New

The Planet Remade
How Geoengineering Could Change the World

Oliver Morton

“In Morton’s new book, he takes on some of the most challenging issues of our age. It is a readable and thought-provoking look at humanity’s dance with hubristic ideas and deeds regarding the manipulation of the environment on a planetary scale. He is clearly one of the best science writers of our day.”
—Steven Hamburg, Environmental Defense Fund

The risks of global warming are pressing and potentially vast. The difficulty of doing without fossil fuels is daunting, possibly even insurmountable. So there is an urgent need to rethink our responses to the crisis. To meet that need, a small but increasingly influential group of scientists is exploring proposals for planned human intervention in the climate system: a stratospheric veil against the sun, the cultivation of photosynthetic plankton, fleets of unmanned ships seeding the clouds. These are the technologies of geoengineering—and as Oliver Morton argues in this visionary book, it would be as irresponsible to ignore them as it would be foolish to see them as a simple solution to the problem. The Planet Remade explores the history, politics, and cutting-edge science of geoengineering. Morton weighs both the promise and perils of these controversial strategies and puts them in the broadest possible context.

2015. 440 pages. 1 halftone.
Cl: 978-0-691-14825-0 $29.95 | £19.95
Not for sale in the Commonwealth (except Canada)
New

The Serengeti Rules
The Quest to Discover How Life Works and Why It Matters
Sean B. Carroll

“The Serengeti Rules is a superb journey of a book written by a scientist of the first rank. Unfolding seamlessly from molecule to ecosystem, it explains with authority and grace why modern biology is central not just to human life but to that of the planet itself.”
—Edward O. Wilson, Harvard University

“A master storyteller, Carroll explores the unity of biology from the molecular level to the Serengeti, the rules that regulate life, and the consequences when regulation breaks down. A fascinating journey from beginning to end, this book will educate and entertain readers at all levels and leave them with a better understanding of how the biosphere works.”
—Simon Levin, Princeton University

How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In The Serengeti Rules, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon. The Serengeti Rules is the first book to illuminate how life works at vastly different scales—read it and you will never look at the world the same way again.

2016. 272 pages. 18 halftones. 26 line illus. 1 map.
Cl: 978-0-691-16742-8 $24.95 | £16.95

New

The Worst of Times
How Life on Earth Survived Eighty Million Years of Extinctions
Paul B. Wignall

“Wignall covers everything from volcanic eruptions and the carbon cycle to climate reconstruction and the possible role the Pangean supercontinent may have played in these devastating events. This is a story well told.”
—Michael J. Benton, author of The History of Life: A Very Short Introduction

Two hundred and sixty million years ago, life on Earth suffered wave after wave of cataclysmic extinctions, with the worst—the end-Permian extinction—wiping out nearly every species on the planet. The Worst of Times delves into the mystery behind these extinctions and sheds light on the fateful role the primeval supercontinent, known as Pangea, may have played in causing these global catastrophes. Unraveling one of the great enigmas of ancient Earth, The Worst of Times also explains how the splitting apart of Pangea into the continents we know today ushered in a new age of vibrant and more resilient life on our planet.

2015. 240 pages. 16 color illus. 2 halftones. 11 line illus.
Cl: 978-0-691-14209-8 $27.95 | £19.95

New

How to Clone a Mammoth
The Science of De-Extinction
Beth Shapiro

“[A] clear appraisal of what it would really take to resurrect extinct species…. Several hurdles remain, and Shapiro presents these clearly and entertainingly as a brilliant thought experiment at the boundaries of biological plausibility.”
—Henry Nicholls, Nature

Could extinct species, like mammoths and passenger pigeons, be brought back to life? The science says yes. In How to Clone a Mammoth, Beth Shapiro, evolutionary biologist and pioneer in “ancient DNA” research, walks readers through the astonishing process of de-extinction. From deciding which species should be restored, to sequencing their genomes, to anticipating how revived populations might be overseen in the wild, Shapiro vividly explores the extraordinary cutting-edge science that is being used—to-day—to resurrect the past. Would de-extinction change the way we live? Is this really cloning? What are the costs and risks? And what is the ultimate goal?

2015. 256 pages. 16 color illus. 2 halftones. 9 line illus.
Cl: 978-0-691-15705-4 $24.95 | £16.95
One of Flavorwire’s 10 Must-Read Academic Books for 2015
Forthcoming

Pursuing Sustainability
A Guide to the Science and Practice
Pamela Matson, William C. Clark & Krister Andersson

“It is an enormous challenge to relay to students the complexity of sustainable development while providing them with skills and ways of thinking that can be applied concretely. This succinct and accessible primer provides the essential tools, methods, and approaches they need.”
—Ruth DeFries, author of
The Big Ratchet: How Humanity Thrives in the Face of Natural Crisis

“A useful, compelling synthesis of a range of ideas.”
—Kai N. Lee, coauthor of
Humans in the Landscape: An Introduction to Environmental Studies

Sustainability is a global imperative and a scientific challenge like no other. This concise guide provides students and practitioners with a strategic framework for linking knowledge with action in the pursuit of sustainable development, and serves as an invaluable companion to more narrowly focused courses dealing with sustainability in particular sectors such as energy, food, water, and housing, or in particular regions of the world. Written by leading experts, Pursuing Sustainability shows how more inclusive and interdisciplinary approaches and systems perspectives can help you achieve your sustainability objectives.

April 2016. 192 pages. 17 line illus. 7 halftones. 4 tables.
Cl: 978-0-691-15761-0 $35.00 | £24.95

New

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

“Doing Global Science is a comprehensive code of conduct for scientific research, and a guide to responsible interactions by researchers with funding agencies, journals, policymakers, the public, and each other. In an interconnected world that is increasingly knowledge based and data driven, the plethora of resources and references in this book is invaluable to scientists and science communicators at all levels.”
—Maria Spiropulu, California Institute of Technology

This concise introductory guide explains the values that should inform the responsible conduct of scientific research in today’s global setting. Featuring accessible discussions and ample real-world scenarios, Doing Global Science covers proper conduct, fraud and bias, the researcher’s responsibilities to society, communication with the public, and much more. The book places special emphasis on the international and highly networked environment in which modern research is done, presenting science as an enterprise that is being transformed by globalization, interdisciplinary research projects, team science, and information technologies.

Doing Global Science is required reading for students, practitioners, and anyone concerned about the responsible conduct of science today.

2016. 192 pages. 11 line illus.
Cl: 978-0-691-17075-6 $14.95 | £10.95

New

Life’s Engines
How Microbes Made Earth Habitable
Paul G. Falkowski

“[F]ull of surprises…. [I]mmensely rewarding.”
—Tim Flannery, New York Review of Books

“Personal stories, hard facts, and illuminative illustrations each contribute to this engaging examination of our microbial overlords.”
—Rachel Jagareski, Foreword Reviews

For almost four billion years, microbes had the primordial oceans all to themselves. The stewards of Earth, these organisms transformed the chemistry of our planet to make it habitable for plants, animals, and us. Life’s Engines takes readers deep into the microscopic world to explore how these marvelous creatures made life on Earth possible—and how human life today would cease to exist without them. A vibrantly entertaining book about the microbes that support our very existence, Life’s Engines will inspire wonder about these elegantly complex nanomachines that have driven life since its origin.

Science Essentials
John Dowling, Series Editor

2015. 224 pages. 22 line illus. 16 tables.
Cl: 978-0-691-15537-1 $24.95 | £16.95

2 • general interest
New Paperback

Tambora
The Eruption That Changed the World
Gillen D’Arcy Wood

“Wood, who intends no hyperbole in his subtitle, makes a convincing case for Tambora’s role in causing ‘the most catastrophic sustained weather crisis of the millennium.’” —Thomas Jones, London Review of Books

When Indonesia’s Mount Tambora erupted in 1815, it unleashed the most destructive wave of extreme weather the world has witnessed in thousands of years. The volcano’s massive sulfate dust cloud enveloped the Earth, cooling temperatures and disrupting major weather systems for more than three years. Communities worldwide endured famine, disease, and civil unrest on a catastrophic scale. Bringing the history of this planetary emergency to life, Tambora sheds light on the fragile interdependence of climate and human societies to offer a cautionary tale about the potential tragic impacts of drastic climate change in our own century.

2015. 312 pages. 25 halftones. 25 line illus. 1 table.
Pa: 978-0-691-16862-3 $19.95 | £13.95
Cl: 978-0-691-15054-3 $29.95 | £19.95

One of the Guardian’s Best Popular Physical Science Books of 2014
One of Nature.com’s Top 20 Reads of 2014

New Paperback

Oxygen
A Four Billion Year History
Donald E. Canfield

“This is the sort of science writing we would all do well to read more of. . . Engage[s] with the ambiguity of a world where evidence is imperfect, knowledge evolves, and mistakes can be made in interpreting the data.” —Ian Scheffler, Los Angeles Review of Books

The air we breathe is twenty-one percent oxygen, an amount higher than on any other known world. While we may take our air for granted, Earth was not always an oxygenated planet. How did it become this way? Donald Canfield—one of the world’s leading authorities on geochemistry, earth history, and the early oceans—covers this vast history, emphasizing its relationship to the evolution of life and the evolving chemistry of the Earth. Oxygen takes readers on a remarkable journey through the history of the oxygenation of our planet.

Science Essentials
John Dowling, Series Editor

2015. 224 pages. 8 color illus. 20 halftones. 35 line illus.
Pa: 978-0-691-16836-4 $17.95 | £12.50
Cl: 978-0-691-14502-0 $27.95 | £19.95

One of the American Association for the Advancement of Science’s Books for General Audiences and Young Adults 2014

New Paperback

The Extreme Life of the Sea
Stephen R. Palumbi & Anthony R. Palumbi

“This gem of a book . . . finds enough weirdness in the ocean to feed creativity for generations to come. . . . [A] wonderful mix of meticulous science and creative panache.” —Callum Roberts, Nature

The ocean teems with life that thrives under difficult situations in unusual environments. The Extreme Life of the Sea takes readers to the absolute limits of the ocean world—the fastest and deepest, the hottest and oldest creatures of the oceans. It dives into the icy Arctic and boiling hydrothermal vents—and exposes the eternal darkness of the deepest undersea trenches—to show how marine life thrives against the odds. Coauthored by Stephen Palumbi, one of today’s leading marine scientists, The Extreme Life of the Sea tells the unforgettable stories of some of the most marvelous life forms on Earth, and the challenges they overcome to survive.

2015. 256 pages. 16 color illus. 28 halftones. 5 line illus.
Pa: 978-0-691-16981-1 $17.95 | £12.50
Cl: 978-0-691-14956-1 $27.95 | £19.95
One of the American Association for the Advancement of Science’s Books for General Audiences and Young Adults 2014
Forthcoming Paperback

The Long Thaw
How Humans Are Changing the Next 100,000 Years of Earth’s Climate
David Archer
With a new preface by the author

“A beautifully written primer on why climate change matters hugely for our future—on all time scales.”
—New Scientist

The human impact on Earth’s climate is often treated as a hundred-year issue lasting as far into the future as 2100, the year in which most climate projections cease. In The Long Thaw, David Archer, one of the world’s leading climatologists, reveals the hard truth that these changes in climate will be “locked in,” essentially forever. A human-driven, planet-wide thaw has already begun.

April 2016. 200 pages. 2 halftones. 20 line illus. 2 tables.
Pa: 978-0-691-16906-4 $17.95 | £12.50
Winner of the 2009 Walter P. Kistler Award, Foundation For the Future
One of the Australian’s Best Books of 2009

New Paperback

Life on a Young Planet
The First Three Billion Years of Evolution on Earth
Andrew H. Knoll
With a new preface by the author

“[Knoll] is a gifted storyteller with a knack for choosing the right anecdote.”
—Antonio Lazcano, American Scientist

2015. 304 pages. 8 color illus. 25 halftones. 47 line illus.
Pa: 978-0-691-16553-0 $19.95 | £13.95
Winner of the 2003 Phi Beta Kappa Book Award in Science

New Paperback

T. rex and the Crater of Doom
Walter Alvarez
With a foreword by Carl Zimmer

2015. 216 pages. 8 color plates. 15 halftones. 2 line illus.
Pa: 978-0-691-16966-8 $18.95 | £12.95

New Paperback

Extinction
How Life on Earth Nearly Ended 250 Million Years Ago
Douglas H. Erwin
With a new preface by the author

“Douglas Erwin’s geological mystery story is engrossing.”
—Lucy Sussex, The Age

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How Humans Took Control of Climate
William F. Ruddiman
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New Paperback

The Two-Mile Time Machine
Ice Cores, Abrupt Climate Change, and Our Future
Richard B. Alley
With a new preface by the author

2014. 248 pages.
Pa: 978-0-691-16083-2 $17.95 | £12.50
Not for sale in the Commonwealth (except Canada)
Winner of the 2001 Phi Beta Kappa Award in Science
One of Choice’s Outstanding Academic Titles for 2001
New Paperback

The Medea Hypothesis
Is Life on Earth Ultimately Self-Destructive?
Peter Ward

“[Ward] hopes not only to shake the philosophical underpinnings of environmentalism, but to reshape our understanding of our relationship with nature, and of life’s ultimate sustainability on this planet and beyond.”
—Drake Bennett, Boston Globe

In *The Medea Hypothesis*, renowned paleontologist Peter Ward proposes a revolutionary and provocative vision of life’s relationship with the Earth’s biosphere—one that has frightening implications for our future, yet also offers hope. Using the latest discoveries from the geological record, he argues that life might be its own worst enemy. In answer to James Lovelock’s Gaia hypothesis, which draws on the idea of the “good mother” who nurtures life, Ward invokes Medea, the mythical mother who killed her own children. Could life by its very nature threaten its own existence?

Science Essentials
John Dowling, Series Editor
2015. 208 pages. 11 line illus. 2 tables. Pa: 978-0-691-16580-6 $17.95 | £12.50
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The Impending World Oil Shortage
Kenneth S. Deffeyes
With new commentary by the author

“Deffeyes makes a persuasive case…. This is an oilman and geologist’s assessment of the future, grounded in cold mathematics. And it’s frightening.”
—Paul Raeburn, *Scientific American*

2009. 232 pages. 25 halftones. 50 line illus. Pa: 978-0-691-14119-0 $24.95 | £16.95
One of Choice’s Outstanding Academic Titles for 2002
Honorable Mention, 2001 Award for Best Professional/Scholarly Book in Geography and Earth Science, Association of American Publishers

On Gaia
A Critical Investigation of the Relationship between Life and Earth
Toby Tyrrell

2013. 320 pages. 50 halftones. 10 line illus. 12 tables. Cl: 978-0-691-12158-1 $35.00 | £24.95

James Lovelock
In Search of Gaia
John Gribbin & Mary Gribbin

For sale only in the United States
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Charles H. Langmuir & Wally Broecker
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Cl: 978-0-691-14006-3 $43.95 | £29.95
Honororable Mention, 2012 PROSE Award, Earth Sciences, Association of American Publishers

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The Origin and Evolution of Our Solar System
John Chambers & Jacqueline Mitton
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Cl: 978-0-691-14522-8 $29.95 | £19.95

The Great Ocean Conveyor
Discovering the Trigger for Abrupt Climate Change
Wally Broecker
2010. 176 pages. 10 halftones. 40 line illus. 12 maps.
Cl: 978-0-691-14354-5 $32.95 | £22.95

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Finding Them Before They Find Us
Donald K. Yeomans
2012. 192 pages. 20 halftones. 19 line illus. 6 tables.
Cl: 978-0-691-14929-5 $24.95 | £16.95
Donald K. Yeomans, Winner of the 2013 Carl Sagan Medal, American Astronomical Society

How to Find a Habitable Planet
James Kasting
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Science Essentials
John Dowling, Series Editor
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Cl: 978-0-691-15383-4 $75.00 | £52.00

Climate and Ecosystems
David Schimel

“The author does an admirable job of presenting a highly complex field of study in an extraordinarily accessible manner.”
—Eric Post, Quarterly Review of Biology
2013. 240 pages. 19 line illus.
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Planetary Climates
Andrew P. Ingersoll

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—Lunar and Planetary Information Bulletin
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Cl: 978-0-691-14504-4 $75.00 | £52.00

The Global Carbon Cycle
David Archer

 “[A] must read for specialists and graduate students in geochemistry, palaeoclimatology, and modern climate change.”
—Dmitry A. Ruban, Palaeontologie allgemein
2010. 216 pages. 25 line illus.
Pa: 978-0-691-14414-6 $35.00 | £24.95

Paleoclimate
Michael L. Bender

“The author has succeeded admirably…. I found it easy to read yet thought provoking, consistently interesting and, perhaps best of all, not at all intimidating in bulk or style. Highly recommended!”
—William R. Green, Leading Edge
2013. 320 pages. 5 halftones. 40 line illus.
Pa: 978-0-691-14555-6 $27.95 | £19.95
Cl: 978-0-691-14554-9 $80.00 | £55.00

Climate and the Oceans
Geoffrey K. Vallis

 “[A]n excellent primer on the physical processes that control interactions within and between the atmosphere and ocean.”
—Choice
2011. 248 pages. 32 line illus. 2 tables.
Pa: 978-0-691-15028-4 $30.95 | £21.95

Atmosphere, Clouds, and Climate
David Randall

 “[A]n impressively thorough conceptual understanding of the atmosphere's central role in climate.”
—Spencer Hill, Science
2012. 288 pages. 19 halftones. 21 line illus. 5 tables.
Pa: 978-0-691-14375-0 $31.95 | £21.95

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New

An Introduction to the Global Circulation of the Atmosphere
David Randall

“Randall has provided a tremendous guidebook and resource for the advanced student of the structure and variability of the atmospheric circulation and its relation to the energy and water cycles.... This book is a tour de force from a master scholar and teacher.” —Dennis L. Hartmann, University of Washington

This is a graduate-level textbook on the global circulation of the Earth’s atmosphere—the large-scale system of winds by which energy is transported around the planet, from the tropical latitudes to the poles. Written by David Randall, one of the world’s foremost experts on the subject, it is the most comprehensive textbook on the topic. Intended for Earth science students who have completed some graduate-level coursework in atmospheric dynamics, the book will help students build on that foundation, preparing them for research in the field.

2015. 466 pages. 25 halftones. 195 line illus. 13 tables. 
Cl: 978-0-691-14896-0 $90.00 | £62.00

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New

Modern Observational Physical Oceanography
Understanding the Global Ocean
Carl Wunsch

“Essential reading for all serious students of physical oceanography. Wunsch explains how our knowledge derives from instrumental observations and conceptual models, yet how we often misunderstand the limits of what we see.” —Thomas Haine, Johns Hopkins University

Written by a leading physical oceanographer, Modern Observational Physical Oceanography explains what the observational revolution of the past twenty-five years has taught us about the real, changing fluid ocean. Unlike any other book, it provides a broad and accessible treatment of the subject, covering everything from modern methods of observation and data analysis to the fluid dynamics and modeling of ocean processes and variability. Fully illustrated in color throughout, the book describes the fundamental concepts that are needed before delving into more advanced topics, including internal-inertial waves, tides, balanced motions, and large-scale circulation physics.

2015. 512 pages. 246 color illus. 8 tables. 
Cl: 978-0-691-15882-2 $99.50 | £69.95

New

A Student’s Guide to Python for Physical Modeling
Jesse M. Kinder & Philip Nelson

“Kinder and Nelson have written a friendly and succinct, yet surprisingly comprehensive, introduction to scientific programming in Python. It’s written not just for computational scientists, but for anyone who needs to plot and analyze experimental data, numerically solve equations, or learn the basics of programming.” —Vinothan N. Manoharan, Harvard University

Python is a computer programming language that is rapidly gaining popularity throughout the sciences. A Student’s Guide to Python for Physical Modeling aims to help you, the student, teach yourself enough of the Python programming language to get started with physical modeling. You will learn how to install an open-source Python programming environment and use it to accomplish many common scientific computing tasks: importing, exporting, and visualizing data; numerical analysis; and simulation. No prior programming experience is assumed.

2015. 160 pages. 3 color illus. 
Pa: 978-0-691-17050-3 $24.95 | £16.95 
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Kerry H. Cook
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Second Edition
Elizabeth Kay Berner & Robert A. Berner
2012. 464 pages. 31 halftones. 116 line illus.
83 tables.
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A Primer
Rudy Slingerland & Lee Kump
2011. 248 pages. 3 halftones. 72 line illus.
9 tables. 1 map.
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Exoplanet Atmospheres
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Sara Seager
Princeton Series in Astrophysics
David N. Spergel, Series Editor
2010. 264 pages. 1 halftone. 91 line illus.
8 tables.
$60.00 | £41.95

Fundamentals of Ocean Climate Models
Stephen Griffies
2004. 552 pages. 40 line illus. 1 table.
$108.00 | £75.00

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Jorge L. Sarmiento & Nicolas Gruber
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An Introduction to Oceanography
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$69.95 | £48.95

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The Importance of Biotic Interactions
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Simon A. Levin and Henry S. Horn, Series Editors
2013. 408 pages. 124 line illus.
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Gary A. Glatzmaier
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2013. 344 pages. 16 color illus. 19 halftones.
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Eric H. Cline
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Barry Strauss, Series Editor
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Timothy J. Jorgensen
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“Open these pages and enjoy the company of one of nature’s most marvelous minds.”
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Thomas D. Seeley
“A special delight. There is no better guide to bee hunting than Seeley.”
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“[B]eautifully written and filled with Seeley’s usual clarity and enthusiasm for bees.”
—Mark L. Winston, author of Bee Time
May 2016. 176 pages. 10 color illus.
40 line illus.
Cl: 978-0-691-17026-8 $22.95 | £15.95

New
Strange Glow
The Story of Radiation
Timothy J. Jorgensen
“(T)his lucid book explains the discovery, benefits, and dangers of different forms of radiation, Strange Glow is both a fine history and a deft elucidation of risk assessment.”
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