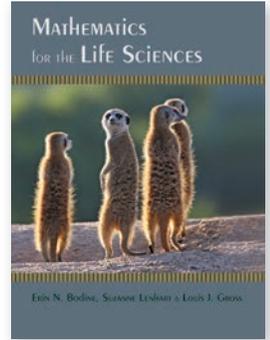
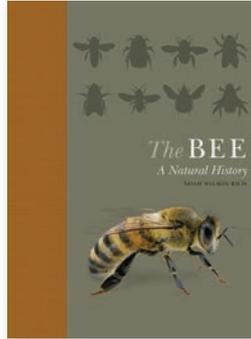
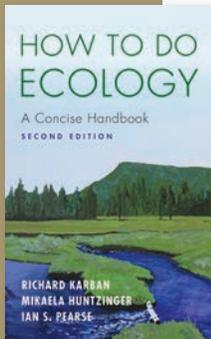
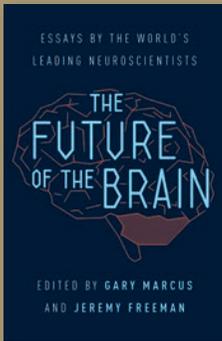
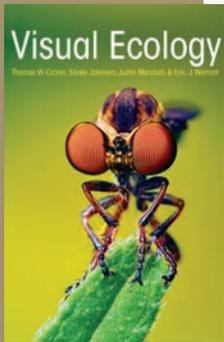
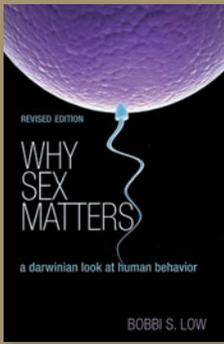


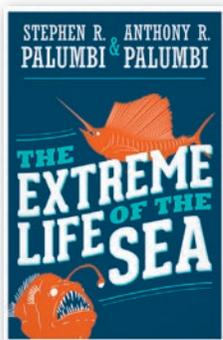
Biology
2014-2015





Contents

general interest	1
textbooks	6
ecology • evolution • behavior	10
monographs in population biology	12
biomechanics	13
princeton primers in climate	14
primers in complex systems	15
field guides	16
science essentials	21
of related interest	22
princeton science library	24
index • order form	25



New

The Extreme Life of the Sea

Stephen R. Palumbi & Anthony R. Palumbi

"The oceans are our most precious treasure, full of creatures and stories more fantastic than any science fiction. *The Extreme Life of the Sea* is a fascinating exploration of this vast mysterious universe. Wonderfully written, it will grab you from page one and carry you all the way through. A must-read for everyone."

—Philippe Cousteau

"A brilliant use of the rich store of research into Earth's largest habitat."

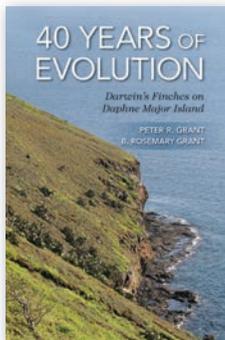
—*Nature*

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. This thrilling book brings to life the sea's most extreme species, and tells their stories as characters in the drama of the oceans.

2014. 256 pages. 16 color illus. 28 halftones. 5 line illus.

Cl: 978-0-691-14956-1 \$27.95 | £19.95

An enhanced e-book will be available this spring. This special edition will include eleven videos and be priced at \$29.95.



New

40 Years of Evolution

Darwin's Finches on Daphne Major Island

Peter R. Grant & B. Rosemary Grant

"Reading this book is like having an engaging conversation with two of the most prominent and charming field biologists of our time. Come listen to their singular adventure, unprecedented insight, and eyewitness account of evolution in action. A terrific must-read for all students of biology, from enthusiasts to experts."

—Hopi E. Hoekstra, Harvard University

"This masterful work summarizes four decades of research on Darwin's finches by the Grants and their many students and collaborators. The book provides an eloquent illustration of how our general understanding of evolution is advanced by a rigorous, sustained focus on a handful of species on a single island."

—Joel G. Kingsolver, University of North Carolina, Chapel Hill

By following the fates of finches for several generations, *40 Years of Evolution* offers unparalleled insights into ecological and evolutionary changes in natural environments.

2014. 432 pages. 44 color illus. 129 line illus. 21 tables.

Cl: 978-0-691-16046-7 \$49.50 | £34.95



New

The Princeton Guide to Evolution

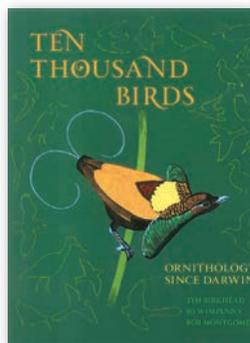
Jonathan B. Losos, editor in chief

David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter & Michael C. Whitlock, editors

The Princeton Guide to Evolution is a comprehensive, concise, and authoritative reference to the major subjects and key concepts in evolutionary biology, from genes to mass extinctions. Edited by a distinguished team of evolutionary biologists, with contributions from leading researchers, the guide contains more than 100 clear, accurate, and up-to-date articles on the most important topics in seven major areas: phylogenetics and the history of life; selection and adaptation; evolutionary processes; genes, genomes, and phenotypes; speciation and macroevolution; evolution of behavior, society, and humans; and evolution and modern society. Complete with more than 100 illustrations (including eight pages in color), glossaries of key terms, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, scientists in related fields, and anyone else with a serious interest in evolution.

2013. 880 pages. 16 color illus. 4 halftones. 97 line illus. 23 tables. 1 map.

Cl: 978-0-691-14977-6 \$99.00 | £68.00



New

Ten Thousand Birds

Ornithology since Darwin

Tim Birkhead, Jo Wimpenny & Bob Montgomerie

"Lovingly well-researched and beautifully written.... Definitive, absorbing and highly recommended."

—Adrian Barnett, *New Scientist*

"An excellent history of the study of birds in modern times."

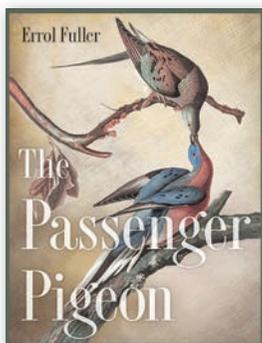
—Matt Merritt, *Bird Watching*

"A first-class review not only of the recent history of ornithology but also of the key players involved. No other book of this type comes anywhere near this one in its breadth of coverage and depth of scholarship. *Ten Thousand Birds* is in a class by itself, and an outstanding read."

—Ian Newton, author of *The Migration Ecology of Birds*

Ten Thousand Birds provides a thoroughly engaging and authoritative history of modern ornithology, tracing how the study of birds has been shaped by a succession of visionary and often-controversial personalities, and by the unique social and scientific contexts in which these extraordinary individuals worked.

2014. 544 pages. 94 color illus. 60 halftones.
Cl: 978-0-691-15197-7 \$45.00 | £29.95



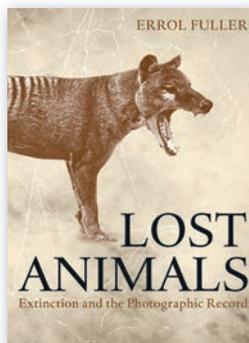
Forthcoming

The Passenger Pigeon

Errol Fuller

This stunningly illustrated book tells the astonishing story of North America's Passenger Pigeon, a bird species that—like the Tyrannosaur, the Mammoth, and the Dodo—has become one of the great icons of extinction. Errol Fuller describes how these fast, agile, and handsomely plumaged birds were immortalized by the ornithologist and painter John James Audubon, and captured the imagination of writers such as James Fenimore Cooper, Henry David Thoreau, and Mark Twain. He shows how widespread deforestation, the demand for cheap and plentiful pigeon meat, and the indiscriminate killing of Passenger Pigeons for sport led to their catastrophic decline. Fuller provides an evocative memorial to a bird species that was once so important to the ecology of North America, and reminds us of just how fragile the natural world can be.

November 2014. 192 pages. 75 color illus.
25 halftones.
Cl: 978-0-691-16295-9 \$29.95 | £19.95



New

Lost Animals

Extinction and the Photographic Record

Errol Fuller

"Collected together here for the first time, these photos provide a tangible link to animals that have now vanished forever, in a book that brings the past to life while delivering a warning for the future. The photos, together with the well-written species accounts, including excerpts from writings of the day and reminiscings from firsthand experiences, the book is an excellent piece to have in your library or on your coffee table at home."

—Chris West, *Southwest Wisconsin Birder*

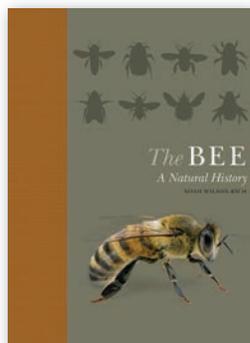
"The photographs are often grainy, or poorly framed, or badly lit. But this fact, oddly, is also part of the book's power—the everyday nature of these snapshots somehow hammers home the enormity of the subject matter."

—Chris Wright, *Boston Globe*

Lost Animals is a unique photographic record of extinction, presented by a world authority on vanished animals. Richly illustrated throughout, this handsome book features photographs dating from around 1870 to as recently as 2004, the year that witnessed the demise of the Hawaiian Pōouli.

2014. 240 pages. 53 color illus. 95 halftones.
Cl: 978-0-691-16137-2 \$29.95 | £19.95
For sale only in North America and the Philippines

To receive notices about new books, subscribe for email at: press.princeton.edu/subscribe



Forthcoming

The Bee

A Natural History

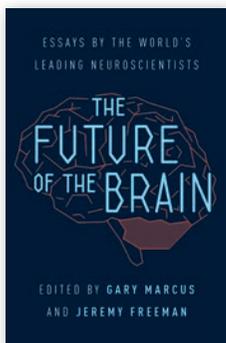
Noah Wilson-Rich

With contributions from Kelly Allin, Norman Carreck & Andrea Quigley

Bees pollinate more than 130 fruit, vegetable, and seed crops that we rely on to survive. Bees are crucial to the reproduction and diversity of flowering plants, and the economic contributions of these irreplaceable insects measure in the tens of billions of dollars each year. Yet bees are dying at an alarming rate, threatening food supplies and ecosystems around the world. In this richly illustrated natural history of the bee, Noah Wilson-Rich and his team of bee experts provide a window into the vitally important role that bees play in the life of our planet.

- Provides an accessible, illustrated look at the human–bee relationship over time
- Features a section on beekeeping and handy go-to guides to the identification, prevention, and treatment of honey bee diseases
- Covers bee evolution, ecology, genetics, and physiology
- Presents a holistic approach to bee health, including organic and integrated pest management techniques

September 2014. 224 pages. 250 color illus.
Cl: 978-0-691-16135-8 \$27.95
For sale only in the United States, its dependencies, and Canada



Forthcoming

The Future of the Brain

Essays by the World's Leading Neuroscientists

Edited by Gary Marcus & Jeremy Freeman

"This is a wonderful way to launch yourself into the exciting world of twenty-first-century neuroscience, whether you are a scientist or an intellectually curious layperson. The power in this sampler is that the coverage is not just technical but conceptual: the essays probe the ways in which an understanding of the brain will and won't illuminate the mind, and they do so with depth and balance rather than the usual breathless hype."

—Steven Pinker, author of *How the Mind Works*

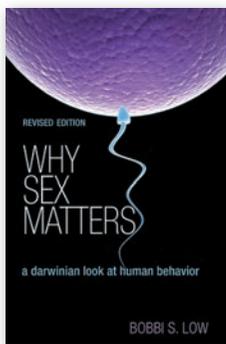
December 2014. 272 pages. 14 line illus.
3 color illus. 10 halftones.
Cl: 978-0-691-16276-8 \$24.95 | £16.95

Forthcoming Paperback—Revised Edition

Why Sex Matters

A Darwinian Look at Human Behavior

Bobbi S. Low



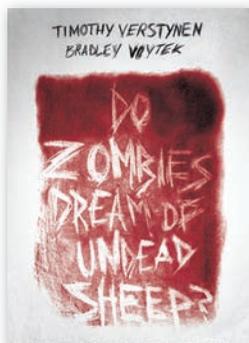
"A useful survey of what is known about behavioral sex differences in animals and humans, covering biology, anthropology, sociology, and history. It is clear and informative."

—Colin McGinn, *New York Times Book Review*

"Deftly written.... A very thorough review of the current state of the art of human behavioral biology."

—Craig B. Stanford, *American Scientist*

February 2015. 376 pages. 8 halftones. 21 line illus. 2 tables.
Pa: 978-0-691-16388-8 \$35.00 | £24.95



Forthcoming

Do Zombies Dream of Undead Sheep?

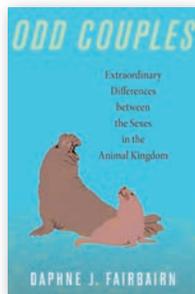
A Neuroscientific View of the Zombie Brain

Timothy Verstynen & Bradley Voytek

"In *Do Zombies Dream of Undead Sheep?*, Verstynen and Voytek expertly unravel the mysteries of the zombie brain. Equal parts entertaining and informative, this important and brilliant must-read just might save the world someday. I gobbled it up like a zombie eating brains!"

—Matt Mogk, author of *Everything You Ever Wanted to Know about Zombies*

October 2014. 296 pages. 16 line illus.
Cl: 978-0-691-15728-3 \$19.95 | £13.95



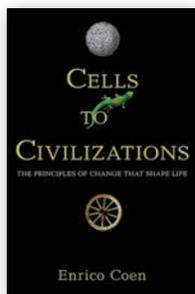
Odd Couples
Extraordinary Differences between the Sexes in the Animal Kingdom

Daphne J. Fairbairn

"Be prepared to be entertained and fascinated by this stimulating and provocative book. It is certain to spark your curiosity. Fairbairn takes us on a romp through the animal kingdom."

—Ann Hedrick, *Ecology*

2013. 328 pages. 17 color illus. 5 halftones. 12 line illus. 7 tables.
Cl: 978-0-691-14196-1 \$27.95 | £19.95



Shortlisted for the 2013 Winton Prize for Science Books, Royal Society

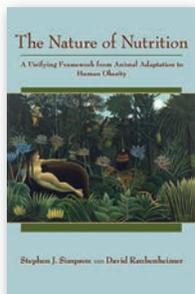
Cells to Civilizations
The Principles of Change That Shape Life

Enrico Coen

"Cells to Civilizations will stimulate many productive discussions about the origins and development of life in all its complexities."

—Manfred D. Laubichler, *Science*

2012. 344 pages. 20 color illus. 81 halftones. 9 line illus.
Cl: 978-0-691-14967-7 \$29.95 | £19.95



Randomness in Evolution
John Tyler Bonner

"This is an excellent essay, valuable to a wide audience. Evolution is an important, timely topic, making Bonner's work a worthy contribution."

—Choice

2013. 152 pages. 4 halftones. 10 line illus.
Cl: 978-0-691-15701-6 \$27.95 | £19.95

Also by John Tyler Bonner

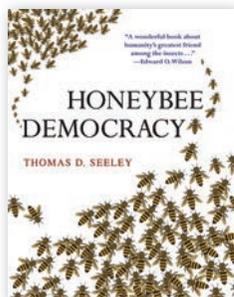
One of *Choice's* Outstanding Academic Titles for 2007

Why Size Matters
From Bacteria to Blue Whales

"A masterful and engaging work."

—Susan Lumpkin, *Zoogoeer*

2012. 176 pages. 35 line illus. 1 table.
Pa: 978-0-691-15233-2 \$12.95 | £8.95



Honeybee Democracy
Thomas D. Seeley

"Dr. Seeley is an engaging guide. His enthusiasm and admiration for honeybees is infectious. His accumulated research seems truly masterly, doing for bees what E.O. Wilson did for ants."

—Katherine Bouton, *New York Times*

2010. 280 pages. 30 color illus. 30 halftones. 26 line illus. 1 table.
Cl: 978-0-691-14721-5 \$29.95 | £19.95

The Unpredictable Species
What Makes Humans Unique

Philip Lieberman

"This book should be considered as an excellent introduction for anyone who wants to delve into mysteries of the evolution of our unique brain."

—Kate MacCord, *Quarterly Review of Biology*

2013. 272 pages. 12 line illus.
Cl: 978-0-691-14858-8 \$29.95 | £19.95

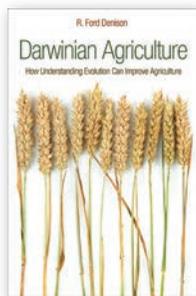
The Nature of Nutrition
A Unifying Framework from Animal Adaptation to Human Obesity

Stephen J. Simpson & David Raubenheimer

"The Nature of Nutrition demystifies the complexity of nutrition and diet choice and shows why people and other creatures eat the way they do."

—Daniel Rubenstein, Princeton University

2012. 256 pages. 8 color illus. 61 line illus.
Cl: 978-0-691-14565-5 \$49.50 | £34.95



Darwinian Agriculture
How Understanding Evolution Can Improve Agriculture

R. Ford Denison

"Darwinian Agriculture offers an engaging and bold explanation of why agricultural research must take better advantage of insights from evolutionary biology."

—Allison A. Snow, *Science*

2012. 272 pages. 1 halftone. 4 line illus.
Cl: 978-0-691-13950-0 \$39.50 | £27.95



Winner of the 2011 PROSE Award for Excellence in Popular Science & Popular Mathematics, Association of American Publishers

Avian Architecture
How Birds Design, Engineer, and Build

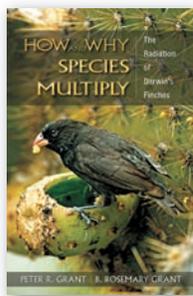
Peter Goodfellow

"A must have book if you have ever wondered how birds are able to build such incredible nests."

—*Birder's Report*

2011. 160 pages. 300 color illus.
Cl: 978-0-691-14849-6 \$29.95

For sale only in the United States and Canada



How and Why Species Multiply

The Radiation of Darwin's Finches

Peter R. Grant & B. Rosemary Grant

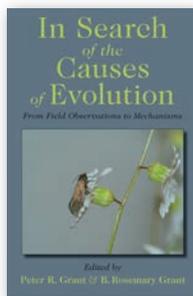
"[A] must-have primer for any biology student."

—Henry Nicholls, *New Scientist*

Princeton Series in Evolutionary Biology

2011. 272 pages. 31 color illus. 58 line illus. 3 tables.

Pa: 978-0-691-14999-8 \$29.95 | £19.95



In Search of the Causes of Evolution

From Field Observations to Mechanisms

Edited by Peter R. Grant & B. Rosemary Grant

"In Search of the Causes of Evolution will inspire biologists in the field, at the laboratory bench, and in the classroom."

—Ryan Calsbeek, *BioScience*

2010. 400 pages. 32 color plates. 22 halftones. 56 line illus. 4 tables.

Pa: 978-0-691-14695-9 \$55.00 | £37.95

Winner of the 2003 Phi Beta Kappa Book Award in Science

Life on a Young Planet
The First Three Billion Years of Evolution on Earth

Andrew H. Knoll

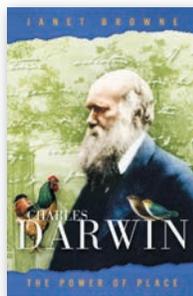
"Andrew Knoll is an ideal guide through this early phase of life's history on the Earth."

—Stefan Bengtson, *Nature*

Princeton Science Library

2004. 296 pages. 33 color plates. 25 halftones. 47 line illus.

Pa: 978-0-691-12029-4 \$28.95 | £19.95



Winner of the 2004 Pfizer Prize, History of Science Society

Winner of the 2002 National Book Critics Circle Award for Biography

Charles Darwin

The Power of Place

Janet Browne

"[A] magnificent biography."

—Richard Milner, *Scientific American*

2003. 632 pages. 75 halftones.

Pa: 978-0-691-11439-2 \$30.95 | £21.95

Not for sale in the Commonwealth (except Canada)

Also by Janet Browne

Charles Darwin

Voyaging

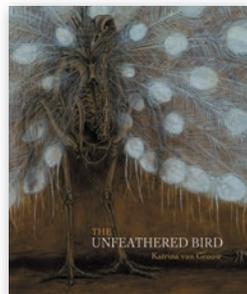
"[Browne] knows how to spellbind the reader."

—Ernst Mayr, *Newsday*

1996. 632 pages. 75 halftones. 4 maps.

Pa: 978-0-691-02606-0 \$30.95 | £21.95

Not for sale in the Commonwealth (except Canada) and the Republic of Ireland



Third Place, 2013 Best Bird Book of the Year, *British Birds* and the British Trust for Ornithology

Honorable Mention, 2013 PROSE Award in Biological Sciences, Association of American Publishers

The Unfeathered Bird

Katrina van Grouw

"You can open this gorgeous volume to any page and quickly get lost in the revelations of what magnificent and wondrous creatures we share this planet with. It's truly a magnum opus."

—Clay Christensen, *Birdman of Lauderdale*

2013. 304 pages. 385 duotones/color illus.
Cl: 978-0-691-15134-2 \$49.95 | £34.95



One of *Choice's* Outstanding Academic Titles for 2006

Extinction

How Life on Earth Nearly Ended 250 Million Years Ago

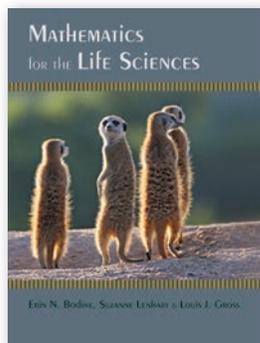
Douglas H. Erwin

"Extinction provides a great reference for researchers and the interested lay reader alike."

—Andrew M. Bush, *Science*

2008. 320 pages. 32 halftones. 32 line illus.

Pa: 978-0-691-13628-8 \$25.95 | £17.95



Forthcoming
Mathematics for the Life Sciences

Erin N. Bodine, Suzanne Lenhart & Louis J. Gross

"This is the book I always wanted to write, a masterful and thorough introduction to the basic mathematical, statistical, and computational tools one needs to address biological problems, punctuated with solid and motivational applications to biology. The book is a seamless and authoritative treatment, with broad scope, that makes an ideal text for an introductory course."

—Simon A. Levin, editor of *The Princeton Guide to Ecology*

The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also presenting the computational tools needed to address problems not readily investigated using mathematics alone.

September 2014. 640 pages. 50 color illus.
100 line illus.
Cl: 978-0-691-15072-7 \$85.00 | £59.00

Forthcoming
Hidden Markov Processes
Theory and Applications to
Biology
M. Vidyasagar

"This book provides a terrific introduction to an important and widely studied field—Markov processes (including hidden Markov processes)—with a particular view toward applications to problems in biology. With a wonderful balance of rigor, intuition, and choice of topics, the book gives a unique treatment of the subject for those interested in both fundamental theory and important applications."

—Sanjeev Kulkarni, Princeton University

Princeton Series in Applied Mathematics

September 2014. 312 pages. 1 halftone.
13 line illus. 6 tables.
Cl: 978-0-691-13315-7 \$59.50 | £41.95

Forthcoming
Biomolecular Feedback Systems
Domitilla Del Vecchio & Richard M. Murray

"This is an excellent compendium of the most important techniques and results in the application of feedback and control to biomolecular systems."

—Ernesto Estrada, University of Strathclyde

Featuring numerous exercises and illustrations throughout, *Biomolecular Feedback Systems* is the ideal textbook for advanced undergraduates and graduate students. For researchers, it can also serve as a self-contained reference on the feedback control techniques that can be applied to biomolecular systems.

November 2014. 304 pages. 13 halftones.
113 line illus. 3 tables.
Cl: 978-0-691-16153-2 \$85.00 | £59.00

New

One of the *New Scientist's* Best Science Books of 2013

Bugs Rule!

An Introduction to the World of Insects
Whitney Cranshaw & Richard Redak



"Breadth classes dealing with insects have been extremely popular among science and nonscience majors for decades. The photographs, illustrations, little known facts, and sidebars in *Bugs Rule!* bring to life the fascinating world of insects. *Bugs Rule!* is an excellent text for the nonscience major and general nature enthusiast."

—Michael K. Rust, University of California, Riverside

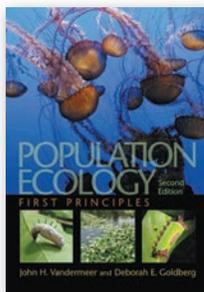
Ideal for nonscience majors and anyone seeking to learn more about insects and their arthropod relatives, *Bugs Rule!* offers a one-of-a-kind gateway into the world of these amazing creatures.

2013. 496 pages. 830+ color photos. 18 tables.
Cl: 978-0-691-12495-7 \$55.00 | £37.95

Professors who wish to consider a book from this catalog for course use may request an examination copy. For more information please visit: press.princeton.edu/class.html



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New Second Edition
Population Ecology
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John H. Vandermeer & Deborah E. Goldberg

Praise for the first edition:

“Superbly crafted.”
 —*Choice*

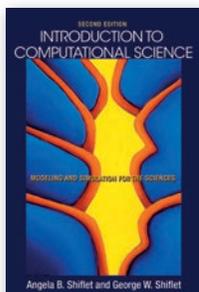
“Vandermeer and Goldberg do an admirable job of explaining the ecological meaning and assumptions behind all of the mathematical results presented. They include many figures that illustrate their points clearly and these are accompanied with detailed verbal explanations.”

—Helen M. Regan, *Ecology*

2013. 288 pages. 8 halftone. 88 line illus. 8 tables.

Pa: 978-0-691-16031-3 \$75.00 | £52.00
 Cl: 978-0-691-16030-6 \$95.00 | £65.00

New Second Edition
Introduction to Computational Science
 Modeling and Simulation for the Sciences
Angela B. Shiflet & George W. Shiflet



Praise for the previous edition:

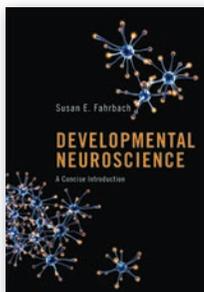
“A masterpiece. I know of nothing comparable. I give it five stars.”

—James M. Cargal, *UMAP Journal*

“*Introduction to Computational Science* is useful for students and others who want to obtain some of the basic skills of the field. Its impressive collection of projects allows readers to quickly enjoy the power of modern computing as an essential tool in building scientific understanding.”

—Wouter van Joolingen, *Physics Today*

2014. 856 pages. 3 halftones. 204 line illus. 80 tables.
 Cl: 978-0-691-16071-9 \$99.50 | £69.95



New
Developmental Neuroscience
 A Concise Introduction
Susan E. Fahrbach

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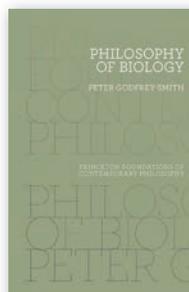
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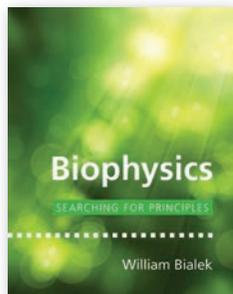
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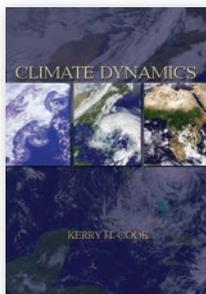


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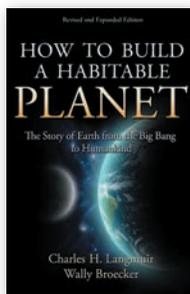


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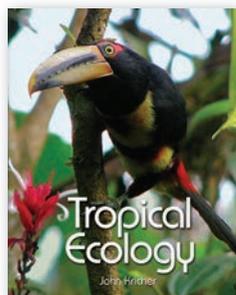
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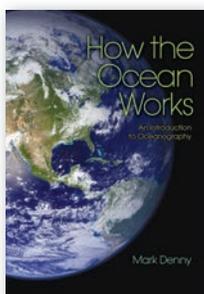


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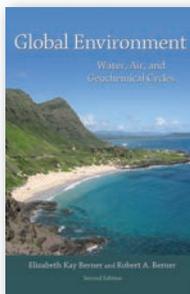
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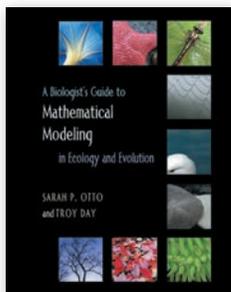
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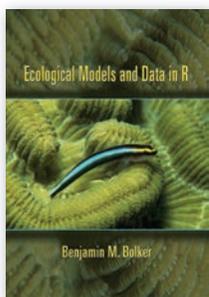
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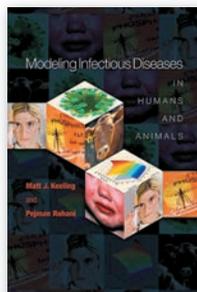
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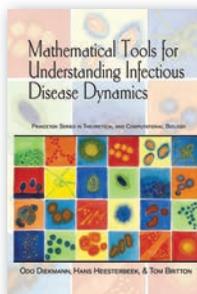
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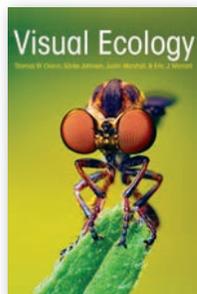
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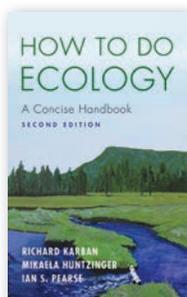
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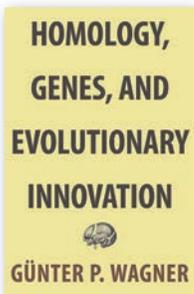
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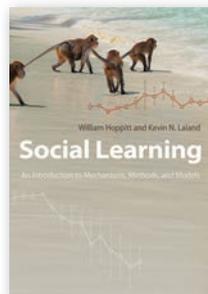
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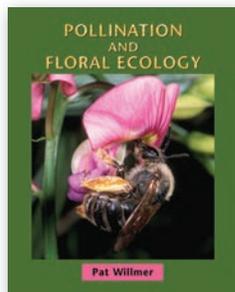
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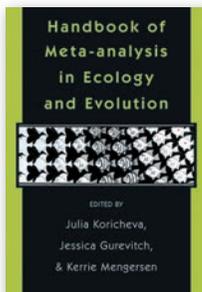
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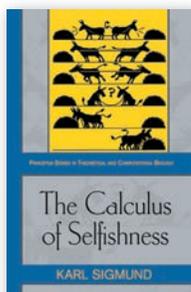
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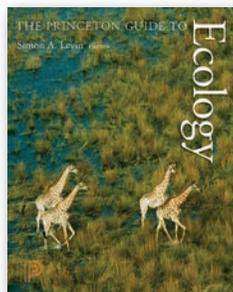
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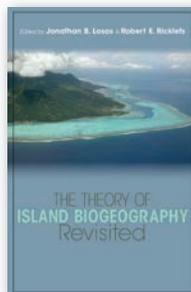
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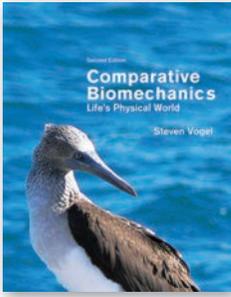
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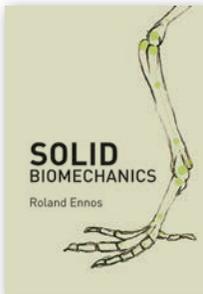
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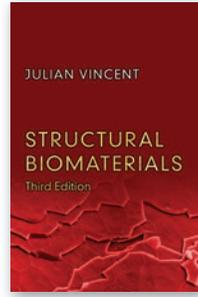
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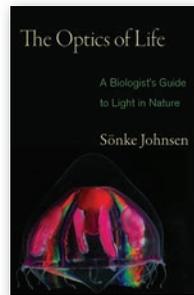
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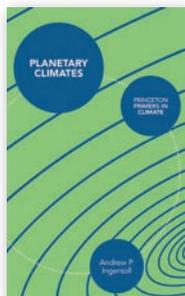
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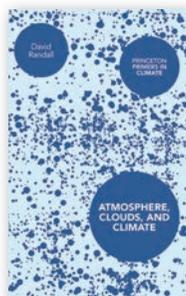
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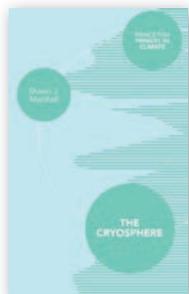
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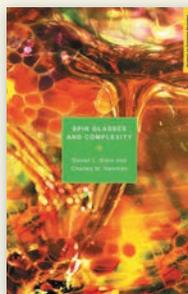
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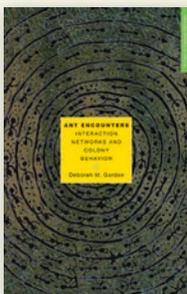
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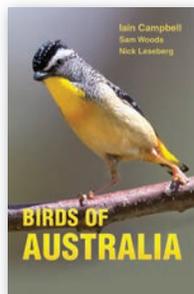
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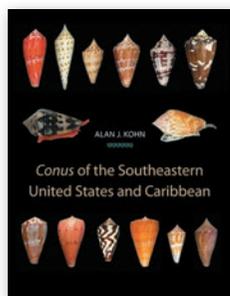


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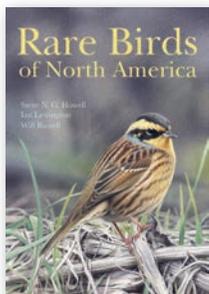


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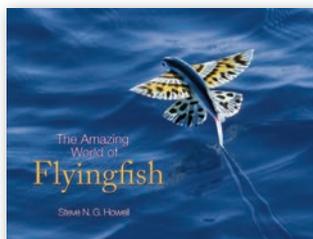


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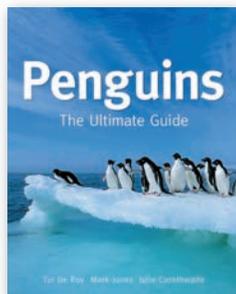


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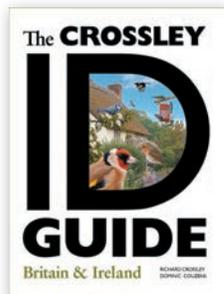
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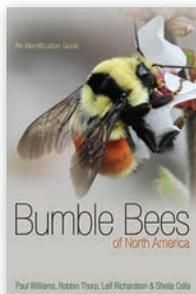
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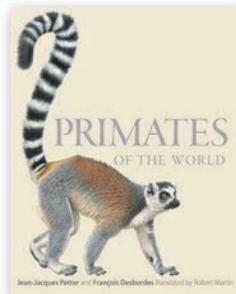
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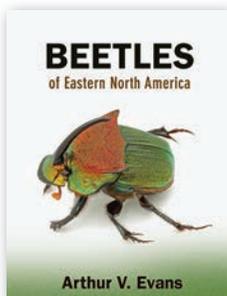
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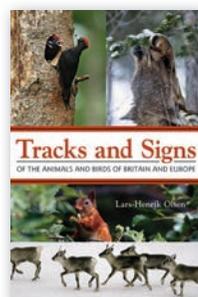
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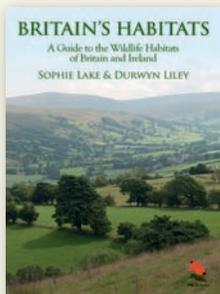
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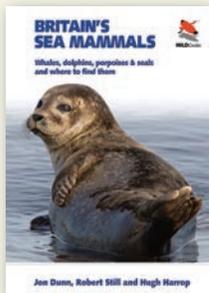


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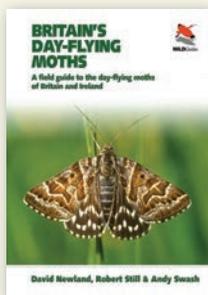
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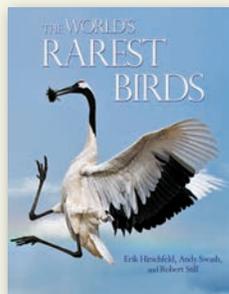
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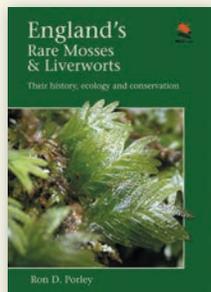
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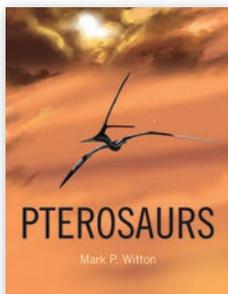


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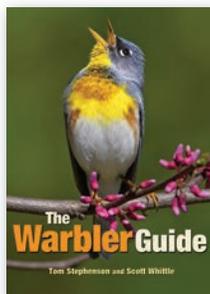
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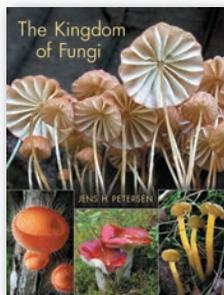
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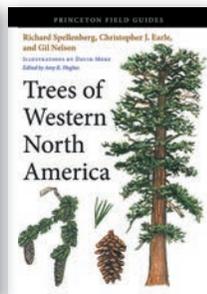
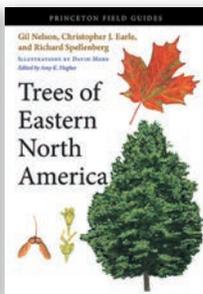
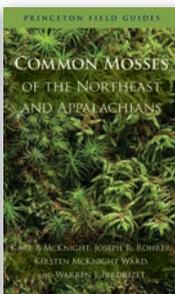
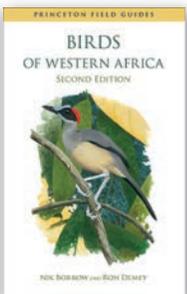
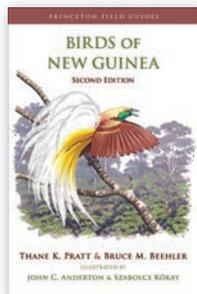
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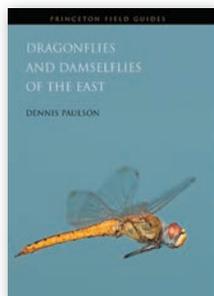
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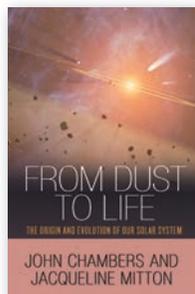
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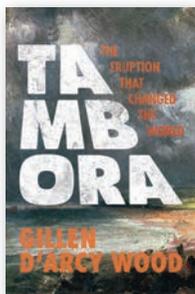
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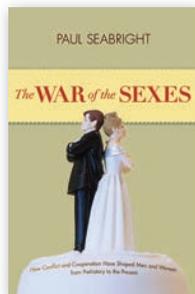
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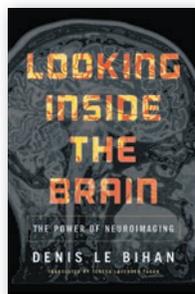
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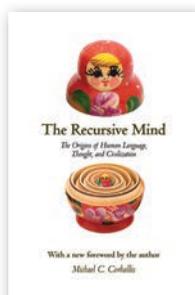
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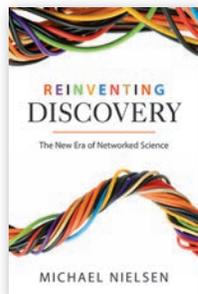
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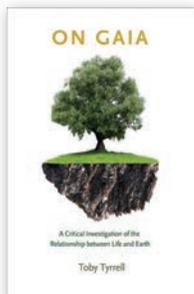
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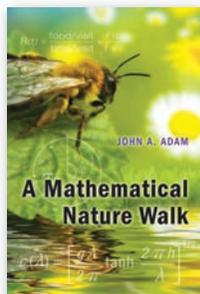
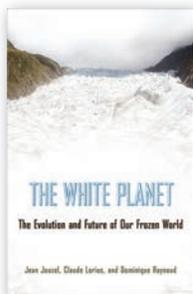
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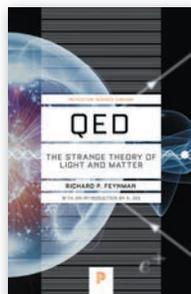
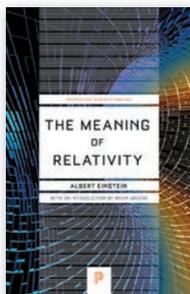
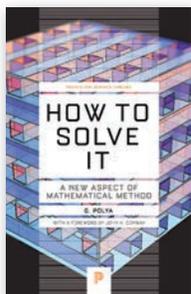
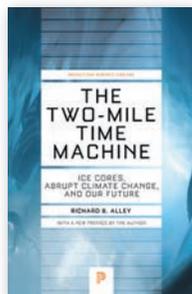
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