
Isett, Philip; Hölder Continuous Euler Flows in Three Dimensions with Compact Support in Time: (AMS-196) . . . . .	28, 28
<b>It's About Time: Understanding Einstein's Relativity;</b> N. David Mermin. . . . .	9, 29
Ivezic, Željko; Statistics, Data Mining, and Machine Learning in Astronomy: A Practical Python Guide for the Analysis of Survey Data. . . . .	28
Ivezic, Željko; Statistics, Data Mining, and Machine Learning in Astronomy: A Practical Python Guide for the Analysis of Survey Data, Updated Edition. . . . .	28
<b>Jahn-Teller Effect in C60 and Other Icosahedral Complexes, The;</b> C. C. Chancey. . . . .	25
Jammer, Max; Concepts of Mass in Contemporary Physics and Philosophy. . . . .	28
Jammer, Max; Einstein and Religion: Physics and Theology . . . . .	28
Jayawardhana, Ray; Strange New Worlds: The Search for Alien Planets and Life beyond Our Solar System. . . . .	28
Joannopoulos, John D.; Photonic Crystals: Molding the Flow of Light - Second Edition. . . . .	28
Johnson, John Asher; How Do You Find an Exoplanet?. . . . .	28
Jorgensen, Timothy J.; Spark: The Life of Electricity and the Electricity of Life. . . . .	2
Jorgensen, Timothy J.; Strange Glow: The Story of Radiation . . . . .	14, 28
Joseph, George Gheverghese; The Crest of the Peacock: Non-European Roots of Mathematics - Third Edition. . . . .	28
Josephson, Paul R.; Physics and Politics in Revolutionary Russia. . . . .	28
Kaler, James B.; Heaven's Touch: From Killer Stars to the Seeds of Life, How We Are Connected to the Universe. . . . .	28
Karato, Shun-Ichiro; The Dynamic Structure of the Deep Earth: An Interdisciplinary Approach. . . . .	28
Kasting, James; How to Find a Habitable Planet. . . . .	28
<b>Keep Watching the Skies! The Story of Operation Moonwatch and the Dawn of the Space Age;</b> W. Patrick McCray. . . . .	29
Kennefick, Daniel; No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity. . . . .	15
Kennefick, Daniel; Traveling at the Speed of Thought: Einstein and the Quest for Gravitational Waves. . . . .	28
<b>Kepler's Philosophy and the New Astronomy;</b> Rhonda Martens. . . . .	29
<b>Key to Newton's Dynamics, The: The Kepler Problem and the Principia;</b> J. Bruce Brackenridge. . . . .	25
Kinder, Jesse M.; A Student's Guide to Python for Physical Modeling: Second Edition. . . . .	28, 28
Kiritzis, Elias; String Theory in a Nutshell: Second Edition . . . . .	24
Kirshner, Robert P.; The Extravagant Universe: Exploding Stars, Dark Energy, and the Accelerating Cosmos. . . . .	28
Krolik, Julian H; Active Galactic Nuclei: From the Central Black Hole to the Galactic Environment. . . . .	28
Kulsrud, Russell M.; Plasma Physics for Astrophysics. . . . .	28

Lai, Shu T.; Fundamentals of Spacecraft Charging: Spacecraft Interactions with Space Plasmas. . . . .	28
Landau, Ruben H.; A Survey of Computational Physics: Introductory Computational Science. . . . .	28
Langacker, Paul; Can the Laws of Physics Be Unified?. . . . .	28
<b>Large-Scale Structure of the Universe, The;</b> P. J. E. Peebles . . . . .	18, 29
<b>Lectures on the Infrared Structure of Gravity and Gauge Theory;</b> Andrew Strominger. . . . .	30, 30
Lemonick, Michael D.; Echo of the Big Bang. . . . .	28
Lemons, Don S.; Perfect Form: Variational Principles, Methods, and Applications in Elementary Physics. . . . .	28
Levy, David H.; Shoemaker by Levy: The Man Who Made an Impact. . . . .	28
Lewis, John; Space Resources: Breaking the Bonds of Earth . . . . .	28
Lewis, Richard S.; The Voyages of Columbia: The First True Spaceship. . . . .	28
Libbrecht, Kenneth G.; Snow Crystals: A Case Study in Spontaneous Structure Formation. . . . .	15
<b>Life on Mars: What to Know Before We Go;</b> David A. Weintraub. . . . .	30, 31
Lightman, Alan P.; Problem Book in Relativity and Gravitation . . . . .	15, 28
<b>Little Book of Black Holes, The;</b> Steven S. Gubser. . . . .	4
<b>Little Book of Cosmology, The;</b> Lyman Page. . . . .	3
<b>Little Book of String Theory, The;</b> Steven S. Gubser. . . . .	4
Loeb, Abraham; How Did the First Stars and Galaxies Form? . . . . .	28
Loeb, Abraham; The First Galaxies in the Universe. . . . .	28, 28
Lorenz, Ralph; Titan Unveiled: Saturn's Mysterious Moon Explored. . . . .	28
MacDonald, Carolyn; An Introduction to X-Ray Physics, Optics, and Applications. . . . .	29
Mahan, Gerald D.; Condensed Matter in a Nutshell. . . . .	29
Mahan, Gerald D.; Quantum Mechanics in a Nutshell. . . . .	29
<b>Man Discovers the Galaxies;</b> Richard Berendzen. . . . .	25
<b>Mankind Beyond Earth: The History, Science, and Future of Human Space Exploration;</b> Claude A. Piantadosi. . . . .	29, 29
Maoz, Dan; Astrophysics in a Nutshell: Second Edition. . . . .	22
Marschall, Laurence; The Supernova Story. . . . .	29
Martens, Rhonda; Kepler's Philosophy and the New Astronomy . . . . .	29
<b>Master of Modern Physics: The Scientific Contributions of H. A. Kramers;</b> D. ter Haar. . . . .	30
<b>Mathematical Foundations of Quantum Mechanics: New Edition;</b> John von Neumann. . . . .	30, 30
<b>Mathematical Foundations of Quantum Mechanics;</b> John von Neumann. . . . .	30
<b>Mathematical Methods for Geophysics and Space Physics;</b> William I. Newman. . . . .	29
<b>Mathematics and Democracy: Designing Better Voting and Fair-Division Procedures;</b> Steven J. Brams. . . . .	25
<b>Mathematics for Physics and Physicists;</b> Walter Appel. . . . .	25
Maudlin, Tim; Philosophy of Physics: Quantum Theory. . . . .	29
Maudlin, Tim; Philosophy of Physics: Space and Time. . . . .	9
McCray, W. Patrick; Keep Watching the Skies!: The Story of Operation Moonwatch and the Dawn of the Space Age. . . . .	29
<b>Meaning of Relativity, The: Including the Relativistic Theory of the Non-Symmetric Field - Fifth Edition;</b> Albert Einstein. . . . .	27
Melia, Fulvio; High-Energy Astrophysics. . . . .	29
Melia, Fulvio; The Black Hole at the Center of Our Galaxy . . . . .	29
Melia, Fulvio; The Galactic Supermassive Black Hole. . . . .	29



<b>Memory: The Key to Consciousness</b> ; Richard F. Thompson	
.....	30
Mermin, N. David; It's About Time: Understanding Einstein's Relativity	9, 29
Merritt, David; Dynamics and Evolution of Galactic Nuclei	29, 29
<b>Metapatterns: Across Space, Time, and Mind</b> ; Tyler Volk	30
<b>Metastable Liquids: Concepts and Principles</b> ; Pablo G. Debenedetti	26
<b>Milky Way, The: An Insider's Guide</b> ; William H. Waller	30
Misner, Charles W.; Gravitation	21
<b>Modern Astrodynamics: Fundamentals and Perturbation Methods</b> ; Victor R. Bond	25
<b>Modern Classical Physics: Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical Physics</b> ; Kip S. Thorne	16
Mook, Delo E.; Inside Relativity	29
<b>More is Different: Fifty Years of Condensed Matter Physics</b>	29
<b>More Surprises in Theoretical Physics</b> ; Rudolf Peierls	29
<b>More Things in the Heavens: How Infrared Astronomy Is Expanding Our View of the Universe</b> ; Michael Werner	31
Moser, Jurgen; Stable and Random Motions in Dynamical Systems: With Special Emphasis on Celestial Mechanics (AM-77)	29
Muller, Richard A.; Physics and Technology for Future Presidents: An Introduction to the Essential Physics Every World Leader Needs to Know	15
Murray, Bruce; Flight to Mercury	29
<b>Mystery of the Missing Antimatter, The</b> ; Helen R. Quinn	30
Nahin, Paul J.; Hot Molecules, Cold Electrons: From the Mathematics of Heat to the Development of the Trans-Atlantic Telegraph Cable	8
Nahin, Paul J.; In Praise of Simple Physics: The Science and Mathematics behind Everyday Questions	10, 29
<b>Natural Complexity: A Modeling Handbook</b> ; Paul Charbonneau	25, 25
<b>Nature of Space and Time, The</b> ; Stephen Hawking	6
<b>Near-Earth Objects: Finding Them Before They Find Us</b> ; Donald K. Yeomans	31, 31
Nelson, Edward; Quantum Fluctuations	29
Nelson, Philip; From Photon to Neuron: Light, Imaging, Vision	29, 29
Newbury, Nathan; Princeton Problems in Physics with Solutions	29
Newman, William I.; Mathematical Methods for Geophysics and Space Physics	29
Newman, William; Newton the Alchemist: Science, Enigma, and the Quest for Nature's "Secret Fire"	15
<b>Newton the Alchemist: Science, Enigma, and the Quest for Nature's "Secret Fire"</b> ; William R. Newman	15
Newton, Isaac; The Principia: The Authoritative Translation and Guide: Mathematical Principles of Natural Philosophy	11, 29
Newton, Isaac; The Principia: The Authoritative Translation: Mathematical Principles of Natural Philosophy	11, 29
Newton, Roger G.; Thinking about Physics	29
<b>No Shadow of a Doubt: The 1919 Eclipse That Confirmed Einstein's Theory of Relativity</b> ; Daniel Kennefick	15
<b>Nuclear Physics in a Nutshell</b> ; Carlos A. Bertulani	23
<b>Odd Quantum, The</b> ; Sam Treiman	30
Omnès, Roland; Quantum Philosophy: Understanding and Interpreting Contemporary Science	29
Omnès, Roland; Understanding Quantum Mechanics	29
<b>On Gravity: A Brief Tour of a Weighty Subject</b> ; A. Zee	8, 31
<b>On Physics and Philosophy</b> ; Bernard D'espagnat	26
<b>On Physics and Philosophy</b> ; Bernard d'Espagnat	26
<b>Optics: Volume 2 of Modern Classical Physics</b> ; Kip S. Thorne	17
O'Raifeartaigh, Lochlainn; The Dawning of Gauge Theory	29
Oreskes, Naomi; Why Trust Science?	7
Ostriker, Jeremiah P.; Heart of Darkness: Unraveling the Mysteries of the Invisible Universe	29, 29
<b>Our Cosmic Habitat: New Edition</b> ; Martin Rees	5
<b>Outpost on Apollo's Moon</b> ; Eric Burgess	25
Page, Lyman; The Little Book of Cosmology	3
Parker, Eugene N.; Conversations on Electric and Magnetic Fields in the Cosmos	29
<b>Particle or Wave: The Evolution of the Concept of Matter in Modern Physics</b> ; Charis Anastopoulos	25
<b>PCT, Spin and Statistics, and All That</b> ; Raymond F. Streater	30
Peebles, P. J. E.; Cosmology's Century: An Inside History of Our Modern Understanding of the Universe	18
Peebles, P. J. E.; Principles of Physical Cosmology	19, 29
Peebles, P. J. E.; Quantum Mechanics	19, 29
Peebles, P. J. E.; The Large-Scale Structure of the Universe	18, 29
Peierls, R; Surprises in Theoretical Physics	29
Peierls, Rudolf; More Surprises in Theoretical Physics	29
Peliti, Luca; Statistical Mechanics in a Nutshell	29
Penrose, Roger; Fashion, Faith, and Fantasy in the New Physics of the Universe	5
<b>Perfect Form: Variational Principles, Methods, and Applications in Elementary Physics</b> ; Don S. Lemons	28
<b>Phase Transitions</b> ; Ricard Solé	30
<b>Philosophy of Physics: Quantum Theory</b> ; Tim Maudlin	29
<b>Philosophy of Physics: Space and Time</b> ; Tim Maudlin	9
<b>Photonic Crystals: Molding the Flow of Light - Second Edition</b> ; John D. Joannopoulos	28
<b>Physicist and the Philosopher, The: Einstein, Bergson, and the Debate That Changed Our Understanding of Time</b> ; Jimena Canales	15
<b>Physics and Politics in Revolutionary Russia</b> ; Paul R. Josephson	28
<b>Physics and Technology for Future Presidents: An Introduction to the Essential Physics Every World Leader Needs to Know</b> ; Richard A. Muller	15
<b>Physics of Neutrinos, The</b> ; Vernon Barger	25
<b>Physics of the Interstellar and Intergalactic Medium</b> ; Bruce T. Draine	15
Piantadosi, Claude; Mankind Beyond Earth: The History, Science, and Future of Human Space Exploration	29, 29
<b>Plasma Physics for Astrophysics</b> ; Russell M. Kulsrud	28
<b>Princeton Guide to Advanced Physics</b> ; Alan C. Tribble	30
<b>Princeton Problems in Physics with Solutions</b> ; Nathan Newbury	29
<b>Principia: The Authoritative Translation and Guide, The: Mathematical Principles of Natural Philosophy</b> ; Isaac Newton	11, 29
<b>Principia: The Authoritative Translation, The: Mathematical Principles of Natural Philosophy</b> ; Isaac Newton	11, 29
<b>Principles of Laser Spectroscopy and Quantum Optics</b> ; Paul R. Berman	25
<b>Principles of Physical Cosmology</b> ; P. J. E. Peebles	19, 29
<b>Problem Book in Relativity and Gravitation</b> ; Alan P. Lightman	15, 28

<b>QED: The Strange Theory of Light and Matter</b> ; Richard P. Feynman. . . . .	15	<b>Space Resources: Breaking the Bonds of Earth</b> ; John S. Lewis. . . . .	28
<b>Quantum Field Theory in a Nutshell: Second Edition</b> ; A. Zee. . . . .	24	<b>Spark: The Life of Electricity and the Electricity of Life</b> ; Timothy J. Jorgensen. . . . .	2
<b>Quantum Field Theory: An Integrated Approach</b> ; Eduardo Fradkin. . . . .	21	<b>Stable and Random Motions in Dynamical Systems: With Special Emphasis on Celestial Mechanics (AM-77)</b> ; Jürgen Moser. . . . .	29
<b>Quantum Fluctuations</b> ; Edward Nelson. . . . .	29	<b>Standard Model in a Nutshell, The</b> ; Dave Goldberg. . . . .	27
<b>Quantum Many-Body Physics in a Nutshell</b> ; Edward Shuryak. . . . .	30	<b>Statistical and Thermal Physics: With Computer Applications, Second Edition</b> ; Harvey Gould. . . . .	27
<b>Quantum Mechanics and Its Emergent Macrophysics</b> ; Geoffrey Sewell. . . . .	30	<b>Statistical and Thermal Physics: With Computer Applications</b> ; Harvey Gould. . . . .	27
<b>Quantum Mechanics in a Nutshell</b> ; Gerald D. Mahan. . . . .	29	<b>Statistical Mechanics in a Nutshell</b> ; Luca Peliti. . . . .	29
<b>Quantum Mechanics</b> ; P. J. E. Peebles. . . . .	19, 29	<b>Statistical Physics: Volume 1 of Modern Classical Physics</b> ; Kip S. Thorne. . . . .	17
<b>Quantum Philosophy: Understanding and Interpreting Contemporary Science</b> ; Roland Omnès. . . . .	29	<b>Statistics, Data Mining, and Machine Learning in Astronomy: A Practical Python Guide for the Analysis of Survey Data, Updated Edition</b> ; Željko Ivezić. . . . .	28
Quigg, Chris; Gauge Theories of the Strong, Weak, and Electromagnetic Interactions: Second Edition. . . . .	30	<b>Statistics, Data Mining, and Machine Learning in Astronomy: A Practical Python Guide for the Analysis of Survey Data</b> ; Željko Ivezić. . . . .	28
Quinn, Helen R.; The Mystery of the Missing Antimatter. . . . .	30	<b>Stellar Spectral Classification</b> ; Richard O. Gray. . . . .	27
Rees, Martin; Our Cosmic Habitat: New Edition. . . . .	5	Stillinger, Frank H.; Energy Landscapes, Inherent Structures, and Condensed-Matter Phenomena. . . . .	30
<b>Relativity: The Special and the General Theory - 100th Anniversary Edition</b> ; Albert Einstein. . . . .	7, 27	Stommel, Henry; An Introduction to the Coriolis Force . . . . .	30, 30
Renn, Jürgen; Einstein on Einstein: Autobiographical and Scientific Reflections. . . . .	14	Stone, A. Douglas; Einstein and the Quantum: The Quest of the Valiant Swabian. . . . .	30
<b>Renormalization Group</b> ; Giuseppe Benfatto. . . . .	25	<b>Strange Glow: The Story of Radiation</b> ; Timothy J. Jorgensen . . . . .	14, 28
<b>Return To the Red Planet</b> ; Eric Burgess. . . . .	25	<b>Strange New Worlds: The Search for Alien Planets and Life beyond Our Solar System</b> ; Ray Jayawardhana. . . . .	28
<b>Road to Relativity, The: The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece</b> ; Hanoch Gutfreund. . . . .	27, 27	Streater, Raymond F.; PCT, Spin and Statistics, and All That . . . . .	30
Robinson, Andrew; Einstein: A Hundred Years of Relativity . . . . .	30	Strikman, Mark; Applications of Modern Physics in Medicine . . . . .	30
Rubakov, Valery; Classical Theory of Gauge Fields. . . . .	30	<b>String Theory in a Nutshell: Second Edition</b> ; Elias Kiritsis . . . . .	24
Rubin, Alan E.; Disturbing the Solar System: Impacts, Close Encounters, and Coming Attractions. . . . .	30	Strominger, Andrew; Lectures on the Infrared Structure of Gravity and Gauge Theory. . . . .	30, 30
Sartori, Leo; Understanding Relativity: A Simplified Approach to Einstein's Theories. . . . .	30	<b>Student's Guide to Python for Physical Modeling, A: Second Edition</b> ; Jesse M. Kinder. . . . .	28, 28
Schechner, Sara; Comets, Popular Culture, and the Birth of Modern Cosmology. . . . .	30	<b>Sun Kings, The: The Unexpected Tragedy of Richard Carrington and the Tale of How Modern Astronomy Began</b> ; Stuart Clark. . . . .	25
<b>Scientist's Guide to Writing, The: How to Write More Easily and Effectively throughout Your Scientific Career</b> ; Stephen B. Heard. . . . .	13	<b>Supernova Story, The</b> ; Laurence Marschall. . . . .	29
Seager, Sara; Exoplanet Atmospheres: Physical Processes . . . . .	30	<b>Supernovae and Nucleosynthesis: An Investigation of the History of Matter, from the Big Bang to the Present</b> ; David Arnett. . . . .	25
<b>Searching for the Oldest Stars: Ancient Relics from the Early Universe</b> ; Anna Frebel. . . . .	27	<b>Supersymmetry and Supergravity: Revised Edition</b> ; Julius Wess. . . . .	31
Segall, Paul; Earthquake and Volcano Deformation. . . . .	30	<b>Surprises in Theoretical Physics</b> ; R Peierls. . . . .	29
<b>Semiclassical Way to Dynamics and Spectroscopy, The</b> ; Eric J. Heller. . . . .	27	<b>Survey of Computational Physics, A: Introductory Computational Science</b> ; Rubin H. Landau. . . . .	28
Sewell, Geoffrey; Quantum Mechanics and Its Emergent Macrophysics. . . . .	30	Tassoul, Jean-Louis; A Concise History of Solar and Stellar Physics. . . . .	28
<b>Shoemaker by Levy: The Man Who Made an Impact</b> ; David H. Levy. . . . .	28	Teller, Paul; An Interpretive Introduction to Quantum Field Theory. . . . .	30
Shuryak, Edward; Quantum Many-Body Physics in a Nutshell . . . . .	30	ter Haar, D.; Master of Modern Physics: The Scientific Contributions of H. A. Kramers. . . . .	30
Silverman, Mark P.; Waves and Grains: Reflections on Light and Learning. . . . .	30	<b>Tests of Time, The: Readings in the Development of Physical Theory</b> . . . . .	26
Smith, Timothy Paul; Hidden Worlds: Hunting for Quarks in Ordinary Matter. . . . .	30	<b>Theory of Stellar Atmospheres: An Introduction to Astrophysical Non-equilibrium Quantitative Spectroscopic Analysis</b> ; Ivan Hubeny. . . . .	28
<b>Sneaking a Look at God's Cards: Unraveling the Mysteries of Quantum Mechanics - Revised Edition</b> ; Giancarlo Ghirardi. . . . .	27	<b>Thinking about Physics</b> ; Roger G. Newton. . . . .	29
<b>Snow Crystals: A Case Study in Spontaneous Structure Formation</b> ; Kenneth G. Libbrecht. . . . .	15		
Solé, Ricard; Phase Transitions. . . . .	30		
<b>Space Environment, The: Implications for Spacecraft Design - Revised and Expanded Edition</b> ; Alan C. Tribble . . . . .	30		

Thompson, Richard F.; <i>Memory: The Key to Consciousness</i> . . . . .	30	Weintraub, David A.; <i>Is Pluto a Planet?: A Historical Journey through the Solar System</i> . . . . .	30
Thorne, Kip S.; <i>Elasticity and Fluid Dynamics: Volume 3 of Modern Classical Physics</i> . . . . .	16	Weintraub, David A.; <i>Life on Mars: What to Know Before We Go</i> . . . . .	30, 31
Thorne, Kip S.; <i>Modern Classical Physics: Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical Physics</i> . . . . .	16	<b>Welcome to the Universe: An Astrophysical Tour</b> ; Neil Degrasse Tyson. . . . .	1
Thorne, Kip S.; <i>Optics: Volume 2 of Modern Classical Physics</i> . . . . .	17	<b>Welcome to the Universe: The Problem Book</b> ; Neil deGrasse Tyson. . . . .	30
Thorne, Kip S.; <i>Statistical Physics: Volume 1 of Modern Classical Physics</i> . . . . .	17	<b>Welcome to the Universe: The Problem Book</b> ; Neil Degrasse Tyson. . . . .	12
<b>Titan Unveiled: Saturn's Mysterious Moon Explored</b> ; Ralph Lorenz. . . . .	28	Werner, Michael; <i>More Things in the Heavens: How Infrared Astronomy Is Expanding Our View of the Universe</i> . . . . .	31
<b>To the Red Planet</b> ; Eric Burgess. . . . .	25	Wess, Julius; <i>Supersymmetry and Supergravity: Revised Edition</i> . . . . .	31
<b>Topological Insulators and Topological Superconductors</b> ; B. Andrei Bernevig. . . . .	25	<b>What Are Gamma-Ray Bursts?</b> ; Joshua S. Bloom. . . . .	25
<b>Totally Random: Why Nobody Understands Quantum Mechanics (A Serious Comic on Entanglement)</b> ; Tanya Bub . . . . .	15	<b>What Does a Black Hole Look Like?</b> ; Charles D. Bailyn. . . . .	25
<b>Traveler's Guide to Space, The: For One-Way Settlers and Round-Trip Tourists</b> ; Neil F. Comins. . . . .	26	<b>What Is Relativity?: An Intuitive Introduction to Einstein's Ideas, and Why They Matter</b> ; Jeffrey Bennett. . . . .	25, 25
<b>Traveling at the Speed of Thought: Einstein and the Quest for Gravitational Waves</b> ; Daniel Kennefick. . . . .	28	<b>Why Toast Lands Jelly-Side Down: Zen and the Art of Physics Demonstrations</b> ; Robert Ehrlich. . . . .	26
Treiman, Sam; <i>The Odd Quantum</i> . . . . .	30	<b>Why Trust Science?</b> ; Naomi Oreskes. . . . .	7
Tribble, Alan C.; <i>Princeton Guide to Advanced Physics</i> . . . . .	30	<b>Why You Hear What You Hear: An Experiential Approach to Sound, Music, and Psychoacoustics</b> ; Eric J. Heller. . . . .	27
Tribble, Alan C.; <i>The Space Environment: Implications for Spacecraft Design - Revised and Expanded Edition</i> . . . . .	30	<b>Wizards, Aliens, and Starships: Physics and Math in Fantasy and Science Fiction</b> ; Charles L. Adler. . . . .	25, 25
Tully, Christopher G.; <i>Elementary Particle Physics in a Nutshell</i> . . . . .	30	<b>World According to Physics, The</b> ; Jim Al-Khalili. . . . .	3
<b>Turning the World Inside Out and 174 Other Simple Physics Demonstrations</b> ; Robert Ehrlich. . . . .	26	Yeomans, Donald K.; <i>Near-Earth Objects: Finding Them Before They Find Us</i> . . . . .	31, 31
Tyson, Neil de Grasse; <i>Universe Down to Earth</i> . . . . .	30	Zee, A.; <i>Einstein Gravity in a Nutshell</i> . . . . .	22
Tyson, Neil deGrasse; <i>A Brief Welcome to the Universe: A Pocket-Sized Tour</i> . . . . .	1	Zee, A.; <i>Fearful Symmetry: The Search for Beauty in Modern Physics</i> . . . . .	31
Tyson, Neil Degrasse; <i>Welcome to the Universe: An Astrophysical Tour</i> . . . . .	1	Zee, A.; <i>Fly by Night Physics: How Physicists Use the Backs of Envelopes</i> . . . . .	6
Tyson, Neil deGrasse; <i>Welcome to the Universe: The Problem Book</i> . . . . .	30	Zee, A.; <i>Group Theory in a Nutshell for Physicists</i> . . . . .	23
Tyson, Neil Degrasse; <i>Welcome to the Universe: The Problem Book</i> . . . . .	12	Zee, A.; <i>On Gravity: A Brief Tour of a Weighty Subject</i> . . . . .	8, 31
<b>Ultimate Quotable Einstein, The</b> ; Albert Einstein. . . . .	12, 27	Zee, A.; <i>Quantum Field Theory in a Nutshell: Second Edition</i> . . . . .	24
<b>Understanding Quantum Mechanics</b> ; Roland Omnès. . . . .	29	Zimmerman, Robert; <i>The Universe in a Mirror: The Saga of the Hubble Space Telescope and the Visionaries Who Built It</i> . . . . .	31
<b>Understanding Relativity: A Simplified Approach to Einstein's Theories</b> ; Leo Sartori. . . . .	30		
<b>Universe Down to Earth</b> ; Neil de Grasse Tyson. . . . .	30		
<b>Universe in a Mirror, The: The Saga of the Hubble Space Telescope and the Visionaries Who Built It</b> ; Robert Zimmerman. . . . .	31		
<b>Unsolved Problems in Astrophysics</b> ; John N. Bahcall. . . . .	25		
<b>Usefulness of Useless Knowledge, The</b> ; Abraham Flexner . . . . .	13		
<b>View from Space, The: Photographic Exploration of the Planets</b> ; Merton E. Davies. . . . .	26		
Volk, Tyler; <i>Metapatterns: Across Space, Time, and Mind</i> . . . . .	30		
von Neumann, John; <i>Mathematical Foundations of Quantum Mechanics</i> . . . . .	30		
von Neumann, John; <i>Mathematical Foundations of Quantum Mechanics: New Edition</i> . . . . .	30, 30		
<b>Voyages of Columbia, The: The First True Spaceship</b> ; Richard S. Lewis. . . . .	28		
Waller, William H.; <i>The Milky Way: An Insider's Guide</i> . . . . .	30		
Watson, Fred; <i>Exploding Stars and Invisible Planets: The Science of What's Out There</i> . . . . .	30		
<b>Waves and Grains: Reflections on Light and Learning</b> ; Mark P. Silverman. . . . .	30		
Weintraub, David A.; <i>How Old Is the Universe?</i> . . . . .	30		



**THE UNIVERSITY PRESS GROUP  
SALES & DISTRIBUTION CONTACTS**

**EMEA - DISTRIBUTION**

John Wiley & Sons, Ltd.  
European Distribution Centre  
New Era Estate  
Oldlands Way  
Bognor Regis PO22 9NQ United Kingdom  
T: +44 (0)1243 843294  
E: customer@wiley.com

Simon Gwynn – Managing Director  
E: simon@upguk.com

**GREAT BRITAIN**

Ben Mitchell T: +44 (0)7766 913 593  
E: ben@upguk.com

**GERMANY, AUSTRIA, SWITZERLAND,  
CENTRAL AND EASTERN EUROPE,  
BALTIC STATES, RUSSIA, SCANDINAVIA**

Peter Jacques T: +44 (0)7966 288 593  
E: peter@upguk.com

**FRANCE, ITALY, SOUTH AFRICA**

Simon Gwynn T: +44(0)7964 144 987  
E: simon@upguk.com

**ALGERIA, CYPRUS, JORDAN, MOROCCO,  
MALTA, PALESTINE, ISRAEL, TUNISIA,  
TURKEY**

Claire De Gruchy, Avicenna Partnership Ltd.  
T: +44 (0)7771 887 843  
E: avicenna-cdeg@outlook.com

For all territories not mentioned above,  
please contact:

Simon Gwynn – Managing Director  
E: simon@upguk.com

Lois Edwards - Business Manager  
E: lois@upguk.com

**REPUBLIC OF IRELAND & NORTHERN  
IRELAND**

Robert Towers T: +353 1 280 6532  
E: rtowers16@gmail.com

**BENELUX, GREECE, PORTUGAL, SPAIN**

Dominique Bartshukoff T: +33 1 44 63 02 41  
E: dominique@upguk.com

**SUB SAHARAN AFRICA (EXCEPT SOUTH  
AFRICA)**

Kelvin Van Hasselt T: +44 (0)1263 513073  
E: Kelvin@africabookrep.com

**BAHRAIN, EGYPT, IRAQ, IRAN, KUWAIT,  
LEBANON, LIBYA, OMAN, QATAR, SAUDI  
ARABIA, SYRIA, UAE, YEMEN**

Bill Kennedy, Avicenna Partnership Ltd.  
T: +44 (0)7802 244457  
E: avicennabk@gmail.com





The University Press Group  
LEC1, New Era Estate  
Oldlands Way, Bognor Regis  
West Sussex, PO22 9NQ  
United Kingdom  
Tel. +44 (0) 1243 842165  
Fax. +44 (0) 1243 842167  
[sales@upguk.com](mailto:sales@upguk.com)  
[www.upguk.com](http://www.upguk.com)