

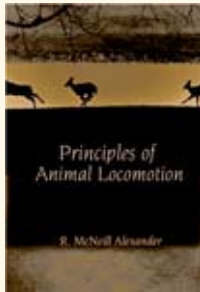
Biology
2009-2010




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Front Cover: Shutterstock photo, Wild African Elephant in Serengeti National Park



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Principles of Animal Locomotion

R. McNeill Alexander

See page 15 for details.

2006. 384 pages. 105 line illus. 6 tables.
Pa: 978-0-691-12634-0 \$55.00 | £40.00
Cl: 978-0-691-08678-1 \$94.00 | £70.00

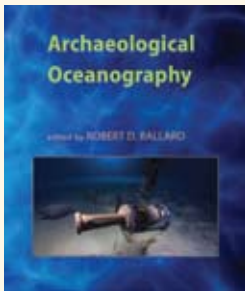
New

Archaeological Oceanography

Edited by Robert D. Ballard

See page 13 for details.

2008. 296 pages. 170 color illus. 8 line illus.
Cl: 978-0-691-12940-2 \$45.00 | £33.95



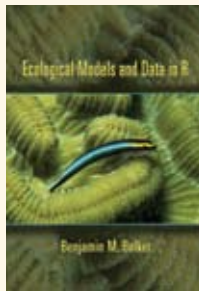
New

Ecological Models and Data in R

Benjamin M. Bolker

See page 7 for details.

2008. 408 pages. 99 line illus.
Cl: 978-0-691-12522-0 \$55.00 | £40.00



New

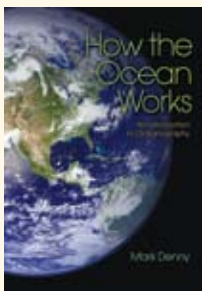
How the Ocean Works

An Introduction to Oceanography

Mark Denny

See page 13 for details.

2008. 344 pages. 148 color illus. 7 tables.
Pa: 978-0-691-12647-0 \$45.00 | £33.95



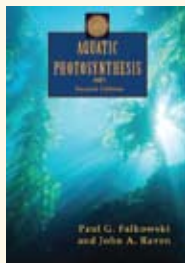
Second Edition

Aquatic Photosynthesis

**Paul G. Falkowski &
John A. Raven**

See page 14 for details.

2006. 496 pages. 8 color plates. 10 halftones.
145 line illus. 22 tables.
Pa: 978-0-691-11551-1 \$60.00 | £45.00
Cl: 978-0-691-11550-4 \$115.00 | £85.00



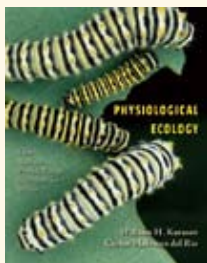
Physiological Ecology

How Animals Process Energy,
Nutrients, and Toxins

**William H. Karasov &
Carlos Martínez del Río**

See page 6 for details.

2007. 744 pages. 40 halftones. 242 line illus.
Cl: 978-0-691-07453-5 \$75.00 | £55.00



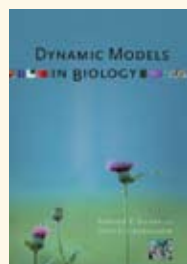
How to Do Ecology

A Concise Handbook

**Richard Karban &
Mikaela Huntzinger**

See page 7 for details.

2006. 168 pages. 10 line illus. 4 tables.
Pa: 978-0-691-12577-0 \$16.95 | £12.95

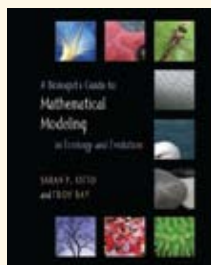
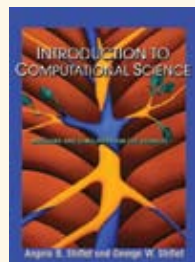


A Biologist's Guide to Mathematical Modeling in Ecology and Evolution

Sarah P. Otto & Troy Day

See page 16 for details.

2007. 744 pages. 207 line illus. 22 tables.
Cl: 978-0-691-12344-8 \$75.00 | £55.00



Dynamic Models in Biology

**Stephen P. Ellner &
John Guckenheimer**

See page 17 for details.

2006. 352 pages. 10 halftones. 90 line illus. 15 tables.
Pa: 978-0-691-12589-3 \$60.00 | £45.00
Cl: 978-0-691-11843-7 \$115.00 | £85.00

Second Edition

Evolutionary Ecology of Parasites

Robert Poulin

See page 6 for details.

2006. 360 pages. 109 line illus. 2 tables.
Pa: 978-0-691-12085-0 \$50.00 | £37.00
Cl: 978-0-691-12084-3 \$115.00 | £85.00

Introduction to Computational Science

Modeling and Simulation for
the Sciences

**Angela B. Shiflet &
George W. Shiflet**

See page 17 for details.

2006. 576 pages. 198 line illus. 62 tables.
Cl: 978-0-691-12565-7 \$75.00 | £55.00

Comparative Biomechanics

Life's Physical World

Steven Vogel

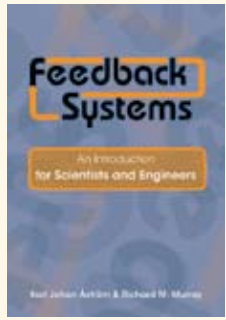
See page 15 for details.

2003. 592 pages. 234 line illus. 33 tables.
Cl: 978-0-691-11297-8 \$79.50 | £60.00



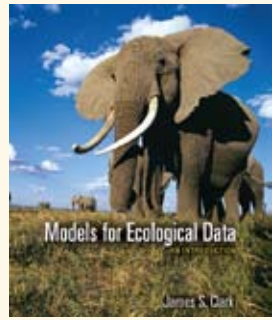
Fisheries Ecology and Management
Carl J. Walters & Steven J. D. Martell

See page 14 for details.
 2004. 448 pages. 95 line illus. 7 tables.
 Pa: 978-0-691-11545-0 \$61.00 | £45.00
 Cl: 978-0-691-11544-3 \$125.00 | £92.50



Feedback Systems
 An Introduction for Scientists and Engineers
Karl Johan Åström & Richard M. Murray

See page 17 for details.
 2008. 408 pages. 24 halftones. 183 line illus. 5 tables.
 Cl: 978-0-691-13576-2 \$50.00 | £37.00



Models for Ecological Data
 An Introduction
James S. Clark

See page 17 for details.
 2007. 632 pages. 163 line illus. 21 tables.
 Cl: 978-0-691-12178-9 \$75.00 | £55.00
 Models for Ecological Data—Lab Manual
 2007. 152 pages.
 Pa: 978-0-691-12262-5 \$21.95 | £16.95

Ocean Biogeochemical Dynamics
Jorge L. Sarmiento & Nicolas Gruber

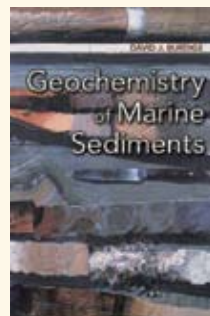
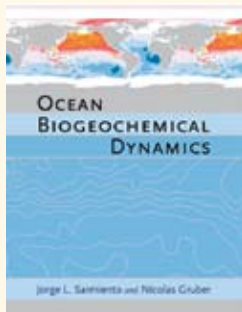
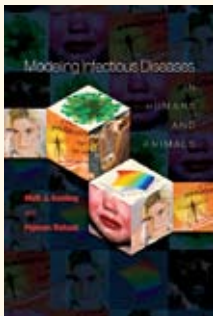
See page 14 for details.
 2006. 528 pages. 8 color plates. 102 halftones. 178 line illus. 62 tables.
 Cl: 978-0-691-01707-5 \$75.00 | £55.00

Modeling Infectious Diseases in Humans and Animals
Matt J. Keeling & Pejman Rohani

See page 17 for details.
 2007. 384 pages. 141 line illus. 7 tables.
 Cl: 978-0-691-11617-4 \$65.00 | £49.00

Geochemistry of Marine Sediments
David J. Burdige

See page 14 for details.
 2006. 624 pages. 33 halftones. 75 line illus. 33 tables.
 Cl: 978-0-691-09506-6 \$85.00 | £63.00



Forthcoming

The Princeton Guide to Ecology

Edited by Simon A. Levin

Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig,
Michel Loreau, Jonathan B. Losos, Brian Walker & David S. Wilcove,
associate editors

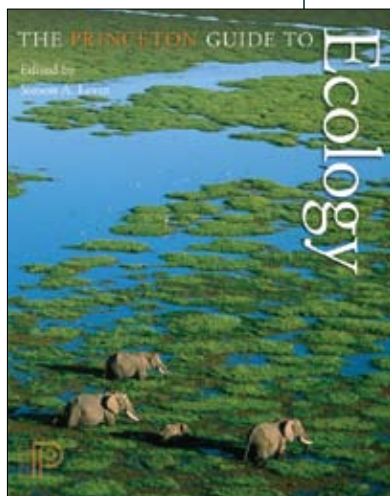
“Essential reading for biologists, social scientists, and all interested in a holistic view of the world, this marvelous collection presents the flourishing state of ecology today and its even more exciting prospects for the future.”

—Peter H. Raven, Missouri Botanical Garden

The Princeton Guide to Ecology is a concise, authoritative one-volume reference to the field's major subjects and key concepts. Edited by eminent ecologist Simon Levin, with contributions from an international team of leading ecologists, the book contains more than ninety clear, accurate, and up-to-date articles on the most important topics within seven major areas: autecology, population ecology, communities and ecosystems, landscapes and the biosphere, conservation biology, ecosystem services, and biosphere management. Complete with more than 200 illustrations (including sixteen pages in color), a glossary of key terms, a chronology of milestones in the field, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, research ecologists, scientists in related fields, policymakers, and anyone else with a serious interest in ecology.

- Explains key topics in one concise and authoritative volume
- Features more than ninety articles written by an international team of leading ecologists
- Contains more than 200 illustrations, including sixteen pages in color
- Includes glossary, chronology, suggestions for further reading, and index
- Covers autecology, population ecology, communities and ecosystems, landscapes and the biosphere, conservation biology, ecosystem services, and biosphere management

Simon A. Levin is the George M. Moffett Professor of Biology and a professor of ecology and environmental biology at Princeton University, where he directs the Center for BioComplexity.



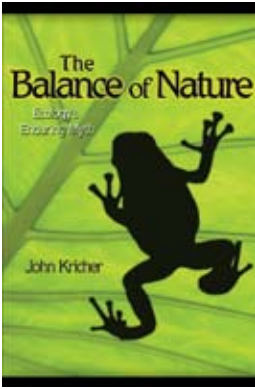
September 2009. 800 pages. 25 color illus. 14 halftones. 185 line illus. 22 tables.
Cl: 978-0-691-12839-9 \$85.00 | £63.00

New

The Balance of Nature

Ecology's Enduring Myth

John Kricher



"A deft and inviting tour of ecology and evolution, a book of revelation about the balance of nature that really counts, namely that between ourselves and the living planet."
—Thomas E. Lovejoy, H. John Heinz III Center for Science, Economics, and the Environment

The idea of a balance of nature has been a dominant part of Western philosophy since before Aristotle. In this lively and thought-provoking book, John Kricher demonstrates that nature in fact is not in balance, nor has it ever been. He explains how and why this notion of a natural world in balance has endured for so long, and he shows why, in these times of extraordinary human influence on the planet's ecosystems, it is critical that we accept that evolution is a fact of life.

John Kricher is the A. Howard Meneely Professor of Biology at Wheaton College.

2009. 256 pages.

Cl: 978-0-691-13898-5

\$24.95 | £18.95



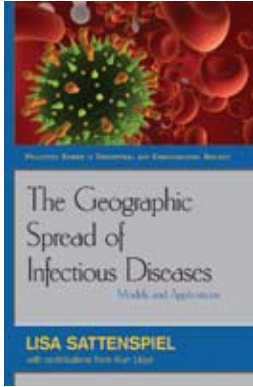
New

The Geographic Spread of Infectious Diseases

Models and Applications

Lisa Sattenspiel

With contributions from Alun Lloyd



"I found this book to be tightly and cogently written, supplying a level of detail that will be really useful for advanced undergraduates, graduate students, and researchers."
—Andrew P. Dobson, Princeton University

The success in containing the spread of SARS was due largely to the rapid global response by public health authorities, which was aided by insights resulting from mathematical models. Lisa Sattenspiel and Alun Lloyd provide a comprehensive introduction to mathematical models in epidemiology and show how they can be used to control the spread of major epidemics.

Lisa Sattenspiel is professor of anthropology at the University of Missouri. Alun Lloyd is associate professor of mathematics at North Carolina State University.

Princeton Series in Theoretical and Computational Biology

2009. 304 pages. 44 line illus. 1 table.

Cl: 978-0-691-12132-1

\$49.50 | £37.00

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Forthcoming

The Theory of Island Biogeography Revisited

Edited by Jonathan B. Losos & Robert E. Ricklefs

"This wonderful and lively book provides a fitting forty-year retrospective on MacArthur and Wilson's seminal volume. I can easily see it on the shelf of every serious graduate student of community ecology. It has all the 'right' names in it—many of them personal friends of MacArthur and Wilson—plus a bunch of rising stars of the next generation. This book should create quite a ripple in the field."

—William H. Schlesinger, Cary Institute of Ecosystem Studies

Robert H. MacArthur and Edward O. Wilson's *The Theory of Island Biogeography*, first published by Princeton in 1967, is one of the most influential books on ecology and evolution to appear in the past half century. By developing a general mathematical theory to explain a crucial ecological problem—the regulation of species diversity in island populations—the book transformed the science of biogeography and ecology as a whole. In *The Theory of Island Biogeography Revisited*, some of today's most prominent biologists assess the continuing impact of MacArthur and Wilson's book four decades after its publication.

Jonathan B. Losos is professor in the Department of Organismic and Evolutionary Biology and the curator of herpetology in the Museum of Comparative Zoology at Harvard University. Robert E. Ricklefs is the Curators' Professor of Biology at University of Missouri, St. Louis.

December 2009. 424 pages. 11 halftones. 100 line illus. 16 tables.

Pa: 978-0-691-13653-0 \$45.00 | £33.95

Cl: 978-0-691-13652-3 \$99.50 | £75.00

New

James Lovelock

In Search of Gaia

John Gribbin & Mary Gribbin



"This book is an homage to Lovelock. The Gribbins have spent time with him, looked at his personal archives with him, and obviously the book is coming out of a deep admiration for his work. The biographical chapters are inter-

persed with science chapters, including a good one on the history of our understanding of the greenhouse effect, and others that cover Earth's biogeochemical cycles."

—Tyler Volk, author of *CO2 Rising*

In 1972, when James Lovelock first proposed the Gaia hypothesis—the idea that the Earth is a living organism that maintains conditions suitable for life—he was ridiculed by the scientific establishment. Today Lovelock's revolutionary insight, though still extremely controversial, is recognized as one of the most creative, provocative, and captivating scientific ideas of our time. *James Lovelock* tells for the first time the whole story of this maverick scientist's life and how it served as a unique preparation for the idea of Gaia.

John Gribbin is a visiting fellow in astronomy at the University of Sussex. Mary Gribbin has written many books with John Gribbin.

2009. 288 pages. 19 halftones.

Cl: 978-0-691-13750-6 \$24.95

For sale only in the U.S., its territories, and dependencies

Physiological Ecology

How Animals Process Energy, Nutrients, and Toxins

William H. Karasov & Carlos Martínez del Río



"This extraordinary book by Karasov and Martínez del Río integrates a wealth of research about how animals select, consume, and process food. ...Accessibly written, with clear, informative graphs and line drawings."
—P. E. Hertz, *Choice*

"This is an excellent textbook for undergraduate—and graduate-level courses, and is recommended for researchers who are interested in an up-to-date overview of this field."

—Raymond Barbehenn, *Quarterly Review of Biology*

2007. 744 pages. 40 halftones. 242 line illus.
Cl: 978-0-691-07453-5 \$75.00 | £55.00

New Paperback

Resource Strategies of Wild Plants

Joseph M. Craine



"Accessible, concise, and clear, this book reviews and analyzes the main conceptual advances in plant ecology."
—Francisco I. Pugnaire, Spanish National Council for Scientific Research

Over millions of years, terrestrial

plants have resisted a myriad of environmental stresses. These struggles have helped generate more than a quarter million terrestrial plant species, each possessing a unique strategy for success. Yet, as *Resource Strategies of Wild Plants* demonstrates, the constraints on plant growth are universal enough that a few survival strategies hold true for all seed-producing plants.

Joseph M. Craine is assistant professor of biology at Kansas State University.

2009. 352 pages. 2 halftones. 37 line illus. 1 table.
Pa: 978-0-691-13912-8 \$45.00 | £33.95
Cl: 978-0-691-13911-1 \$99.50 | £75.00

Second Edition

Evolutionary Ecology of Parasites

Robert Poulin

"The style of writing is superbly lucid and well organized. The discussion flows from one topic to the next, creating continuum. Poulin covers an impressive range of information on parasite ecology and evolution."

—R. C. Tinsley, *Parasitology*

Evolutionary Ecology of Parasites presents an evolutionary framework for the study of parasite biology, combining theory with empirical examples for a broader understanding of why parasites are as they are and do what they do. An up-to-date synthesis of the field, the book is an ideal teaching tool for advanced courses on the subject.

2006. 360 pages. 109 line illus. 2 tables.
Pa: 978-0-691-12085-0 \$50.00 | £37.00
Cl: 978-0-691-12084-3 \$115.00 | £85.00

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Forthcoming

Scale, Heterogeneity, and the Structure and Diversity of Ecological Communities

Mark E. Ritchie

"This is an ambitious book that takes ideas from existing equilibrium-based ecological theory and adds the innovation that population equilibria are determined by resource use in a heterogeneous environment. The ideas the author presents are stimulating and innovative. There is no doubt in my mind that this is an important, timely book."

—Brian A. Maurer, Michigan State University

Understanding and predicting species diversity in ecological communities is one of the great challenges in community ecology. Popular recent theory contends that the traits of species are "neutral" or unimportant to coexistence, yet abundant experimental evidence suggests that multiple species are able to coexist on the same limiting resource precisely because they differ in key traits, such as body size, diet, and resource demand. This book presents a new theory of coexistence that incorporates two important aspects of biodiversity in nature—scale and spatial variation in the supply of limiting resources.

Mark E. Ritchie is professor of biology at Syracuse University.

Monographs in Population Biology

November 2009. 232 pages. 62 line illus. 2 tables.

Pa: 978-0-691-09070-2 \$35.00 | £25.95

Cl: 978-0-691-09069-6 \$75.00 | £55.00

How to Do Ecology

A Concise Handbook

Richard Karban & Mikaela Huntzinger

"[A] refreshing, concise work aimed primarily at those contemplating or performing ecological research studies. The authors' approach will be equally beneficial to those in various other areas of study.... Highly recommended."

—*Choice*

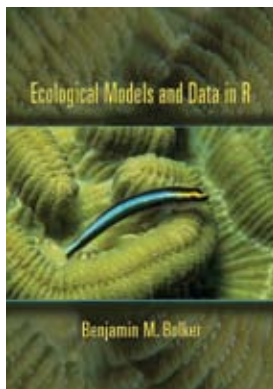
2006. 168 pages. 10 line illus. 4 tables.

Pa: 978-0-691-12577-0 \$16.95 | £12.95

New

Ecological Models and Data in R

Benjamin M. Bolker



"I have no doubt that this book will become a fixture on many ecologists' bookshelves (it certainly will be on mine). With a presentation that is gentle and encouraging rather than jargon-filled and intimidating, it empowers ecologists to develop their own statistical procedures. I strongly recommend it."

I strongly recommend it."

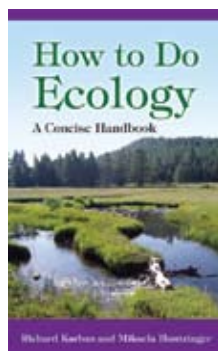
—Timothy Essington, University of Washington

Ecological Models and Data in R is the first truly practical introduction to modern statistical methods for ecology. In step-by-step detail, the book teaches ecology graduate students and researchers everything they need to know in order to use maximum likelihood, information-theoretic, and Bayesian techniques to analyze their own data using the programming language R.

Benjamin M. Bolker is a theoretical ecologist in the Department of Zoology at the University of Florida.

2008. 408 pages. 99 line illus.

Cl: 978-0-691-12522-0 \$55.00 | £40.00



Forthcoming

Sex Allocation

Stuart West

"West has great command of a vast body of theory and empirical work, but this book does more than synthesize existing literature. West explains what has been accomplished, where the field has failed to clear things up, and what needs to be done."

—Steven A. Frank, University of California, Irvine

Recent decades have witnessed an explosion of theoretical and empirical studies of sex allocation, transforming how we understand the allocation of resources to male and female reproduction in vertebrates, invertebrates, protozoa, and plants. In this landmark book, Stuart West synthesizes the vast literature on sex allocation, providing the conceptual framework the field has been lacking and demonstrating how sex-allocation studies can shed light on broader questions in evolutionary and behavioral biology.

West clarifies fundamental misconceptions in the application of theory to empirical data. He examines the field's successes and failures, and describes the research areas where much important work is yet to be done. He shows how research into sex allocation has been central to many critical questions and controversies in evolutionary and behavioral biology, arguing that sex-allocation research serves as a key testing ground for different theoretical approaches and can help resolve current debates about social evolution, parent-offspring conflict, genomic conflict, and levels of selection.

Stuart West is professor of evolutionary biology at the University of Edinburgh.

Monographs in Population Biology

November 2009. 488 pages. 107 line illus. 15 tables. 6 x 9.

Pa: 978-0-691-08964-5 \$45.00 | £33.95

Cl: 978-0-691-08963-8 \$99.50 | £75.00

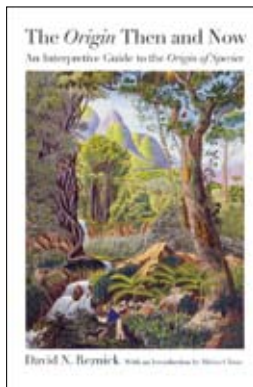
Forthcoming

With an introduction by Michael Ruse

The *Origin* Then and Now

An Interpretive Guide to the *Origin of Species*

David N. Reznick



"This is a beautiful book—the best book I have ever read dealing with the *Origin*. It will move many people, experts and lay readers alike."

—Lee Alan Dugatkin, author of *Principles of Animal Behavior*

Charles Darwin's *Origin of Species* is one of the most widely cited books in modern science. Yet attempting this classic can be daunting for students and general readers alike because of Darwin's Victorian prose and the complexity and scope of his ideas. *The "Origin" Then and Now* is a unique guide to Darwin's masterwork, making it accessible to a much wider audience by deconstructing and reorganizing the *Origin* in a way that allows for a clear explanation of its key concepts. The *Origin* is examined within the historical context in which it was written, and modern examples are used to reveal how this classic work remains a relevant and living document for today.

The "Origin" Then and Now is an indispensable primer for anyone seeking to understand Darwin's *Origin of Species* and the ways it has shaped the modern study of evolution.

David N. Reznick is professor of biology at the University of California, Riverside.

November 2009. 480 pages. 36 halftones.

Cl: 978-0-691-12978-5 \$29.95 | £22.95

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New

Secular Cycles

Peter Turchin & Sergey A. Nefedov

"*Secular Cycles* is an ambitious, audacious, and engaging achievement from two very talented scholars. This stimulating book will attract interdisciplinary attention from those interested in global history and secular economic change."

—Cormac Ó Gráda, author of *Famine*

Many historical processes exhibit recurrent patterns of change. Century-long periods of population expansion come before long periods of stagnation and decline; the dynamics of prices mirror population oscillations; and states go through strong expansionist phases followed by periods of state failure, endemic sociopolitical instability, and territorial loss. Peter Turchin and Sergey Nefedov explore the dynamics and causal connections between such demographic, economic, and political variables in agrarian societies and offer detailed explanations for these long-term oscillations—what the authors call secular cycles.

Peter Turchin is professor of ecology and evolutionary biology and adjunct professor of mathematics at the University of Connecticut. Sergey A. Nefedov is senior research scientist at the Institute of History and Archaeology of the Russian Academy of Sciences, Ural Branch.

2009. 336 pages. 65 line illus. 68 tables.
Cl: 978-0-691-13696-7 \$35.00 | £25.95

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

Extinction

How Life on Earth Nearly Ended

250 Million Years Ago

Douglas H. Erwin



"[Erwin's] accessible new book, *Extinction*—written, it seems, both to persuade his colleagues and to educate a lay audience—is told from the perspective of a forensic scientist trying to piece together a quarter-billion-year-old crime scene."

—Joshua Foer, *Washington Post Book World*

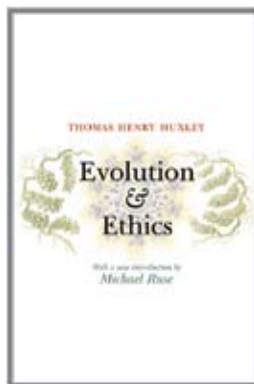
2008. 320 pages. 32 halftones. 32 line illus.
Pa: 978-0-691-13628-8 \$22.95 | £16.95
Cl: 978-0-691-00524-9 \$24.95 | £18.95

New Paperback

Evolution and Ethics

Thomas Henry Huxley

Edited and with a new introduction
by Michael Ruse



Praise for Princeton's previous edition:

"For Huxley, natural selection is not to be deemed a mixed blessing; rather, it is a damnable mix."

—Arthur Falk, *Humanist*

Thomas Henry Huxley (1825-1895) was one of the most prominent

evolutionists of the late nineteenth century. A close companion of Charles Darwin, Huxley developed a reputation as "Darwin's Bulldog" for his relentless defense of evolutionary theory. Huxley was also an ardent supporter of social reform, particularly in his call for quality education at all levels. *Evolution and Ethics*, widely considered to be his greatest lecture, distilled a lifetime's wisdom and sensitive understanding of the nature and needs of humankind. This new edition features an introduction by renowned historian and philosopher of biology Michael Ruse, placing Huxley's lecture in its original context while showing its even deeper relevance for our own time.

Michael Ruse is the Lucyle T. Werkmeister Professor of Philosophy and director of the Program in the History and Philosophy of Science at Florida State University.

2009. 176 pages.
Pa: 978-0-691-14130-5 \$16.95 | £12.95
Cl: 978-0-691-14192-3 \$39.50 | £29.95

New

Forms of Becoming

The Evolutionary Biology of Development

Alessandro Minelli



"Minelli takes up important messages from development, evolution, and the interaction between the two. Interesting, unique, and well-written, this book is a great read from a master of the subject."

—Wallace Arthur,
National University of Ireland

What comes first, form or function? Trumpeted as the future of biological science, evolutionary developmental biology (or "evo-devo") answers this fundamental question by showing how evolution controls the development of organisms. In *Forms of Becoming*, Alessandro Minelli, a leading international figure in the field, takes an in-depth and comprehensive look at the history and key issues of evo-devo. Spirited and insightful, this book focuses on the innovative ways animal organisms evolve through competition and cooperation.

Alessandro Minelli is professor of zoology at the University of Padua in Italy.

2009. 242 pages. 17 line illus.

Cl: 978-0-691-13568-7 \$27.95 | £20.95

Translation funded by SEPS—Segretariato Europeo per le Pubblicazioni Scientifiche

Winner of the 2004 Award for Best Professional/Scholarly Book in Geology and Earth Science, Association of American Publishers

Nature

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Geerat J. Vermeij

"Novel and intriguing.... [*Nature*] offers a distinctive point of view and an insightful synthesis that promises to provide the basis of much future work."

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2006. 464 pages.

Pa: 978-0-691-12793-4

\$24.95 | £18.95

Cl: 978-0-691-11527-6

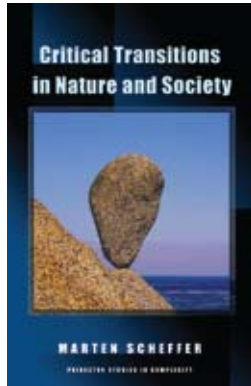
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Marten Scheffer is professor of environmental sciences at Wageningen University in the Netherlands.

Princeton Studies in Complexity.

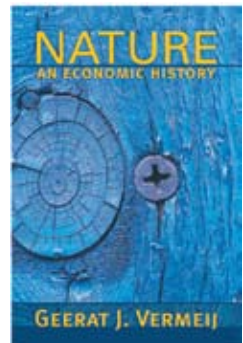
2009. 400 pages. 6 halftones. 131 line illus.

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Cl: 978-0-691-12203-8

\$99.50 | £75.00



Princeton Series in Evolutionary Biology

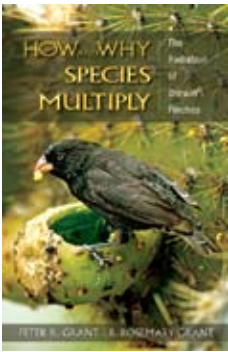
H. Allen Orr, series editor

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—Henry Nicholls, *New Scientist*

—Henry Nicholls, *New Scientist*

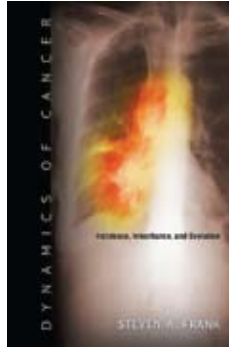
Charles Darwin's experiences in the Galápagos Islands in 1835 helped to guide his thoughts toward a revolutionary theory: that species were not fixed but diversified from their ancestors over many generations, and that the driving mechanism of evolutionary change was natural selection. In this concise, accessible book, Peter and Rosemary Grant explain what we have learned about the origin and evolution of new species through the study of the finches made famous by that great scientist: Darwin's finches.

2008. 272 pages. 120 color illus. 46 line illus. 3 tables.
Pa: 978-0-691-13360-7 \$37.50 | £28.95

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Incidence, Inheritance, and Evolution

Steven A. Frank



"*Dynamics of Cancer* emphasizes both the multiscale dynamics of the disease and an approach that synthesizes empirical knowledge with parsimonious, mathematical theory. Frank moves the field forward, narrowing the gap

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The onset of cancer presents one of the most fundamental problems in modern biology. In *Dynamics of Cancer*, Steven Frank produces the first comprehensive analysis of how particular genetic and environmental causes influence the age of onset.

2007. 400 pages. 5 halftones. 106 line illus. 3 tables.
Pa: 978-0-691-13366-9 \$45.00 | £33.95
Cl: 978-0-691-13365-2 \$110.00 | £82.00

Also by Steven A. Frank Immunology and Evolution of Infectious Disease

2002. 352 pages. 40 line illus.
Pa: 978-0-691-09595-0 \$46.00 | £33.95

Foundations of Social Evolution

1998. 280 pages. 2 tables. 39 line illus.
Pa: 978-0-691-05934-1 \$52.00 | £38.50

New

Exploring Animal Social Networks

Darren P. Croft, Richard James & Jens Krause



“This book introduces ecologists, behaviorists, and others studying social behavior to the methods of network analysis. It is clearly written and accessible to readers whose primary training is in biology, not physics, mathematics, or sociology—

the fields in which network techniques have largely been developed. The book is method oriented, so that it can serve as a practical guide to how readers can analyze their own data.”

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Social network analysis is used widely in the social sciences to study interactions among people, groups, and organizations, yet until now there has been no book that shows behavioral biologists how to apply it to their work on animal populations. *Exploring Animal Social Networks* provides a practical guide for researchers, undergraduates, and graduate students in ecology, evolutionary biology, animal behavior, and zoology.

Darren P. Croft is lecturer in animal behavior at the University of Wales, Bangor. Richard James is senior lecturer in physics at the University of Bath. Jens Krause is professor of behavioral ecology at the University of Leeds.

2008. 208 pages. 47 line illus. 17 tables.
Pa: 978-0-691-12752-1 \$35.00 | £25.95
Cl: 978-0-691-12751-4 \$75.00 | £55.00

New

The Social Amoebae

The Biology of Cellular Slime Molds

John Tyler Bonner



“Few scientists or authors can claim that the analyses and insights in their latest book are based on sixty years of original research, exploration, and childlike enthusiasm. We should be enormously grateful that John Tyler Bonner could make that claim about the

career he has spent with cellular slime molds. His book is beautifully written, enlightening, fascinating, historical yet up-to-date, whimsical when appropriate, and informative throughout in its analysis of two of evolution’s major themes—multicellular organization and sociality.”

—Brian Hall, coauthor of *Strickberger’s Evolution*

Noted biologist and author John Tyler Bonner has experimented with cellular slime molds for more than sixty years, and he has done more than anyone else to raise these peculiar collections of amoebae from a minor biological curiosity to a major model organism—one that is widely studied for clues to the development and evolution of all living things. Now, five decades after he published his first pioneering book on cellular slime molds, Bonner steps back from the proliferating and increasingly specialized knowledge about the organism to provide a broad, nontechnical picture of its whole biology, including its evolution, sociobiology, ecology, behavior, and development. *The Social Amoebae* draws the big lessons from decades of research, and shows how slime molds fit into and illuminate biology as a whole.

John Tyler Bonner is professor emeritus of ecology and evolutionary biology at Princeton University.

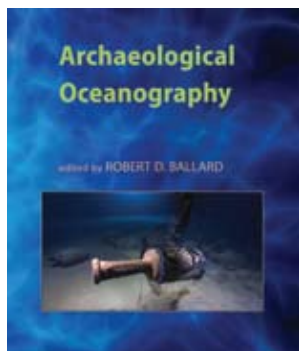
2009. 156 pages. 34 line illus.
Cl: 978-0-691-13939-5 \$19.95 | £14.95

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New

Archaeological Oceanography

Edited by Robert D. Ballard



"An excellent and accessible introduction to the work that Robert Ballard and his colleagues have done in the pioneering field of archaeology in the deep sea."

—David Mindell,

Massachusetts Institute of Technology

Archaeological Oceanography is the definitive book on the newly emerging field of deep-sea archaeology. This book describes the latest advances that enable researchers to probe the secrets of the deep ocean, and the vital contributions these advances offer to archaeology and fields like maritime history and anthropology.

Robert D. Ballard is president of the Institute for Exploration in Mystic, Connecticut, and professor of oceanography and director of the Institute for Archaeological Oceanography at the University of Rhode Island.

2008. 296 pages. 170 color illus. 8 line illus.
Cl: 978-0-691-12940-2 \$45.00 | £33.95

Honorable Mention, 2008 PROSE Award for Excellence in Earth Science, Association of American Publishers

How the Ocean Works An Introduction to Oceanography

Mark Denny

"An elegant presentation of how the ocean works.... Accessible and enjoyable reading, and the scholarship is very sound."

—Nicholas D. Holland, University of California, San Diego

2008. 344 pages. 148 color illus. 7 tables.
Pa: 978-0-691-12647-0 \$45.00 | £33.95

New

A Mechanistic Approach to Plankton Ecology

Thomas Kiørboe



"A considerable achievement, this book is a vital addition to the field and an important tool in assisting interdisciplinary investigations in ocean biology."
—Susanne Menden-Deuer, Princeton University

The three main missions of any organism—growing, reproducing, and surviving—depend on encounters with food and mates, and on avoiding encounters with predators. Through natural selection, the behavior and ecology of plankton organisms have evolved to optimize these tasks. This book offers a mechanistic approach to the study of ocean ecology by exploring biological interactions in plankton at the individual level.

Thomas Kiørboe is professor of ocean ecology at the National Institute of Aquatic Resources, Technical University of Denmark.

2008. 232 pages. 9 halftones. 71 line illus. 9 tables.
Cl: 978-0-691-13422-2 \$39.50 | £29.95

Sensuous Seas Tales of a Marine Biologist

Eugene H. Kaplan

"Eugene H. Kaplan has been teaching marine biology for half a century, and shares his experience of bringing the subject alive.... Each of the 31 chapters opens with either one of Kaplan's own memoirs or a scenario from his imagination, before exploring the marine biology behind the tale.... [T]he entertainment seldom flags."

—Jon Copley, *Nature*

2006. 150 pages. 31 line illus.
Cl: 978-0-691-12560-2 \$24.95 | £18.95

Fisheries Ecology and Management

Carl J. Walters & Steven J. D. Martell

"An extremely valuable book... [W]e believe this to be a very important text for fisheries ecology and management."

—Reviews in Fish Biology and Fisheries

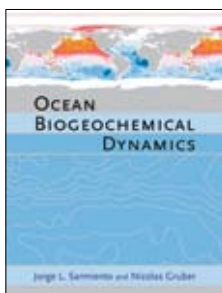
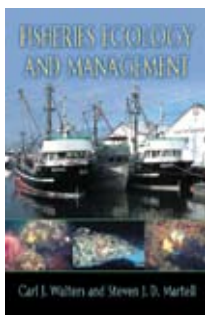
"This book is the next major contribution to the field of fisheries science. Walters and Martell provide fresh and non-intuitive perspectives on a variety of issues.... This will become a landmark work"

—Jeffrey Hutchings, Dalhousie University

2004. 448 pages. 95 line illus. 7 tables.

Pa: 978-0-691-11545-0 \$61.00 | £45.00

Cl: 978-0-691-11544-3 \$125.00 | £92.50



Geochemistry of Marine Sediments

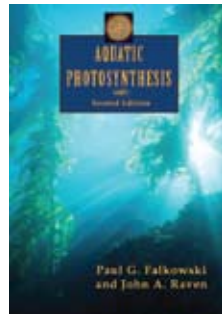
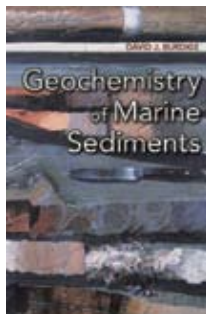
David J. Burdige

"Despite the complexity of the medium and the processes occurring in it, Burdige has written a comprehensive, well-organized, thoroughly referenced, and highly readable text. Marine sediments are important as habitats for life, in geochemical cycling elements, and as an essential record of the past. These themes are seamlessly integrated in the book, which should find a place on the shelves of anyone working in these areas."

—Carol Arnosti, *Limnology and Oceanography Bulletin*

2006. 624 pages. 33 halftones. 75 line illus. 33 tables.

Cl: 978-0-691-09506-6 \$85.00 | £63.00



Ocean Biogeochemical Dynamics

Jorge L. Sarmiento & Nicolas Gruber

"This textbook is a monumental and masterful achievement, and the authors should be congratulated both for taking on this important task and for the end result."

—David M. Karl, *Bulletin of the American Society for Limnology and Oceanography*

2006. 528 pages. 8 color plates. 102 halftones. 178 line illus. 62 tables.

Cl: 978-0-691-01707-5 \$75.00 | £55.00

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"[I]t is a pleasure to have this important volume back in print after a hiatus of several years. No other text covers the subject as lucidly or completely as this one, and that makes it an extremely valuable pedagogical reference. It will be a welcome addition to any library or personal collection."

—Richard C. Zimmerman, *Limnology and Oceanography Bulletin*

2006. 496 pages. 8 color plates. 10 halftones. 145 line illus. 22 tables.

Pa: 978-0-691-11551-1 \$60.00 | £45.00

Cl: 978-0-691-11550-4 \$115.00 | £85.00

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Forthcoming

Glimpses of Creatures in Their Physical Worlds

Steven Vogel

"This charismatic book is a fascinating read and Vogel is exceptionally good at presenting the material so that it is accessible to a general audience."

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Glimpses of Creatures in Their Physical Worlds offers insights into how the characteristics of the physical world drive the designs of animals and plants. These characteristics impose limits but also create remarkable and subtle opportunities for the functional biology of organisms. In particular, Steven Vogel examines the size, scale, and trade-offs of different physical processes. He pays attention to how the forms and activities of animals and plants reflect the materials available to nature, and he explores the unique constraints and possibilities provided by fluid flow, structural design, and environmental forces.

Each chapter of the book investigates a facet of the physical world, including the drag on small projectiles; the importance of diffusion and convection; the size-dependence of acceleration; the storage, conduction, and dissipation of heat; the relationship between pressure, flow, and choice among biological pumps; and how elongate structures tune their relative twistiness and bendiness. Vogel considers design-determining factors all too commonly ignored, and builds a knowledgeable bridge between the world described by physics books and the reality experienced by all creatures.

Steven Vogel is James B. Duke Professor Emeritus of Biology at Duke University.

October 2009. 312 pages. 16 halftones. 50 line illus. 6 tables. 6 x 9.

Pa: 978-0-691-13807-7 \$35.00 | £25.95

Cl: 978-0-691-13806-0 \$75.00 | £55.00

Also by Steven Vogel

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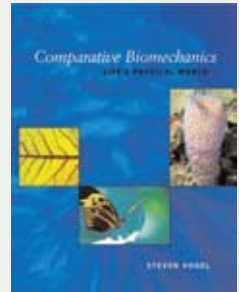
Life's Physical World

"A delightful and comprehensive textbook that is perfect for undergraduates and those of us who need a refresher."

—Daniel E. Lieberman, *Nature*

2003. 592 pages. 234 line illus. 33 tables.

Cl: 978-0-691-11297-8 \$79.50 | £60.00



Bones

Structure and Mechanics

John D. Currey

"Currey's book admirably accomplishes the goal of making the vast field of research into bone mechanics and adaptations accessible to serious investigators in other disciplines.... It conveys the contagious enthusiasm of a mentor guiding his reader into the heart of his specialty."

—Mary W. Marzke, *American Journal of Human Biology*

2006. 456 pages. 151 line illus. 38 tables.

Pa: 978-0-691-12804-7 \$46.00 | £33.95

Principles of Animal Locomotion

R. McNeill Alexander

"The book will be a godsend for any lecturer looking for a course book about animal locomotion, and many a naturalist will find that it sheds a flood of light on the reasons behind the endlessly surprising things that animals do.... [A] 'must have' for anyone who thinks in terms of physics about the way animals work."

—C. J. Pennycuik, *Trends in Ecology and Evolution*

2006. 384 pages. 105 line illus. 6 tables.

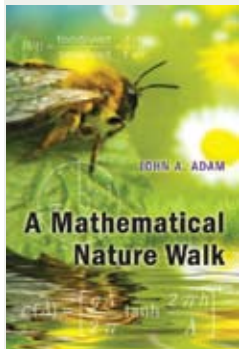
Pa: 978-0-691-12634-0 \$55.00 | £40.00

Cl: 978-0-691-08678-1 \$94.00 | £70.00

New

A Mathematical Nature Walk

John A. Adam



“John Adam presents a wonderful set of mathematical inquiries into a broad range of natural phenomena. This rich book will be interesting to mathematically minded readers who are inspired by nature.”

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John A. Adam is professor of mathematics at Old Dominion University.

2009. 296 pages. 17 color illus. 22 halftones. 97 line illus.
Cl: 978-0-691-12895-5 \$27.95 | £20.95

Also by John A. Adam

John Adam, Winner of the 2007 Virginia Outstanding Faculty Award, State Council of Higher Education for Virginia

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Winner of the 2003 Award for Best Professional/Scholarly Book in Mathematics and Statistics, Association of American Publishers

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Tools and Techniques for Scientific Computing

Ben Klemens



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—Brendan Halpin, University of Limerick

Ben Klemens is a senior statistician at the National Institute of Mental Health.

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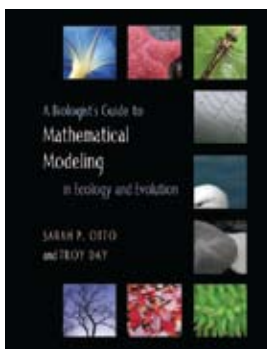
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Honorable Mention, 2007 Award for Best Professional/Scholarly Book in Biological Sciences, Association of American Publishers

A Biologist's Guide to Mathematical Modeling in Ecology and Evolution

Sarah P. Otto & Troy Day



“A gentle but thorough introduction to the mathematical techniques employed in ecological and evolutionary theory. Readers who ... finish this well-written book will be prepared to read and understand a sizeable

fraction of the current literature.”

—Donald L. EeAngelis, *Quarterly Review of Biology*

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Stephen P. Ellner &
John Guckenheimer

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—Marc Mangel, *SIAM Review*

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Pa: 978-0-691-12589-3 \$60.00 | £45.00
Cl: 978-0-691-11843-7 \$115.00 | £85.00

Feedback Systems

An Introduction for Scientists and Engineers

Karl Johan Åström &
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—Elling W. Jacobsen, Royal Institute of Technology, Stockholm

This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory.

2008. 408 pages. 24 halftones. 183 line illus. 5 tables.
Cl: 978-0-691-13576-2 \$50.00 | £37.00

Modeling Infectious Diseases in Humans and Animals

Matt J. Keeling & Pejman Rohani

"Keeling and Rohani have written an accessible and much-needed introduction to this field."

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This book provides a timely and comprehensive introduction to the modeling of infectious diseases in humans and animals, focusing on recent developments as well as more traditional approaches.

2007. 384 pages. 141 line illus. 7 tables.
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Andrea Shiflet, Winner of the 2006 Undergraduate Computational Engineering and Sciences Award, The Krell Institute

Introduction to Computational Science

Modeling and Simulation for the Sciences

Angela B. Shiflet & George W. Shiflet

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—Bill Satzer, *MAA Reviews*

2006. 576 pages. 198 line illus. 62 tables.
Cl: 978-0-691-12565-7 \$75.00 | £55.00

Models for Ecological Data

An Introduction

James S. Clark

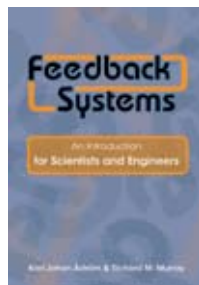
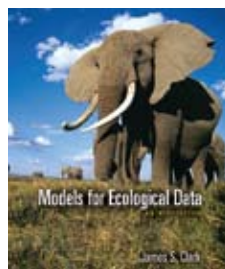
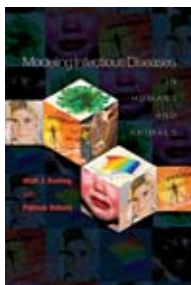
"This volume presents a wealth of interesting research and theory development to encourage further study of primate predation, to guide methodological approaches, and to use in graduate-level courses."

—Beth A. Kaplin, *Ecology*

2007. 632 pages. 163 line illus. 21 tables.
Cl: 978-0-691-12178-9 \$75.00 | £55.00

Models for Ecological Data—Lab Manual

2007. 152 pages.
Pa: 978-0-691-12262-5 \$21.95 | £16.95



New

The Princeton Encyclopedia of Birds

Edited by Christopher Perrins

"A treasure. *The Princeton Encyclopedia of Birds* captures the full display of the birds of the world with wonderful illustrations and engaging prose. From the lavish birds-of-paradise to the stately seriemas, Christopher Perrins and his distinguished colleagues distill their expertise into a powerful work. Beware: one evening with this book could make quests to see exotic world birds your new travel priority."

—Frank B. Gill, author of *Ornithology*

The Princeton Encyclopedia of Birds is a comprehensive and lavishly illustrated reference to the world's birds. Accessibly written by renowned biologists and conservationists, and illustrated in color throughout, the book provides authoritative and systematic accounts of every bird family, covering form and function, distribution, diet, social behavior, breeding biology, and conservation and status. More than 1,000 superb color photos reveal the enormous diversity of birds in their natural habitats, from arctic tundra to tropical rain forest, and a wealth of beautifully detailed color and line illustrations depict representative species from each family and highlight characteristic behaviors. The main articles are complemented by detailed coverage of special topics, such as how ibises and spoonbills feed by touch, how pigeons find their way home, and how crows store food. And throughout the book, numerous "Factfile" panels with color distribution maps and scale drawings provide at-a-glance overviews of key data. *The Princeton Encyclopedia of Birds* is the definitive one-volume reference—an essential guide for amateur bird enthusiasts and professional ornithologists alike.

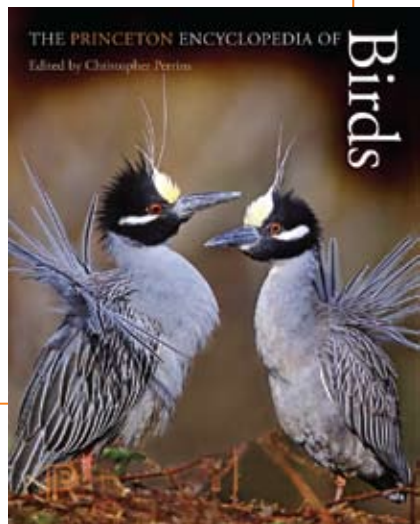
- Covers all the bird families of the world
- Describes form and function, distribution, diet, social behavior, breeding biology, and conservation and status
- Features more than 1,000 spectacular color photos and illustrations
- Includes "Factfile" panels with color distribution maps and scale drawings for at-a-glance reference
- Explores special topics in depth
- Written by leading biologists and conservationists

Christopher Perrins is a distinguished ornithologist, the author of many popular and scholarly books on birds, and a fellow of the Royal Society. A former professor of ornithology at the University of Oxford and former director of the Edward Grey Institute of Field Ornithology, he is currently a fellow of Wolfson College, Oxford.

2009. 656 pages. 1,186 color illus. 140 line illus. 182 color maps. 8 x 10.

Pa: 978-0-691-14070-4 \$35.00

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Forthcoming

Birds of North America

The Photographic Guides

Paul Sterry & Brian E. Small

Combining informative and accessible text, up-to-date maps, and—above all—stunning color photographs, these are the best and most lavishly illustrated photographic guides to the birds of Eastern and Western North America. All of the images have been carefully selected to convey both the sheer beauty and the key identification features of each bird, and many of the photos are larger than those found in many other guides. Whenever possible, a variety of plumages are pictured, providing visual coverage and usefulness matching any artwork-illustrated field guide. And many of the images are state-of-the-art digital photographs by Brian Small, one of North America's finest bird photographers. These pictures, many seen here for the first time, reproduce a previously unimaginable level of detail. Finally, the ranges of nearly all species are shown on maps from the Cornell Laboratory of Ornithology, the authority on North American birding. New and experienced birders alike will find this guide indispensable: the clear layout will help novices easily identify the birds they see, while the superb photographs will help seasoned birders confirm identifications.

- The best, most lavishly illustrated photographic guides to the regions' birds
- Larger color photos than most other field guides
- Fresh contemporary design—clear, easy-to-use, and attractive
- Informative, accessible, and authoritative text
- Highly accurate range maps from the Cornell Laboratory of Ornithology
- *Birds of Eastern North America* covers entire eastern half of mainland North America and the arctic and subarctic territorial islands of the United States and Canada
- *Birds of Western North America* covers entire western half of mainland North America (excluding Mexico) and the arctic and subarctic territorial islands of the United States and Canada (excluding Hawaii)

Paul Sterry is a highly regarded and bestselling wildlife author and photographer. He is the author or coauthor of more than 50 books. Brian E. Small is a leading nature photographer and author and the photo editor of *Birding* magazine.

Birds of Eastern North America

September 2009. 336 pages. 1,118 color illus. 405 maps. 5 1/2 x 8.

Pa: 978-0-691-13426-0 \$18.95 | £13.95

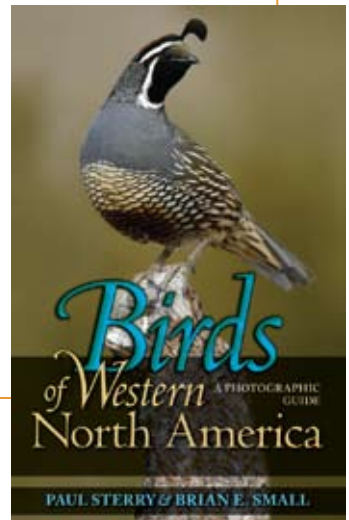
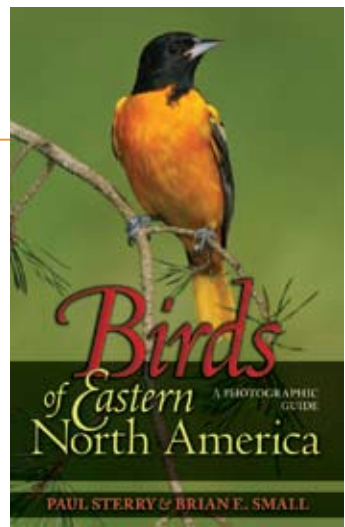
Cl: 978-0-691-13425-3 \$45.00 | £33.95

Birds of Western North America

September 2009. 416 pages. 1,341 color illus. 449 maps. 5 1/2 x 8.

Pa: 978-0-691-13428-4 \$18.95 | £13.95

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Lars Jonsson



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points of view, the well-written text achieves a balance so that readers may enjoy Lars's art on multiple levels."

—John Sill, wildlife artist

Lars Jonsson is an internationally renowned artist and ornithologist. He lives and paints on southern Gotland in Sweden.

2009. 192 pages. 150 color illus. 10 x 12.

Cl: 978-0-691-14151-0 \$55.00

Not for sale in the Commonwealth (except Canada) and the European Union

New

Palms of Southern Asia

Andrew Henderson



"This is a very well-organized field guide. It is clear in its presentation of the facts and the language is without unnecessary complications. The science behind this popular presentation is very sound."

—Henrik Balslev, University of Aarhus, Denmark

Andrew Henderson is a curator at the Institute of Systematic Botany at the New York Botanical Garden.

Princeton Field Guides

2008. 264 pages. 256 color illus. 16 line illus. 336 maps. 6 x 9.

Cl: 978-0-691-13449-9 \$90.00 | £67.00

Published in association with the New York Botanical Garden

New

The Princeton Encyclopedia of Mammals

Edited by David W. Macdonald



"The Princeton Encyclopedia of Mammals is a rare treasure that combines spectacular photographs and authoritative, easily accessible text describing the world's mammals, from aardvarks to zebras

and everything in between."

—Don E. Wilson, National Museum of Natural History

The Princeton Encyclopedia of Mammals is the most comprehensive and accessible reference book on mammals available. Unsurpassed in scope and stunningly illustrated, this book covers every known living species, from aardvarks to zorros. The informative and lively text is written by acclaimed researchers from around the world and features a concise general introduction to mammals followed by detailed accounts of species and groups that systematically describe form, distribution, behavior, status, conservation, and more. *The Princeton Encyclopedia of Mammals* is the definitive one-volume resource—a must-have reference book for naturalists and a delight for general readers.

- Covers every living mammal
- Describes form, distribution, behavior, status, conservation, and more
- Features spectacular full-color photos and illustrations on virtually every page
- Includes "Factfile" panels with color distribution maps and scale drawings for at-a-glance reference
- Written by an international team of experts

David W. Macdonald is director of the Wildlife Conservation Research Unit and a fellow of Lady Margaret Hall at the University of Oxford.

2009. 976 pages. 1,529 color illus. 163 line illus. 172 color maps. 8 x 10.

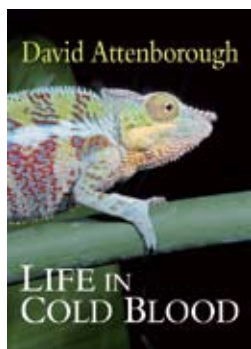
Pa: 978-0-691-14069-8 \$45.00

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David Attenborough

Life in Cold Blood



"David Attenborough shows us the lives of amphibians and reptiles in all the fascinating detail we have come to expect from him. A treasure trove for everyone."

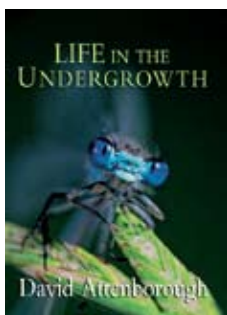
—Philip Rainbow,
Natural History
Museum, London

Life in Cold Blood offers a rare glimpse into the peculiar world of amphibians and reptiles, the first vertebrate creatures to venture forth from the primeval waters millions of years ago, yet which today include species that are the most at risk of extinction. Join acclaimed naturalist Sir David Attenborough as he travels to the far corners of the Earth to tell the epic story of these animals in this companion to the television series. Discover the secrets of their astounding success—and the profound implications of their uncertain future.

2008. 288 pages. 200 color illus. 7 x 10.
Cl: 978-0-691-13718-6 \$29.95
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Winner of the 2006 Best Book in Nature and Environment, National Outdoor Book Awards

Life in the Undergrowth



"With its superb synthesis of the majority of living species, *Life in the Undergrowth* is a high point in David Attenborough's career, but it is also an elegant restatement of something he has spent a lifetime trying to teach: we are simply one species

among a multitude, all of which are worthy of our interest and respect."

—Tim Flannery, *New York Review of Books*

2006. 288 pages. 275 color plates. 7 x 10.
Cl: 978-0-691-12703-3 \$29.95
For sale only in the U.S. and Canada

The Life of Mammals

"Heavily illustrated with beautiful photographs and enlivened by Attenborough's friendly, informative writing style, this is a terrific introduction to the wonders of our hairy, milk-producing relatives."

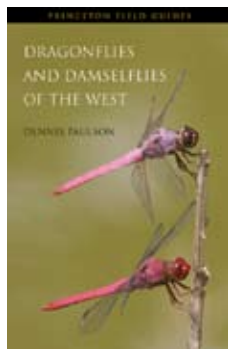
—*Booklist*

2002. 320 pages. 200 color illus. 7 x 10.
Cl: 978-0-691-11324-1 \$35.00
For sale only in the U.S. and Canada

New

Dragonflies and Damselflies of the West

Dennis Paulson



"Extremely well organized, and very well written. This is a superb treatment."

—Giff Beaton, author of *Dragonflies and Damselflies of Georgia and the Southeast*

Dennis Paulson's books include *Shorebirds of North America* (Princeton). Now retired, he was director of the Slater Museum of Natural History at the University of Puget Sound.

2009. 536 pages. 863 color photographs. 392 line illus. 12 tables. 348 maps. 5 1/2 x 8 1/2.

Pa: 978-0-691-12281-6 \$29.95 | £22.95
Cl: 978-0-691-12280-9 \$65.00 | £49.00

The Private Life of Spiders

Paul Hillyard

"A journey through the life of these often misunderstood and sometimes dangerous creatures. . . . This is a fascinating book."

—Joel Lerner, *Washington Post*

2008. 160 pages. 200 color illus.
9 1/2 x 12 1/2.
Cl: 978-0-691-13552-6 \$29.95
Not for sale in the Commonwealth (except Canada) and the European Union

Forthcoming
Second Edition

Birds of Europe

Lars Svensson, Dan Zetterström &
Killian Mullarney



Uniquely designed for easy use in the field, this updated and expanded edition covers all 722 species found in the region as well as 23 introduced species or variants and 103 very rare visitors.

Lars Svensson is one of Europe's foremost field ornithologists. Dan Zetterström and Killian Mullarney are two of Europe's leading bird artists.

Princeton Field Guides

September 2009. 416 pages. 5 x 7.

Pa: 978-0-691-14392-7 \$29.95

For sale only in the U.S., Canada, and Mexico

New

Mammals of India

Vivek Menon



"With superior visuals, informative text, and sound scholarship throughout, *Mammals of India* is beyond compare. This is an exceptional little book."
—Andrew T. Smith, coeditor of *A Guide to the Mammals of China*

Vivek Menon is executive director of the Wildlife Trust of India.

Princeton Field Guides

June 2009. 208 pages. 350 color illus. 85 color maps. 5 1/2 x 8 1/2.

Pa: 978-0-691-14067-4 \$35.00

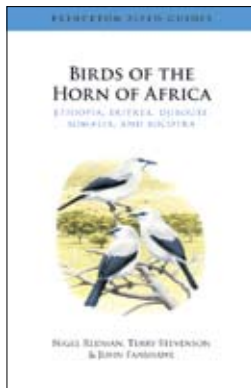
Not for sale in the Commonwealth (except Canada) and the European Union

New

Birds of the Horn of Africa

Ethiopia, Eritrea, Djibouti, Somalia,
and Socotra

Nigel Redman, Terry Stevenson &
John Fanshawe



Birds of the Horn of Africa is the first field guide to the more than 1,000 species of resident, migrant, and vagrant birds found in northeast Africa. Covering Ethiopia, Eritrea, Djibouti, Somalia, and the Socotra archipelago, this comprehensive,

easy-to-use guide features more than 2,600 illustrations on 213 full-color plates, and a color distribution map for every species. Detailed species accounts on facing pages include descriptions of key identification features, similar species, geographical variation, habitat, status, and voice. This field-ready guide also includes a glossary, identification tips, and information about bird habitats. *Birds of the Horn of Africa* is an essential resource for birders, naturalists, and travelers in the region.

- Covers more than 1,000 species, including all resident, migrant, and vagrant birds
- Detailed species accounts on facing pages describe key identification features, habitat, status, voice, and more
- Provides a color distribution map for every species

Nigel Redman is a publisher and bird tour leader who has visited Africa many times. Terry Stevenson and John Fanshawe are the authors of *Birds of East Africa* (Princeton) and have many years of experience leading bird tours and conducting conservation work in Africa.

Princeton Field Guides

2009. 488 pages. 213 color plates. 1,000 maps. 5 1/2 x 8 1/2

Pa: 978-0-691-14345-3 \$40.00

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Finalist, 2005 Colorado Book Awards, Colorado Endowment for the Humanities

Garden Insects of North America

The Ultimate Guide to Backyard Bugs
Whitney Cranshaw

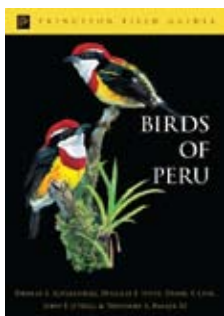
"If you've ever wondered what's eating your garden besides yourself and the woodchuck, this is the book for you."

—*New York Times Book Review*

"[T]he best reference I have read for diagnosing virtually all insect problems. It will make you the neighborhood entomologist."

—*Washington Post*

2004. 672 pages. 265 color plates. 7 1/2 x 10.
Pa: 978-0-691-09561-5 \$29.95 | £22.95



Winner of the 2006 Best Nature Guidebook, National Outdoor Book Awards

Caterpillars of Eastern North America

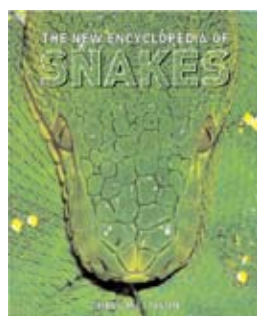
A Guide to Identification and Natural History
David L. Wagner

"A lusciously photographed book generally regarded as the most comprehensive field guide ever to caterpillars, as opposed to their better-documented adult forms—moths and butterflies.... In the book, the fruit of a decade's research, Dr. Wagner ... argues passionately that creeping things can be every bit as mesmerizing and transporting as those that flit and dart in the air."

—*Andy Newman, New York Times*

Princeton Field Guides

2005. 512 pages. 850 color photos. 12 line illus. 5 x 8.
Pa: 978-0-691-12144-4 \$29.95 | £22.95



Winner of the 2008 Best Book in Nature and Environment, National Outdoor Book Awards

With a foreword by Dr. Antonio Brack Egg

Birds of Peru

Thomas S. Schulenberg, Douglas F. Stotz, Daniel F. Lane, John P. O'Neill & Theodore A. Parker III

"[T]he culmination of an incredible amount of fieldwork."

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Nearly eighteen hundred different bird species—one fifth of the world's birds—have been recorded in Peru. *Birds of Peru* is the most complete and well-researched field guide to this rich and fascinating diversity.

Princeton Field Guides

2007. 656 pages. 304 color plates. 1,805 maps. 6 x 8.
Cl: 978-0-691-04915-1 \$49.50

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The New Encyclopedia of Snakes

Chris Mattison

"*The New Encyclopedia of Snakes* is a must-have.... Mattison's work is a breathtaking wonder. How he managed to fill 271 pages with reams of scientific and plain entertaining information, then added 200 beautiful photographs that deal with every snake on this planet, is simply astonishing."

—*Gene Muller, Washington Times*

Comprehensive, up-to-date, and richly illustrated, *The New Encyclopedia of Snakes* is the best single-volume reference on snakes.

2007. 272 pages. 200 color plates. 8 1/2 x 11.
Cl: 978-0-691-13295-2 \$35.00

For sale only in the U.S., Canada, and the Philippines

New

Shorebirds of North America, Europe, and Asia

A Photographic Guide

Richard Chandler



Shorebirds are prized among birders for their stunning plumages, evocative calls and songs, extensive migration patterns, and the unique challenges they pose for identification. *Shorebirds of North America, Europe, and Asia* is an illustrated guide to all 134 shore-

bird species found in the Northern Hemisphere, written by one of the world's leading shorebird experts. It features more than 850 stunning color photographs and a color distribution map for every species. Detailed species accounts describe key identification features, age and sex differences, variations in plumage, similar species, status, habitat, and distribution. This easy-to-use guide also includes comprehensive primers on plumage patterns and terminology, molting, feeding and other behaviors, and much more. This premier illustrated guide is suitable for field use and a must-have for armchair naturalists.

- Covers all 134 shorebird species found in the Northern Hemisphere
- Features more than 850 color photographs that make identification easy
- Includes detailed species accounts that describe key identification features, status, habitat, distribution, and more
- Provides a full-color distribution map for every species

Richard Chandler is a renowned shorebird specialist and photographer and a longtime editorial board member for *British Birds* magazine.

2009. 448 pages. 850 color illus. 134 color maps. 6 x 9.

Pa: 978-0-691-14281-4 \$35.00

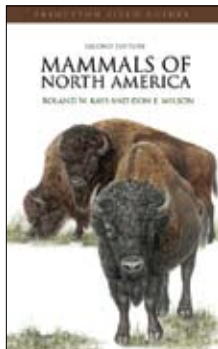
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Forthcoming

Mammals of North America

Second Edition

Roland W. Kays & Don E. Wilson



Praise for the First Edition:

"[W]ill be welcomed by amateur naturalists and field biologists."

—*Science*

The bestselling field guide that "sets new standards" (*New Scientist*) and "makes all other

field guides for mammals of the United States... and Canada obsolete" (*Journal of Mammalogy*) is now even better. With a more up-to-date species list than any other guide, improved facing-page descriptions, easier-to-read distribution maps, updated common and scientific names, and track and scat illustrations, this slim, light, and easy-to-use volume is the must-have source for identifying North American mammals.

- The best-illustrated and easiest-to-use field guide to North American mammals
- Beautiful and accurate color illustrations of all 462 mammals found in the United States and Canada—including 20 species recognized since 2002
- 112 color plates—including 13 new ones
- Key identification information—fully revised—on facing pages
- The most current taxonomy/species list
- Fully revised, easy-to-read range maps
- Illustrations of tracks, scat, and whale and dolphin dive sequences

Roland W. Kays is the curator of mammals at the New York State Museum. Don E. Wilson is a senior scientist at the Smithsonian Institution's National Museum of Natural History.

Princeton Field Guides

November 2009. 248 pages. 112 color illus. 102 line illus. 460 maps. 5 x 8.

Pa: 978-0-691-14092-6 \$19.95 | £14.95

Cl: 978-0-691-14278-4 \$45.00 | £33.95

A Guide to the Mammals of Southeast Asia

Charles M. Francis

Illustrated by Priscilla Barrett, Robin Budden, John Cox, Sandra Doyle, Brin Edwards, Ray Hutchings, William Oliver, Guy Troughton & Lyn Wells

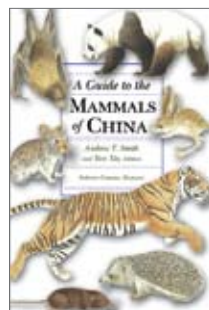
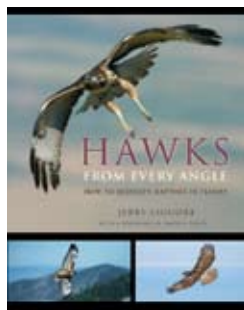
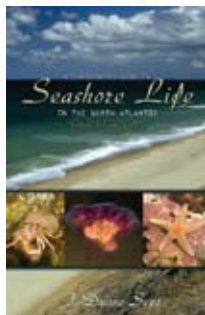
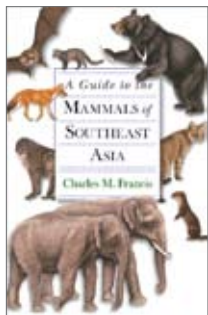
"This book is an important and long-awaited resource to anyone interested in the region's spectacular mammal diversity."

—Darrin Lunde, American Museum of Natural History

This richly illustrated field guide is the most comprehensive reference to all mammals currently known to exist in mainland Southeast Asia.

2008. 392 pages. 72 color plates. 74 line illus. 422 maps. 6 x 9.
Cl: 978-0-691-13551-9 \$55.00

Not for sale in the Commonwealth (except Canada) and the European Union



With a foreword by David A. Sibley

Hawks from Every Angle

How to Identify Raptors In Flight

Jerry Liguori

"*Hawks from Every Angle* is a major advance in our knowledge of identifying raptors in flight and as such needs to be in the library (and field pack) of every serious raptor biologist, hawk watcher, and birder going afield in North America."

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2005. 144 pages. 339 color photos. 32 b/w photos. 2 maps. 7 1/2 x 9 1/2.
Pa: 978-0-691-11825-3 \$19.95 | £14.95

A Photographic Guide to Seashore Life in the North Atlantic

Canada to Cape Cod

J. Duane Sept

"A worthwhile addition to the library of anyone who is interested in marine life or who spends time walking shorelines."

—Wayne R. Petersen, author of *Birds of New England* and *Birds of Massachusetts*

This field guide makes it easier than ever to identify Atlantic seashore life from Canada to Cape Cod.

2008. 224 pages. 300 color illus. 5 1/2 x 8 1/2.
Pa: 978-0-691-13319-5 \$19.95 | £14.95

A Guide to the Mammals of China

Edited by Andrew T. Smith & Yan Xie

And Robert S. Hoffmann, Darrin Lunde, John MacKinnon, Don E. Wilson &

W. Chris Wozencraft

Illustrated by Federico Gemma

"This is destined to be a landmark book on Asian mammals."

—Bruce D. Patterson, Field Museum of Natural History

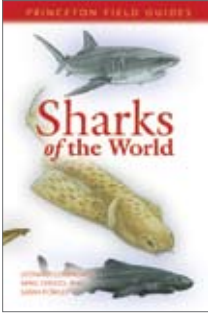
A Guide to the Mammals of China is the most comprehensive guide to all 556 species of mammals found in China. It is the ideal reference for researchers.

2008. 576 pages. 83 color illus. 572 maps. 6 x 9.
Cl: 978-0-691-09984-2 \$60.00 | £45.00

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Sharks of the World

Leonard Compagno, Marc Dando & Sarah Fowler



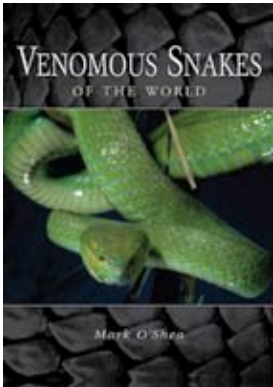
"You don't need to be a shark fan for *Sharks of the World* to be a useful addition to your library: this is one book I'd recommend to any diver or naturalist any day."
—Virginia Cowell, *Diver Magazine*

Princeton Field Guides

2005. 480 pages. 128 color plates. 500 line illus. 500 maps. 5 x 7.
Pa: 978-0-691-12072-0 \$29.95
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Venomous Snakes of the World

Mark O'Shea



In this comprehensive volume, author Mark O'Shea has combined expertly written, in-depth descriptions of the world's common and exotic venomous snakes.

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\$29.95

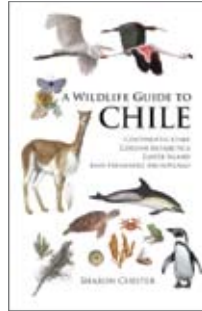
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A Wildlife Guide to Chile

Continental Chile, Chilean Antarctica, Easter Island, Juan Fernández Archipelago

Sharon Chester



"In a single, portable volume, Sharon Chester presents nearly every natural gem that Chile has to offer."

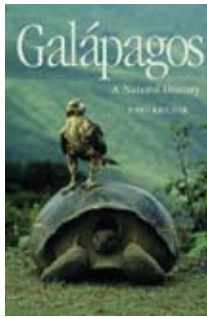
—Edward S. Brinkley, editor in chief of *North American Birds*

This is an essential guide to Chile's remarkable biodiversity.

2008. 400 pages. 120 color plates. 21 maps. 5 1/2 x 8 1/2.
Pa: 978-0-691-12976-1 \$19.95
Cl: 978-0-691-12975-4 \$45.00

Not for sale in the Commonwealth (except Canada) and the European Union

Galápagos A Natural History John Kricher



"This is an excellent book for the many ecotourists visiting the Galápagos who want an intelligent and stimulating account of the islands and their animals and plants. It is written in a clear, accessible, interesting, and yet scholarly style."

—Peter R. Grant, Princeton University

2006. 256 pages. 50 color plates. 33 halftones. 2 tables. 6 x 9.
Pa: 978-0-691-12633-3 \$21.95 | £16.95

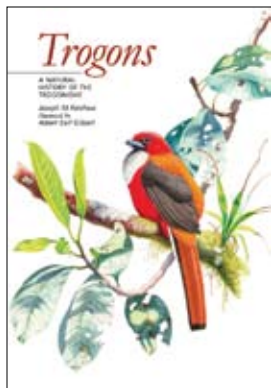
Forthcoming

Trogons

A Natural History of the Trogonidae

Joseph M. Forshaw

Illustrated by Albert Earl Gilbert



“This is a major work for bird art lovers of all temperaments.”
—Guy Tudor, coauthor and illustrator of *Birds of South America*

A collaboration between renowned ornithologist Joseph Forshaw

and eminent bird artist Albert Gilbert, *Trogons* combines science and art to create an unprecedented picture of a threatened bird family. With its large format, more than 40 full-color plates, and state-of-the-art five-color printing, this limited-edition book promises to become a classic and a collector’s item.

Joseph M. Forshaw is one of Australia’s leading ornithologists and the author of many acclaimed books.

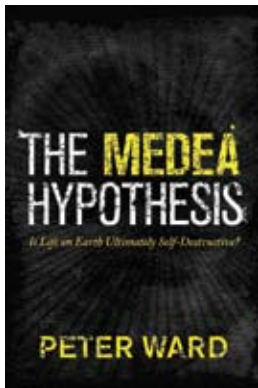
September 2009. 304 pages. 75 color illus. 10 line illus. 11 x 16.
Cl: 978-0-691-14158-9 \$150.00
Not for sale in the European Union

New

The Medea Hypothesis

Is Life on Earth Ultimately Self-Destructive?

Peter Ward



“A provocative look at the history of our living planet.”
—Thomas E. Lovejoy, H. John Heinz III Center for Science, Economics, and the Environment

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.

Peter Ward is professor of biology and earth and space sciences at the University of Washington, and an astrobiologist with NASA.

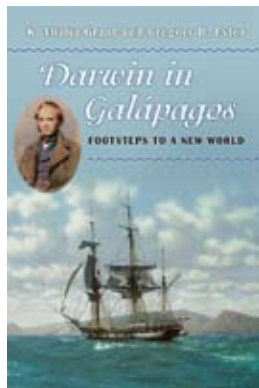
Science Essentials
2009. 208 pages. 11 line illus. 2 tables.
Cl: 978-0-691-13075-0 \$24.95 | £18.95

Forthcoming

Darwin in Galápagos

Footsteps to a New World

K. Thalia Grant & Gregory B. Estes



“This is an engaging tour of Darwin’s explorations on Galápagos. This book provides the best description yet of Darwin’s trip through the islands.”
—Edward J. Larson, author of *Evolution: The Remarkable History of a Scientific Theory*

In 1835 during his voyage on *HMS Beagle*, Charles Darwin spent several weeks in Galápagos exploring the islands and making extensive notes on their natural history. *Darwin in Galápagos* is the first book to recreate Darwin’s historic visit to the islands, following in his footsteps day by day and island by island as he records all that he observes around him.

K. Thalia Grant is a naturalist with extensive knowledge of Darwin and Galápagos. Gregory B. Estes has worked as a naturalist in Galápagos since 1982, leading island trips, lecturing on Darwin, and conducting research.

December 2009. 416 pages. 122 color illus. 73 halftones. 20 line illus. 4 maps.
Cl: 978-0-691-14210-4 \$29.95 | £22.95

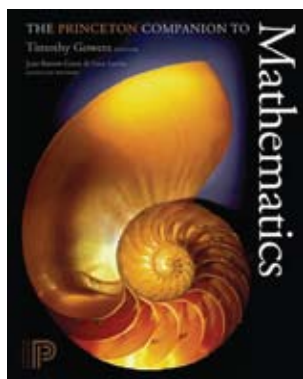
New

Honorable Mention, 2008 PROSE Award for Excellence in Single-Volume Reference/Science Association of American Publishers

The Princeton Companion to Mathematics

Edited by Timothy Gowers

June Barrow-Green & Imre Leader, associate editors



"I'm completely charmed. This is one of those books that makes you wish you had a desert island to be marooned on."

—Brian Hayes, *bit-player.org*

"This is a won-

derful book. The content is overwhelming. Every practicing mathematician, everyone who uses mathematics, and everyone who is interested in mathematics must have a copy of their own."

—Simon A. Levin, Princeton University

Unparalleled in its depth of coverage, *The Princeton Companion to Mathematics* surveys the most active and exciting branches of pure mathematics, providing the context and broad perspective that are vital at a time of increasing specialization in the field. Packed with information and presented in an accessible style, this is an indispensable resource for undergraduate and graduate students in mathematics as well as for researchers and scholars seeking to understand areas outside their specialties.

Timothy Gowers is the Rouse Ball Professor of Mathematics at the University of Cambridge.

2008. 1056 pages. 20 halftones. 160 line illus.

Cl: 978-0-691-11880-2 \$99.00 | £74.00

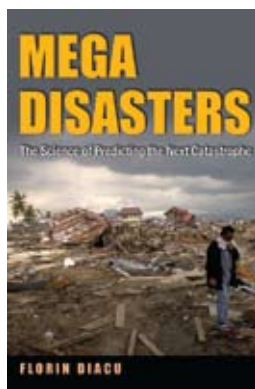
For more information, visit our website at: press.princeton.edu/titles/8350.html

Forthcoming

Megadisasters

The Science of Predicting the Next Catastrophe

Florin Diacu



"*Megadisasters* tracks the history of our development of knowledge about sudden catastrophes. The book is well conceived and written with considerable clarity. Diacu does a nice job of showing what is predictable and what isn't."

—William F. Ruddiman, author of *Plows, Plagues, and Petroleum: How Humans Took Control of Climate*

Can we predict cataclysmic disasters such as earthquakes, volcanic eruptions, or stock market crashes? The Indian Ocean tsunami of 2004 claimed more than 200,000 lives. Hurricane Katrina killed over 1,800 people and devastated the city of New Orleans. The recent global financial crisis has cost billions of dollars in losses for corporations and ordinary people around the world. *Megadisasters* is a book that asks why catastrophes such as these catch us by surprise, and reveals the history and groundbreaking science behind efforts to forecast major disasters and minimize their destruction.

Florin Diacu is professor of mathematics and former director of the Pacific Institute for the Mathematical Sciences at the University of Victoria in Canada.

December 2009. 240 pages. 4 halftones. 8 line illus.

Cl: 978-0-691-13350-8 \$24.95

For sale only in the U.S., Canada, and Mexico

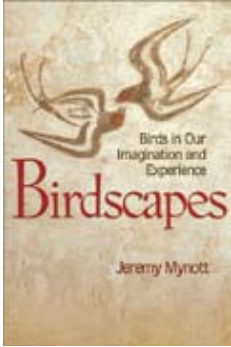
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New

Birdscapes

Birds in Our Imagination and Experience

Jeremy Mynott



“An astonishing compendium brimming over with bird lore and theory.”

—Peter Matthiessen

What draws us to the beauty of a peacock, the flight of an eagle, or the song of a nightingale? Why are birds so significant in

our lives and our sense of the world? *Birdscapes* is a unique meditation on the variety of human responses to birds, from antiquity to today, and from casual observers to the globe-trotting “twitchers” who sometimes risk life, limb, and marriages simply to add new species to their “life lists.”

Jeremy Mynott is the former chief executive of Cambridge University Press.

2009. 392 pages. 8 color illus. 32 halftones. 25 line illus.
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Jan Goldstein is the Norman and Edna Freehling Professor of History at the University of Chicago.

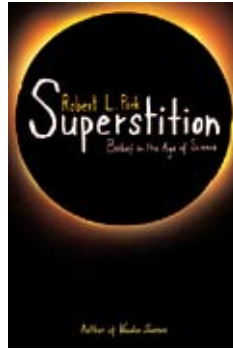
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Robert L. Park is professor of physics at the University of Maryland.

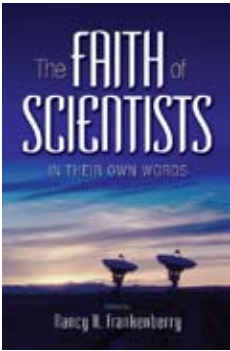
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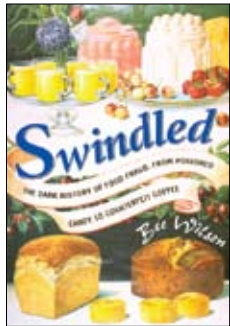
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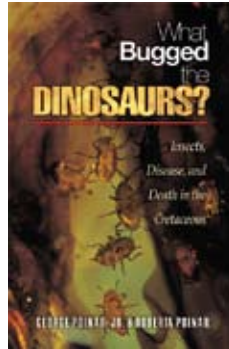
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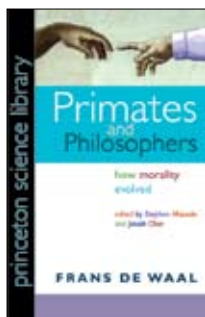
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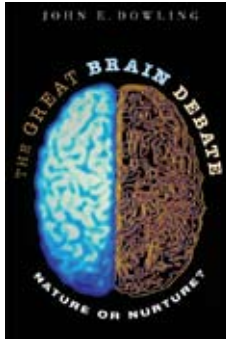
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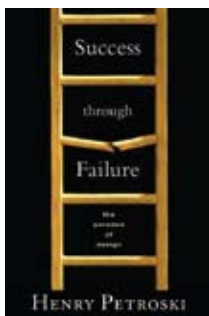
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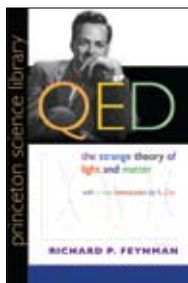
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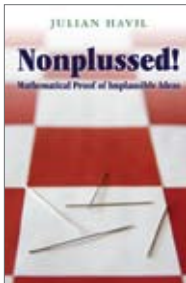
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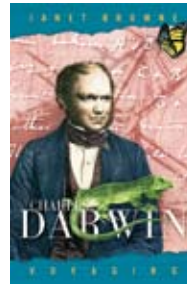
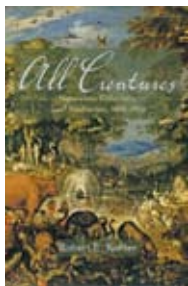
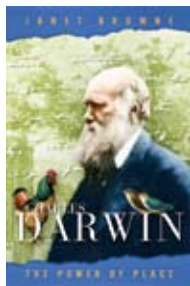
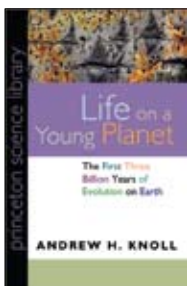
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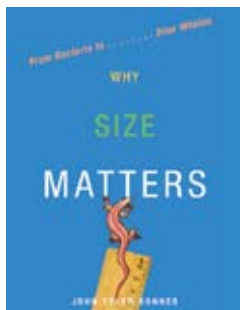


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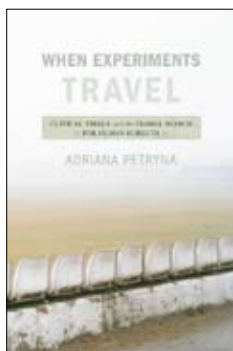
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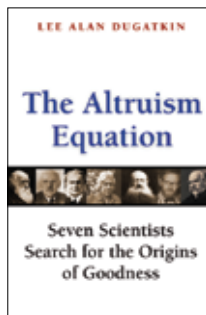
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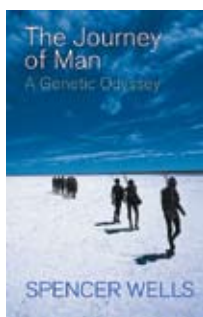
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