

Biology
2019-2020



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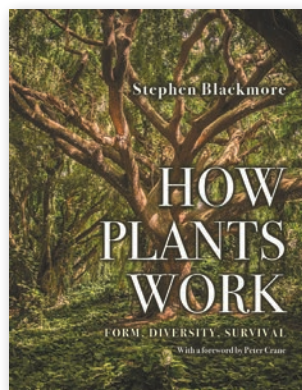
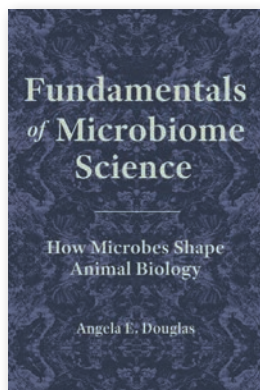
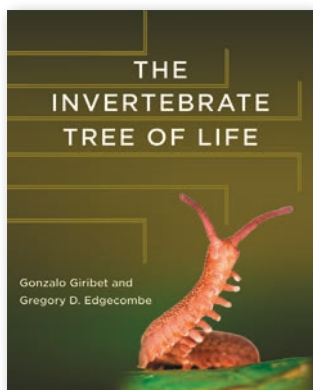
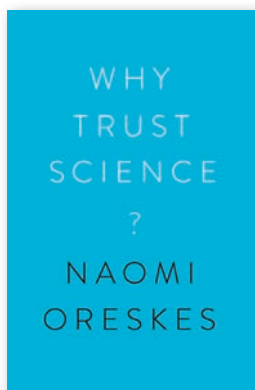
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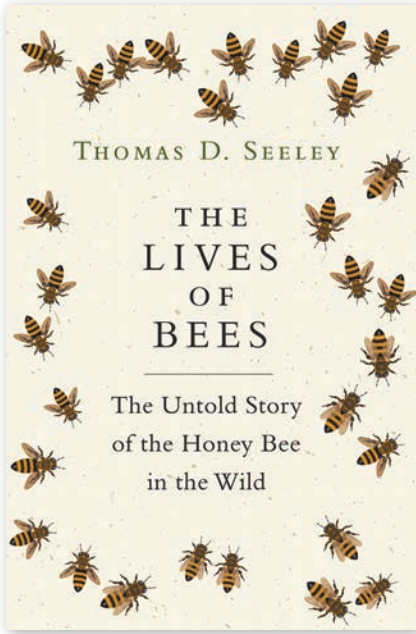
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Cover image: Female *Hesperapis rhodocera* (Melittidae) visiting a flower of *Bahia absinthifolia* (Asteraceae), Willcox, AZ. Courtesy of Bryan N. Danforth, Robert L. Minckley, and John L. Neff, authors of *The Solitary Bees* (page 3).



“Thomas Seeley is the great detective of the bee world, unearthing clues that make this fascinating creature even more compelling. This is science at its most congenial!”
—Bill McKibben, author of *Falter: Has the Human Game Begun to Play Itself Out?*

“*The Lives of Bees* is an absorbing, meticulous, and important book, exploring an unseen corner of the natural world.”
—Hannah Nordhaus, author of *The Beekeeper’s Lament*

“This remarkable book eloquently explains how to be a better partner with honey bees, using nature as a guide.”
—Kim Flottum, editor of *Bee Culture* magazine

The Lives of Bees

How the lives of wild honey bees offer vital lessons for saving the world’s managed bee colonies

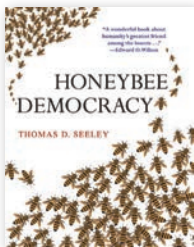
Humans have kept honey bees in hives for millennia, yet only in recent decades have biologists begun to investigate how these industrious insects live in the wild. *The Lives of Bees* is Thomas Seeley’s captivating story of what scientists are learning about the behavior, social life, and survival strategies of honey bees living outside the beekeeper’s hive—and how wild honey bees may hold the key to reversing the alarming die-off of the planet’s managed honey bee populations.

Seeley, a world authority on honey bees, sheds light on why wild honey bees are still thriving while those living in managed colonies are in crisis. Drawing on the latest science as well as insights from his own pioneering fieldwork, he describes in extraordinary detail how honey bees live in nature and shows how this differs significantly from their lives under the management of beekeepers. Seeley presents an entirely new approach to beekeeping—Darwinian Beekeeping—which enables honey bees to use the toolkit of survival skills their species has acquired over the past thirty million years, and to evolve solutions to the new challenges they face today. He shows beekeepers how to use the principles of natural selection to guide their practices, and he offers a new vision of how beekeeping can better align with the natural habits of honey bees.

Engagingly written and deeply personal, *The Lives of Bees* reveals how we can become better custodians of honey bees and make use of their resources in ways that enrich their lives as well as our own.

THOMAS D. SEELEY is the Horace White Professor in Biology at Cornell University. He is the author of *Following the Wild Bees*, *Honeybee Democracy*, and *Honeybee Ecology* (all Princeton) as well as *The Wisdom of the Hive*.

2019. 376 pages. 72 color + 38 b/w illus.
Hardback 9780691166766 \$29.95 | £24.00
E-book 9780691189383 Audiobook 9780691193519

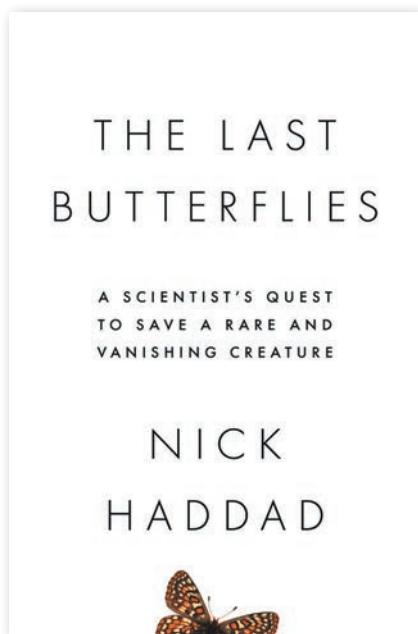


Following the Wild Bees

2019. 184 pages. 55 color + 1 b/w illus.
Paperback 9780691191409 \$16.95 | £13.99
E-book 9780691191249

Honeybee Democracy

2010. 280 pages. 30 color + 56 b/w illus. 1 table.
Hardback 9780691147215 \$29.95 | £24.00
E-book 9781400835959
A Financial Times Book of the Year



2019. 264 pages. 16 color + 7 b/w illus.
 Hardback 9780691165004 \$24.95 | £20.00
 E-book 9780691189628

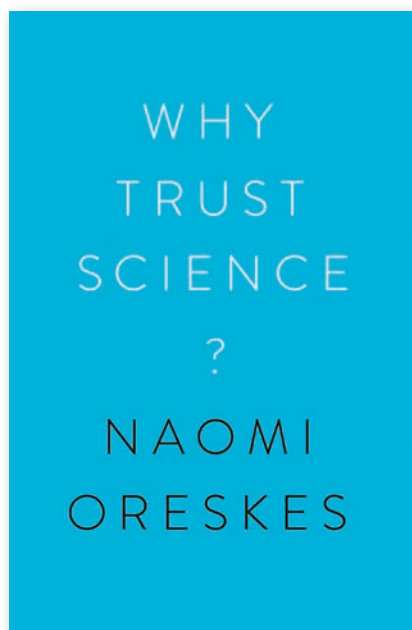
“The Last Butterflies tells the story of six rare insects and the specific challenges they face. But its lessons are broader than that. The book offers case studies in how conservation efforts can succeed and—just as significantly—how they can fail.”

*—Elizabeth Kolbert, author of *The Sixth Extinction: An Unnatural History**

The Last Butterflies

Most of us have heard of such popular butterflies as the Monarch or Painted Lady. But what about the Fender’s Blue? Or the St. Francis’ Satyr? Because of their extreme rarity, these butterflies are not well-known, yet they are remarkable species with important lessons to teach us. A moving account of extinction, recovery, and hope, *The Last Butterflies* demonstrates the great value of these beautiful insects to science, conservation, and people.

NICK HADDAD is a professor and senior terrestrial ecologist in the Department of Integrative Biology and the W. K. Kellogg Biological Station at Michigan State University.



October 2019. 352 pages. 2 b/w illus. 1 table.
 Hardback 9780691179001 \$24.95 | £20.00
 E-book 9780691189932 Audiobook 9780691199139
 The University Center for Human Values Series

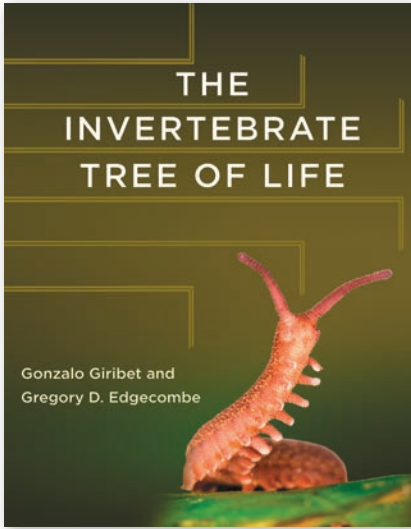
“This comprehensive and thoughtful book explores the thorny questions we often take for granted regarding why, when, and how we can—or can’t—trust science. In a post-truth world, this is the book we need.”

*—Katharine Hayhoe, Texas Tech University, coauthor of *A Climate for Change**

Why Trust Science?

Do doctors really know what they are talking about when they tell us vaccines are safe? Should we take climate experts at their word when they warn us about the perils of global warming? Why should we trust science when our own politicians don’t? In this landmark book, Naomi Oreskes offers a bold and compelling defense of science, revealing why the social character of scientific knowledge is its greatest strength—and the greatest reason we can trust it.

NAOMI ORESKES is professor of the history of science and affiliated professor of Earth and planetary sciences at Harvard University. Her books include *The Collapse of Western Civilization* and *Merchants of Doubt*.



March 2020. 680 pages. 45 color + 61 b/w illus.
Hardback 9780691170251 \$85.00 | £66.00
E-book 9780691197067

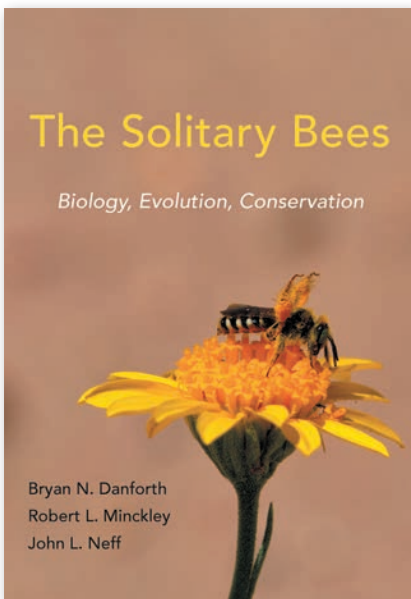
“An astounding synthesis of a field that has grown at an exponential rate, *The Invertebrate Tree of Life* ... represents an achievement of incredible magnitude.”

—Vicki Buchsbaum Pearse, founding editor of *Invertebrate Biology*

The Invertebrate Tree of Life

In *The Invertebrate Tree of Life*, Gonzalo Giribet and Gregory Edgecombe, leading authorities on invertebrate biology and paleontology, utilize phylogenetics to trace the evolution of animals from their origins in the Proterozoic to today. Phylogenetic relationships between and within the major animal groups are based on the latest molecular analyses, which are increasingly genomic in scale and draw on the soundest methods of tree reconstruction. It is a must-have reference for biologists and anyone interested in invertebrates, and will be an ideal text for courses in invertebrate biology.

GONZALO GIRIBET is Alexander Agassiz Professor of Zoology in the Museum of Comparative Zoology and professor of organismic and evolutionary biology at Harvard University. **GREGORY D. EDGECOMBE** is Merit Researcher at the Natural History Museum, London.



August 2019. 488 pages. 17 color + 113 b/w illus.
Hardback 9780691168982 \$45.00 | £35.00
E-book 9780691189321

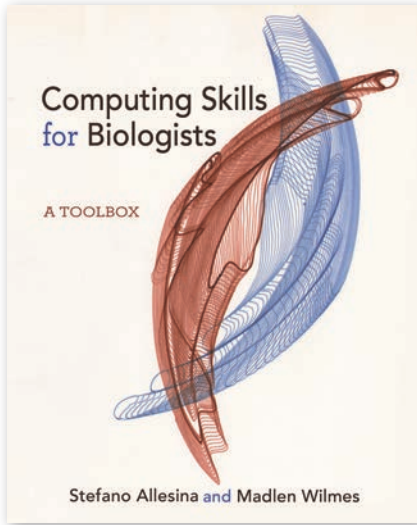
“This book will inspire a new generation of scientists to focus their passion on studying these species while helping all of us better appreciate the amazing bees in our backyards, farms, and parks.”

—Christina M. Grozinger, Pennsylvania State University

The Solitary Bees

While social bees such as honey bees and bumble bees are familiar to most people, they comprise less than 10 percent of all bee species in the world. The vast majority of bees lead solitary lives, surviving without the help of a hive and using their own resources to fend off danger and protect their offspring. This book draws on new research to provide a comprehensive and authoritative overview of solitary bee biology, offering an unparalleled look at these remarkable insects.

BRYAN N. DANFORTH is professor of entomology at Cornell University. **ROBERT L. MINCKLEY** is senior lecturer in biology at the University of Rochester. **JOHN L. NEFF** is director of the Central Texas Melittological Institute.



2019. 440 pages. 7 b/w illus.
Paperback 9780691182759 \$45.00 | £35.00
E-book 9780691183961

“Pitched perfectly for the beginning student and ... a useful reference for the rest of us. ... An excellent starting point for anyone about to step off into the world of computational biology.”

—Dr David Martin and Laura Pugh, *The Biologist*

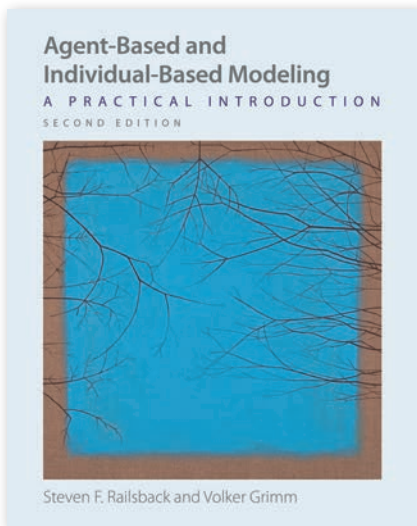
“I admire this book’s depth and breadth of coverage.”

—Matthew Gitzendanner, University of Florida

Computing Skills for Biologists

While biological data continues to grow exponentially in size and quality, many of today’s biologists are not trained adequately in the computing skills necessary for leveraging this information deluge. In *Computing Skills for Biologists*, Stefano Allesina and Madlen Wilmes present a valuable toolbox for the effective analysis of biological data.

STEFANO ALLESINA is a professor in the Department of Ecology and Evolution at the University of Chicago and a deputy editor of *PLoS Computational Biology*. **MADLEN WILMES** is a data scientist and web developer.



2019. 360 pages. 60 b/w illus. 9 tables.
Paperback 9780691190839 \$59.95 | £47.00
E-book 9780691190044

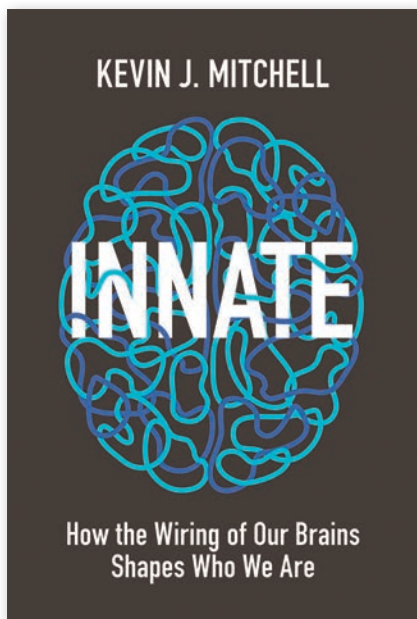
“The book is not only a practical guide but also serves as a good introduction to the basics of ‘healthy’ programming. These authors are the right ones to do this.”

—*Basic and Applied Ecology*

Agent-Based and Individual-Based Modeling, Second Edition

Agent-Based and Individual-Based Modeling has become the standard textbook on the subject for classroom use and self-instruction. Drawing on the latest version of NetLogo and fully updated with new examples, exercises, and an enhanced text for easier comprehension, this is the essential resource for anyone seeking to understand how the dynamics of biological, social, and other complex systems arise from the characteristics of the agents that make up these systems.

STEVEN F. RAILSBACK is adjunct professor of mathematics at Humboldt State University and a consulting environmental scientist. **VOLKER GRIMM** is senior scientist in the Department of Ecological Modeling at the Helmholtz Centre for Environmental Research – UFZ in Leipzig and professor of theoretical ecology at the University of Potsdam.



2018. 304 pages, 40 b/w illus.
 Hardback 9780691173887 \$29.95 | £24.00
 E-book 9780691184999

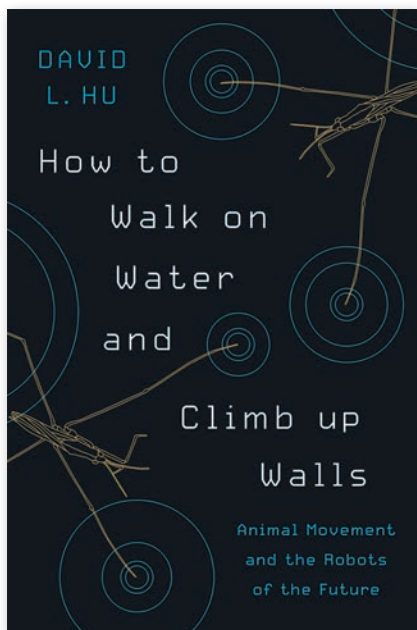
“If there’s any question you have about how our brains make us who we are, chances are you’ll find an enlightening answer in *Innate*.”

—Carl Zimmer, *Publishers Weekly*

Innate

What makes you the way you are—and what makes each of us different from everyone else? In *Innate*, leading neuroscientist and popular science blogger Kevin Mitchell traces human diversity and individual differences to their deepest level: in the wiring of our brains. Deftly guiding us through important new research, including his own groundbreaking work, he explains how variations in the way our brains develop before birth strongly influence our psychology and behavior throughout our lives, shaping our personality, intelligence, sexuality, and even the way we perceive the world.

KEVIN J. MITCHELL is associate professor at the Smurfit Institute of Genetics and the Institute of Neuroscience at Trinity College Dublin.



2018. 240 pages, 12 color + 33 b/w illus.
 Hardback 9780691169866 \$24.95 | £20.00
 E-book 9780691184081

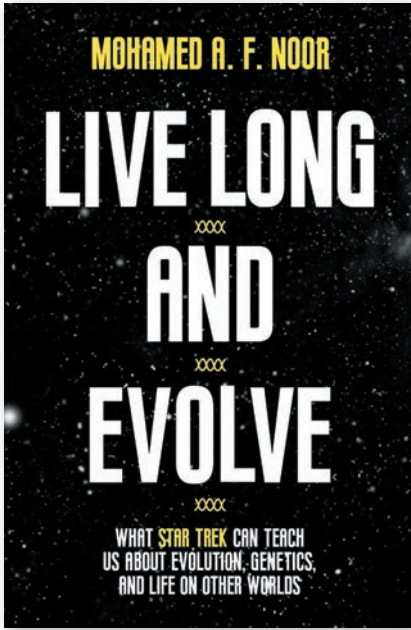
“Hu masterfully explains scientific revelations such as how insects walk on water, snakes slither and mosquitos survive rainstorms using rich tales of discovery and analogies that brim with satisfying ‘aha’ moments.”

—Natalie Parletta, *Cosmos*

How to Walk on Water and Climb up Walls

Insects walk on water, snakes slither, and fish swim. Animals move with astounding grace, speed, and versatility: how do they do it, and what can we learn from them? In *How to Walk on Water and Climb up Walls*, David Hu takes readers on an accessible, wondrous journey into the world of animal motion. From basement labs at MIT to the rain forests of Panama, Hu shows how animals have adapted and evolved to traverse their environments, taking advantage of physical laws with results that are startling and ingenious. In turn, the latest discoveries about animal mechanics are inspiring scientists to invent robots and devices that move with similar elegance and efficiency.

DAVID L. HU is associate professor of mechanical engineering and biology and adjunct professor of physics at Georgia Institute of Technology.



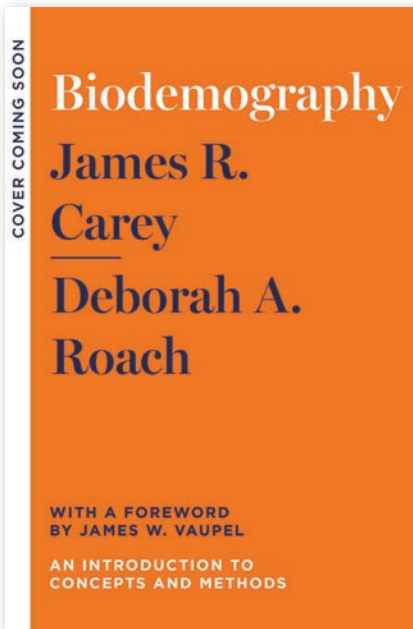
2018. 208 pages. 10 b/w illus.
Hardback 9780691177410 \$24.95 | £20.00
E-book 9780691184111

“With a light, accessible style, [Noor] juxtaposes *Star Trek* scenarios with near-alien examples of life on Earth... Noor wants his readers to understand that science, like fiction, is rife with intrigue.”
—Erin Zimmerman, *Los Angeles Review of Books*

Live Long and Evolve

In *Star Trek*, crew members travel to unusual planets, meet diverse beings, and encounter unique civilizations. Throughout these remarkable space adventures, does *Star Trek* reflect biology and evolution as we know it? What can the science in the science fiction of *Star Trek* teach us? In *Live Long and Evolve*, biologist and die-hard Trekkie Mohamed Noor takes readers on a fun, fact-filled scientific journey.

MOHAMED A. F. NOOR, besides being a Trekkie, is a professor in the Biology Department at Duke University. He is the editor in chief of the journal *Evolution* and author of *You're Hired! Now What?: A Guide for New Science Faculty*.



January 2020. 472 pages. 164 b/w illus. 98 tables.
Hardback 9780691129006 \$60.00 | £47.00
E-book 9780691186054

“A novel introduction to formal demography for biologists.”
—Johan Dahlgren, University of Southern Denmark

Biodemography

This book provides a comprehensive introduction to biodemography, an exciting interdisciplinary field that unites the natural science of biology with the social science of human demography. *Biodemography* is an essential resource for demographers, epidemiologists, gerontologists, and health professionals as well as ecologists, population biologists, entomologists, and conservation biologists. This accessible and innovative book is also ideal for the classroom.

JAMES R. CAREY is Distinguished Professor of Entomology at the University of California, Davis, and Senior Scholar at the Center on the Economics and Demography of Aging at the University of California, Berkeley. **DEBORAH A. ROACH** is Professor of Biology at the University of Virginia.



October 2019. 200 pages. 51 b/w illus.
 Hardback 9780691194721 \$16.95 | £9.99
 E-book 9780691195384

“With whimsy, wisdom, and deep knowledge, abetted by Amy Porter’s thoroughly charming drawings, Lawrence Millman has conjured the most interesting, readable, and useful fungus book ever.”

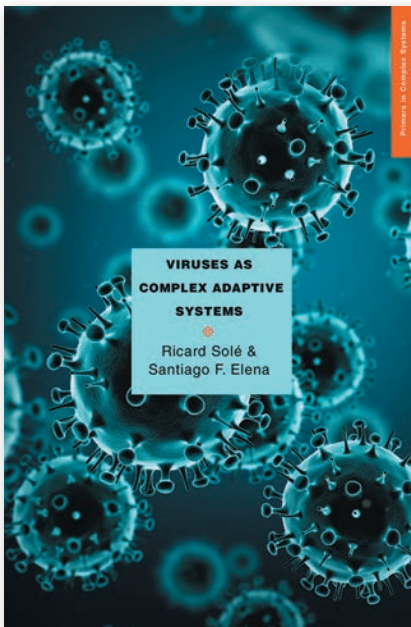
—Robert Michael Pyle, author of *Mariposa Road* and *Magdalena Mountain*

Fungipedia

Fungipedia presents a delightful A–Z treasury of mushroom lore. With more than 180 entries—on topics as varied as *Alice in Wonderland*, chestnut blight, medicinal mushrooms, poisonings, Santa Claus, and waxy caps—this collection will transport both general readers and specialists into the remarkable universe of fungi.

LAWRENCE MILLMAN is a mycologist and author of numerous books, including *Our Like Will Not Be There Again*, *Last Places*, *Fascinating Fungi of New England*, and *At the End of the World*.

AMY JEAN PORTER is an artist, illustrator, and naturalist. Her illustrated books include *Of Lamb* and *The Artists’ and Writers’ Cookbook*.



2018. 240 pages. 69 b/w illus.
 Paperback 9780691158846 \$35.00 | £27.00
 E-book 9780691185118
 Primers in Complex Systems

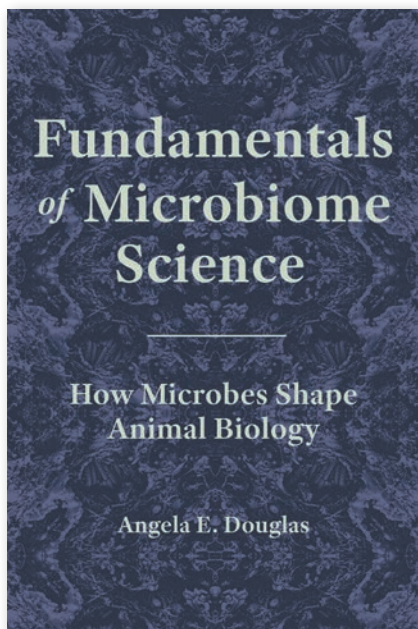
“This book demonstrates how viruses, besides being fascinating organisms, can provide experimental tests and case studies for many of the evolutionary processes that are important to biologists.”

—Lin Chao, University of California, San Diego

Viruses as Complex Adaptive Systems

Viruses are everywhere, infecting all sorts of living organisms, from the tiniest bacteria to the largest mammals. Many are harmful parasites, but viruses also play a major role as drivers of our evolution as a species and are essential regulators of the composition and complexity of ecosystems on a global scale. This concise book draws on complex systems theory to provide a fresh look at viral origins, populations, and evolution, and the coevolutionary dynamics of viruses and their hosts.

RICARD SOLÉ is research professor and head of the Complex Systems Lab at Pompeu Fabra University in Barcelona. **SANTIAGO F. ELENA** is professor and head of the Evolutionary Systems Virology Lab at the Spanish National Research Council (CSIC) in Valencia.



2018. 248 pages, 76 b/w illus, 2 tables.
Hardback 9780691160344 \$39.50 | £30.00
E-book 9781400889822

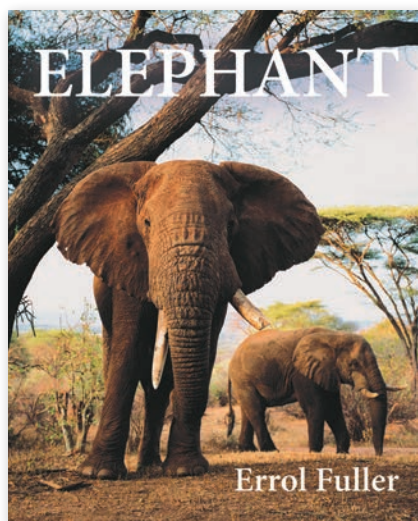
“Highly recommended. Angela Douglas has produced a book of great scholarship, clarity, and intelligence—and with the loving touch of a biologist. Douglas has much to teach students and experts alike.”

—Martin J. Blaser, author of *Missing Microbes: How the Overuse of Antibiotics Is Fueling Our Modern Plagues*

Fundamentals of Microbiome Science

An essential introduction to a cutting-edge field that is revolutionizing the life sciences, this book explains why microbiome science presents a more complete picture of the biology of humans and other animals, and how it can deliver novel therapies for many medical conditions and new strategies for pest control.

ANGELA E. DOUGLAS is the Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology at Cornell University. Her books include *The Symbiotic Habit* (Princeton) and *Symbiotic Interactions*.



September 2019. 288 pages, 202 color illus.
Hardback 9780691191324 \$29.95 | £24.00
E-book 9780691195391
Not for sale in Thailand

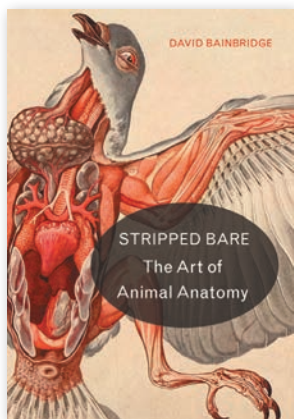
“A gorgeous book. Readers will want to bask in these glorious photos of elephants.”

—Lynette A. Hart, University of California, Davis

Elephant

Elephants are among the most beloved of all creatures. Their behavior can seem almost human, from their complex social interactions to their need to mourn their dead. They are also among the most persecuted of animals. In this stunningly illustrated book, Errol Fuller provides a rich and moving portrait of elephants, exploring their natural history, the legends that have grown up around them, their unique place in art and literature, and their urgent need for protection today.

ERROL FULLER is an acclaimed writer and painter and a world authority on animal extinction and the curiosities of natural history. His many books include the award-winning *Extinct Birds* as well as *Lost Animals* (Princeton), *Dodo*, *The Great Auk*, and *Drawn from Paradise* (with David Attenborough).

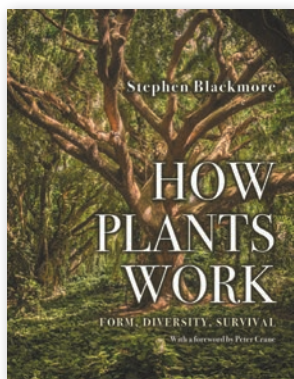


Stripped Bare

For more than two thousand years, comparative anatomy—the study of anatomical variation among different animal species—has been used to make arguments in natural philosophy, reinforce religious dogma, and remind us of our own mortality. This stunningly illustrated compendium traces the intertwined intellectual and artistic histories of comparative anatomy from antiquity to today.

DAVID BAINBRIDGE is University Clinical Veterinary Anatomist at the University of Cambridge. His books include *Curvology: The Origins and Power of Female Body Shape* and *Beyond the Zonules of Zinn: A Fantastic Journey through Your Brain*.

2018. 256 pages. 260 color illus.
 Hardback 9780691181424 \$29.95 | £24.00 E-book 9780691183978
 For sale only in the United States, US Dependencies, and Canada



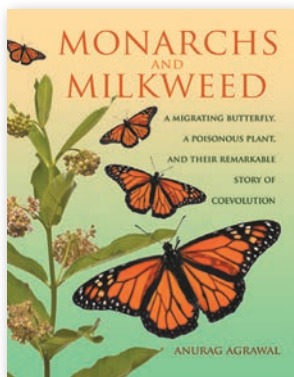
“Every page includes a photo or a few images, all shot by brilliant photographers that capture engaging angles and are a delight to browse.” —*Pennsylvania Literary Journal*

How Plants Work

From towering redwood trees and diminutive mosses to plants that have stinging hairs and poisons, the diverse range of plant life is extraordinary. *How Plants Work* is a fascinating inquiry into, and celebration of, the complex plant kingdom.

STEPHEN BLACKMORE is a botanist and conservationist. His books include *Green Universe* and *Plant Conservation Science and Practice*. He is chairman of Botanic Gardens Conservation International and the Darwin Expert Committee.

2018. 368 pages. 400 color illus.
 Hardback 9780691177496 \$35.00 | £27.00 For sale only in North America



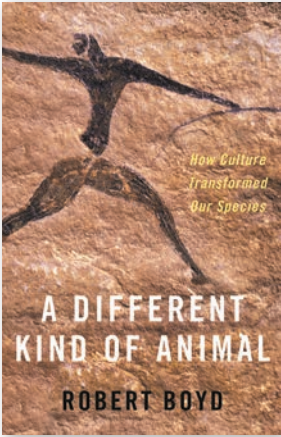
“Gorgeously written and wonderfully illustrated.”
 —Thomas D. Seeley, author of *Honeybee Democracy*

Monarchs and Milkweed

In *Monarchs and Milkweed*, Anurag Agrawal presents a vivid investigation into how the monarch butterfly has evolved closely alongside the milkweed—a toxic plant named for the sticky white substance emitted when its leaves are damaged—and how this inextricable and intimate relationship has been like an arms race over the millennia, a battle of exploitation and defense between two fascinating species.

ANURAG AGRAWAL is a professor in the Department of Ecology and Evolutionary Biology and the Department of Entomology at Cornell University.

2017. 296 pages. 37 color + 35 b/w illus.
 Hardback 9780691166353 \$29.95 | £24.00 E-book 9781400884766



“[A] fascinating introduction to a fertile field of cultural research that should be better-known.”—*Cosmos*

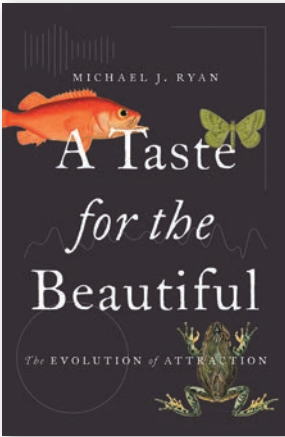
A Different Kind of Animal

Human beings have evolved to become the most dominant species on Earth. This astonishing transformation is usually explained in terms of cognitive ability. But Robert Boyd argues that culture—our ability to learn from each other—has been the essential ingredient. He shows how a unique combination of cultural adaptation and large-scale cooperation has transformed our species and assured our survival—making us the different kind of animal we are today.

ROBERT BOYD is Origins Professor in the School of Human Evolution and Social Change at Arizona State University.

October 2019, 248 pages. 26 b/w illus. 1 table.
Paperback 9780691195902 \$18.95 | £14.99

E-book 9781400888528



“How Darwin would have loved a book such as this.”—*BBC Wildlife*

A Taste for the Beautiful

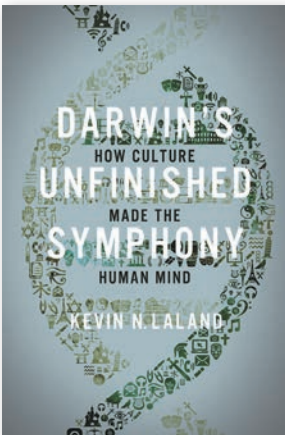
In *A Taste for the Beautiful*, Michael Ryan, one of the world’s leading authorities on animal behavior, tells the remarkable story of how he and other scientists have taken up where Darwin left off, transforming our understanding of sexual selection and shedding new light on animal and human behavior.

MICHAEL J. RYAN is the Clark Hubbs Regents Professor in Zoology at the University of Texas and a Senior Research Associate at the Smithsonian Tropical Research Institute in Panama.

2019. 224 pages. 16 color + 8 b/w illus.

Paperback 9780691191393 \$16.95 | £13.99

E-book 9780691191980, 9781400889150



“Darwin would be proud.”—Nicola Clayton, University of Cambridge and Scientist in Residence at Rambert, UK

Darwin’s Unfinished Symphony

Darwin’s Unfinished Symphony presents a captivating new theory of human cognitive evolution. This compelling and accessible book reveals how culture is not just the magnificent end product of an evolutionary process that produced a species unlike all others—it is also the key driving force behind that process.

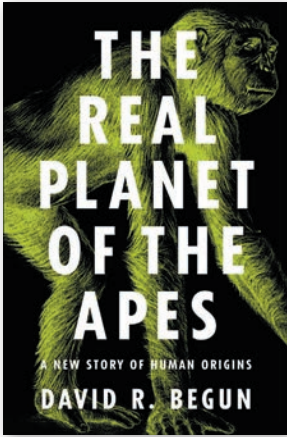
KEVIN N. LALAND is professor of behavioral and evolutionary biology at the University of St Andrews.

2018. 464 pages. 13 b/w illus.

Paperback 9780691182810 \$22.95 | £17.99

E-book 9780691184470, 9781400884872

Winner of the British Psychological Society Book Award, Best Academic Monograph
A Forbes.com’s Best Biology Book



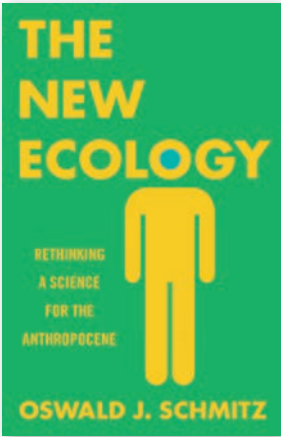
“There is much to like in this enjoyable book.”
—Simon Underdown, *Times Higher Education*

The Real Planet of the Apes

In this compelling and accessible book, David Begun, one of the world’s leading paleoanthropologists, transports readers to an epoch in the remote past when the Earth was home to many migratory populations of ape species. Begun draws on the latest astonishing discoveries in the fossil record, as well as his own experiences conducting field expeditions, to offer a sweeping evolutionary history of great apes and humans.

DAVID R. BEGUN is professor of anthropology at the University of Toronto.

2018. 264 pages. 16 color + 27 b/w illus. 2 tables. 5 maps.
Paperback 9780691182803 \$19.95 | £14.99 E-book 9781400874279
A Choice Outstanding Academic Title of the Year



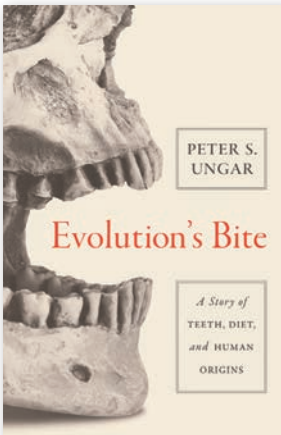
“*The New Ecology* underlines the essential role that humans can play in shaping what the Earth will look like in the coming century.”
—Lisa Kaaki, *Arab News*

The New Ecology

Our species has transitioned from being one among millions on Earth to the species that is single-handedly transforming the entire planet to suit its own needs. *The New Ecology* shows how today’s ecology can provide the insights we need to appreciate the crucial role we play in this era of unprecedented global environmental transition.

OSWALD J. SCHMITZ is professor of population and community ecology in the School of Forestry and Environmental Studies at Yale University.

2018. 256 pages.
Paperback 9780691182827 \$22.95 | £17.99 E-book 9781400883462



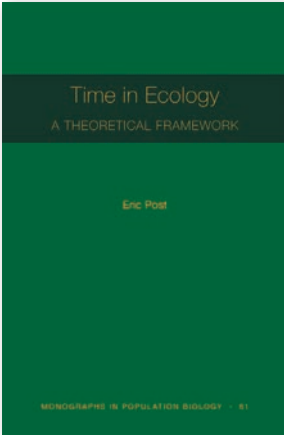
“I dug [*Evolution’s Bite*]. Sink your teeth into it.”
—Steve Mirsky, *Scientific American*

Evolution’s Bite

In *Evolution’s Bite*, noted paleoanthropologist Peter Ungar brings together for the first time cutting-edge advances in understanding human evolution with new approaches to uncovering dietary clues from fossil teeth. The result is a remarkable investigation into the ways that teeth—their shape, chemistry, and wear—reveal how we came to be.

PETER S. UNGAR is Distinguished Professor and director of the Environmental Dynamics Program at the University of Arkansas.

2018. 248 pages. 25 b/w illus.
Paperback 9780691182834 \$19.95 | £14.99 E-book 9781400884759
A Choice Outstanding Academic Title of the Year



“A gem of a book! Post presents compelling theory and credible, concrete examples that demonstrate the ecological role of time as a limiting resource. This work will undoubtedly shape the future of phenological research for years to come.”

—Andrew Richardson, Northern Arizona University

Time in Ecology

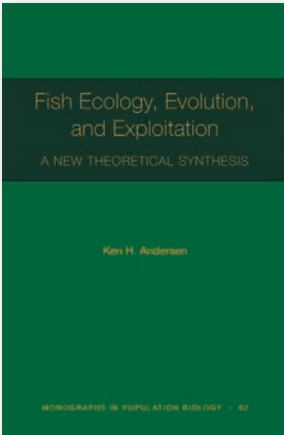
Ecologists traditionally regard time as part of the background against which ecological interactions play out. In this book, Eric Post argues that time should be treated as a resource used by organisms for growth, maintenance, and offspring production.

ERIC POST is professor of climate change ecology and fellow of the John Muir Institute at the University of California, Davis.

2019. 248 pages. 57 b/w illus. 1 table.

Paperback 9780691182353 \$40.00 | £30.00

E-book 9780691185491



“This book is a fantastic explanation of size- and trait-based analysis of marine ecosystems that should be required reading for marine ecologists and fisheries scientists.”

—Ray Hilborn, University of Washington

Fish Ecology, Evolution, and Exploitation

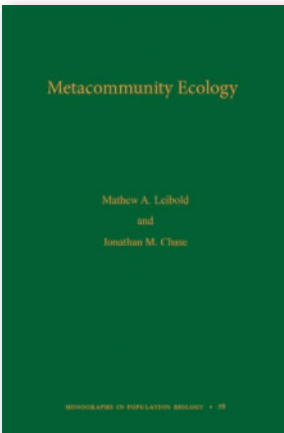
This incisive book unifies the thinking in ecology and fisheries science and is an indispensable reference for anyone seeking to apply size- and trait-based models to fish demography, fisheries impact assessments, and fish evolutionary ecology.

KEN H. ANDERSEN is professor of theoretical marine ecology and deputy director of the Centre for Ocean Life at the Technical University of Denmark’s National Institute of Aquatic Resources.

2019. 280 pages. 71 b/w illus. 10 tables.

Paperback 9780691192956 \$40.00 | £30.00

E-book 9780691189260



“In this magisterial book, Leibold and Chase provide a conceptually coherent synthesis of the burgeoning field of metacommunity ecology.”

—Robert Holt, University of Florida

Metacommunity Ecology

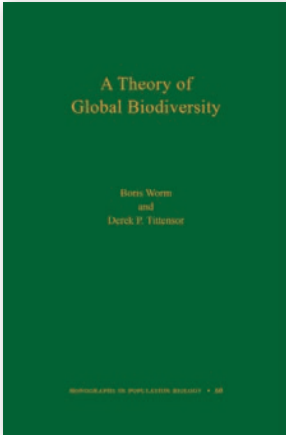
Moving seamlessly across scales and subdisciplines, *Metacommunity Ecology* is an invaluable reference, one that offers a more integrated approach to ecological patterns and processes.

MATHEW A. LEIBOLD is professor of biology at the University of Florida. **JONATHAN M. CHASE** is professor of biodiversity synthesis at the German Centre for Integrative Biodiversity Research.

2017. 504 pages. 97 b/w illus. 11 tables.

Hardback 9780691049168 \$65.00 | £50.00

E-book 9781400889068



“An impressive step forward in our quest to understand the patterns of life on this planet.”

—Cristiana Paşca Palmer, United Nations Assistant Secretary General and Executive Secretary of the Convention on Biological Diversity

A Theory of Global Biodiversity

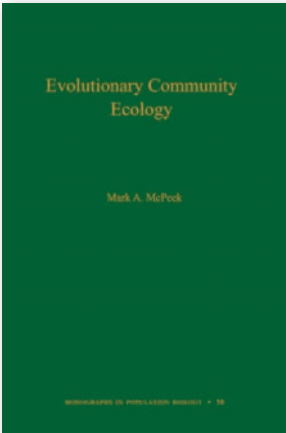
Integrating ecological and evolutionary perspectives, *A Theory of Global Biodiversity* yields surprising insights into the fundamental mechanisms that shape the distribution of life on our planet.

BORIS WORM is Killam Professor of Biology at Dalhousie University. **DEREK P. TITTENSOR** is adjunct professor of biology at Dalhousie University and senior marine biodiversity scientist at the United Nations Environment Programme World Conservation Monitoring Centre.

2018. 232 pages. 51 b/w illus. 9 tables.

Hardback 9780691154831 \$49.95 | £40.00

E-book 9781400890231



“Uniting the fields of ecology and evolutionary biology, *Evolutionary Community Ecology* is a landmark book.”

—Jonathan Losos, coeditor of *How Evolution Shapes Our Lives*

Evolutionary Community Ecology

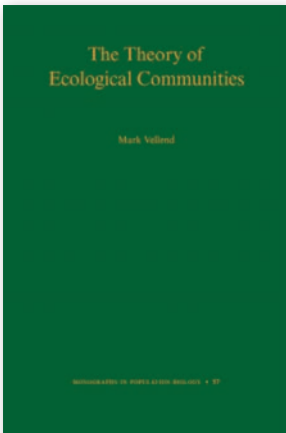
Integrating evolutionary theory into the study of community ecology, *Evolutionary Community Ecology* provides a new framework for predicting how communities are organized and how they may change over time.

MARK A. MCPEEK is the David T. McLaughlin Distinguished Professor of Biological Sciences at Dartmouth College.

2017. 336 pages. 56 line illus. 4 tables.

Hardback 9780691088778 \$60.00 | £47.00

E-book 9781400888214



“[Vellend] brings together diverse empirical and theoretical traditions in an unprecedented, engaging, and productive manner.”

—Max W. Dresow and Jake J. Grossman, *Metascience*

The Theory of Ecological Communities

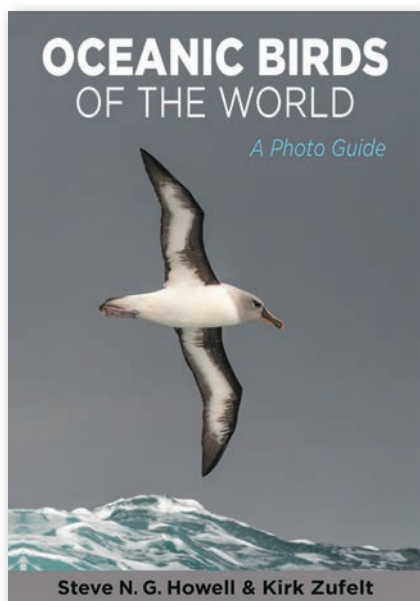
A plethora of different theories, models, and concepts make up the field of community ecology. Amid this vast body of work, is it possible to build one general theory of ecological communities? *The Theory of Ecological Communities* takes this as a starting point to pull together community ecology's various perspectives into a more unified whole.

MARK VELLEND is professor of biology at the Université de Sherbrooke.

2016. 248 pages. 58 b/w illus. 9 tables.

Hardback 9780691164847 \$49.95 | £40.00

E-book 9781400883790



August 2019. 360 pages. 368 color illus. 114 maps.
 Paperback 9780691175010 \$35.00 | £27.00
 E-book 9780691197012

“This breathtaking book is a tour de force.”
 —Edward S. Brinkley, author of *National Wildlife Federation Field Guide to Birds of North America*

Oceanic Birds of the World

Oceanic birds are among the most remarkable but least known of all birds, living at sea, far from the sight of most people. They offer unusual identification challenges. The first field guide to the world’s oceanic birds in more than two decades, this exciting and authoritative book draws on decades of firsthand experience on the open seas. It features clear text filled with original insights and new information and more than 2,200 carefully chosen color images that bring the ocean and its remarkable winged inhabitants to life.. Never before have oceanic birds been presented in such an accessible and comprehensive way.

STEVE N. G. HOWELL is an international bird tour leader with WINGS. **KIRK ZUFELT** is a physician with a lifelong passion for birds and natural history.



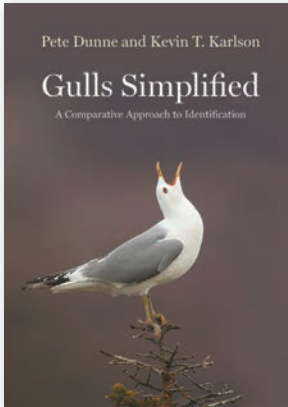
August 2019. 304 pages. 85 b/w illus. 4 maps.
 Hardback 9780691178554 \$29.95 | £24.00
 E-book 9780691195438

“For birds, warm-blooded creatures like us, survival through winter is one of their greatest challenges. . . . What is so special about what they do to survive, where others would die? Read this book and be amazed, inspired, and touched with awe.”
 —Bernd Heinrich, author of *Ravens in Winter* and *Winter World*

Birds in Winter

Birds in Winter is the first book devoted to the ecology and behavior of birds during this most challenging season. Birds remaining in regions with cold weather must cope with much shorter days to find food and shelter even as they need to avoid predators and stay warm through the long nights, while migrants to the tropics must fit into very different ecosystems and communities of resident birds. Filled with elegant line drawings by artist and illustrator Margaret La Farge, *Birds in Winter* describes how winter influences the lives of birds from the poles to the equator.

ROGER F. PASQUIER is currently an associate in the Department of Ornithology at the American Museum of Natural History.



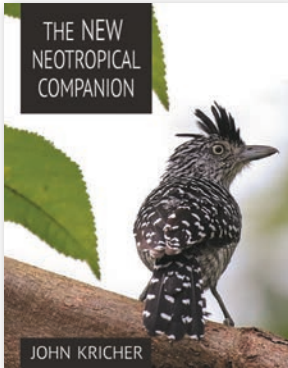
“*Gulls Simplified* is an accessible, informative, and even humorous guide to identifying these wide-ranging, wily birds.”
—The Editors, *Audubon*

Gulls Simplified

An essential field companion for North American birders, *Gulls Simplified* reduces the confusion commonly associated with gull identification, offering a more user-friendly way of observing these marvelous birds.

PETE DUNNE is Birding Ambassador at Large for New Jersey Audubon. **KEVIN T. KARLSON** is an accomplished birder, tour leader, and wildlife photographer.

2018. 208 pages. 330 color illus.
Paperback 9780691156941 \$24.95 | £20.00 E-book 9780691185521



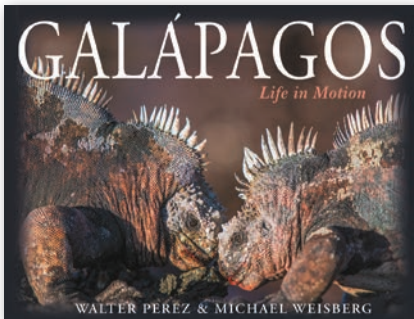
“Who could ask for a more knowledgeable companion than this book.”
—*Bird Watching Magazine*

The New Neotropical Companion

The New Neotropical Companion is the completely revised and expanded edition of a book that has helped thousands of people to understand the complex ecology and natural history of the most species-rich area on Earth, the American tropics. Featuring stunning color photos throughout, this is the only guide to the American tropics that is all-inclusive, encompassing the entire region's ecology and the amazing relationships among species.

JOHN KRICHER is professor of biology at Wheaton College.

2017. 448 pages. 18 color illus.
Paperback 9780691115252 \$35.00 | £27.00 E-book 9781400885589



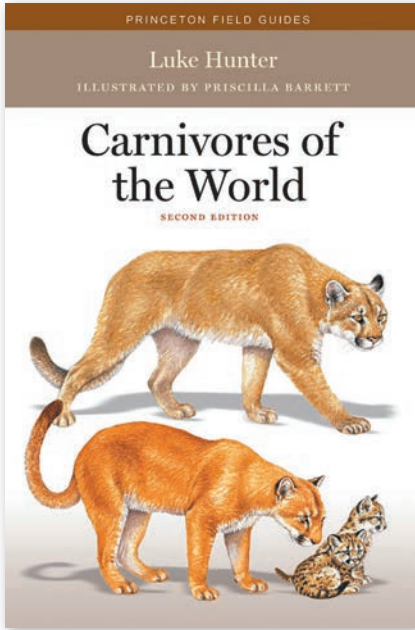
“This book brings readers close up to the wonders of the living creatures that evolve in the Galápagos.”
—Arturo Izurieta, executive director of the Charles Darwin Foundation for the Galápagos Islands

Galápagos

The Galápagos Islands are home to an amazing variety of iconic creatures. This stunning book presents an unprecedented photographic account of the survival behaviors of these beautiful and unique animals.

WALTER PEREZ is a photographer and naturalist. **MICHAEL WEISBERG** is a science educator, documentary filmmaker, and philosopher of science at the University of Pennsylvania, where he codirects the Galápagos Education and Research Alliance.

2018. 208 pages. 200 color photos.
Hardback 9780691174136 \$35.00 | £27.00 E-book 9780691184579



2019. 256 pages. 93 color + 425 b/w illus, 250 maps.
Paperback 9780691182957 \$29.95 | £24.00
For sale in the United States, US Dependencies, the Philippines,
and Canada

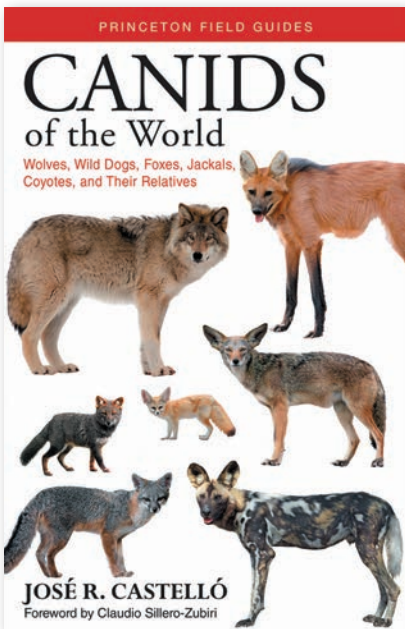
“[A] world first and a truly impressive, comprehensive and highly attractive volume. Everybody interested in carnivorans will want to obtain a copy and I cannot recommend it highly enough. Outstanding.”

—Darren Naish, *ScientificAmerican.com*

Carnivores of the World

This is an expanded and fully revised new edition of a highly acclaimed guide to the world’s carnivores—some of the most spectacular and feared creatures in nature. Covering all 250 species of terrestrial, true carnivores, from the majestic polar bear and predatory wild cats to the tiny least weasel, Luke Hunter’s comprehensive, up-to-date, and user-friendly guide features 93 color plates by acclaimed wildlife artist Priscilla Barrett that depict every species and numerous subspecies, as well as more than 400 drawings of skulls and footprints. Features new to this edition include revised and expanded species coverage, a distribution map for every species, 25 new behavioral illustrations, and much more.

LUKE HUNTER is one of the world’s leading authorities on wild carnivores. His books include *Wild Cats of the World* and *Cheetah*.



2018. 336 pages. 150 color + 139 b/w illus. 174 maps.
Paperback 9780691176857 \$29.95 | £24.00
E-book 9780691185415

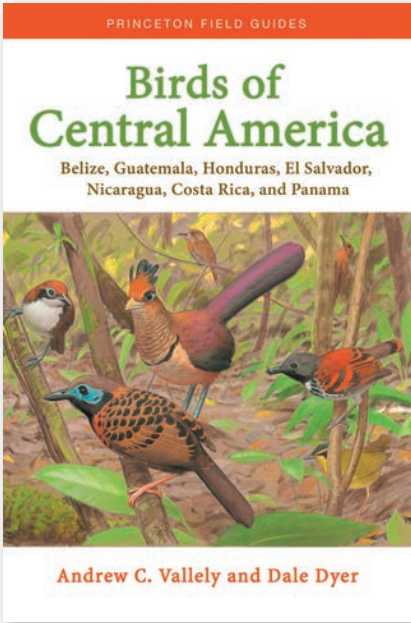
“*Canids of the World* is a timely resource and a fascinating survey of wolves and their canine relatives.”

—Nancy Jo Tubbs, *International Wolf*

Canids of the World

This stunningly illustrated and easy-to-use field guide covers every species of the world’s canids, from the Gray Wolf of North America to the dholes of Asia, from African jackals to the South American Bush Dog. It features more than 150 superb color plates depicting every kind of canid and detailed facing-page species accounts that describe key identification features, morphology, distribution, subspeciation, habitat, and conservation status in the wild. The book also includes distribution maps and tips on where to observe each species, making *Canids of the World* the most comprehensive and user-friendly guide to these intriguing and spectacular mammals.

JOSÉ R. CASTELLÓ is a medical doctor, naturalist, and wildlife photographer.



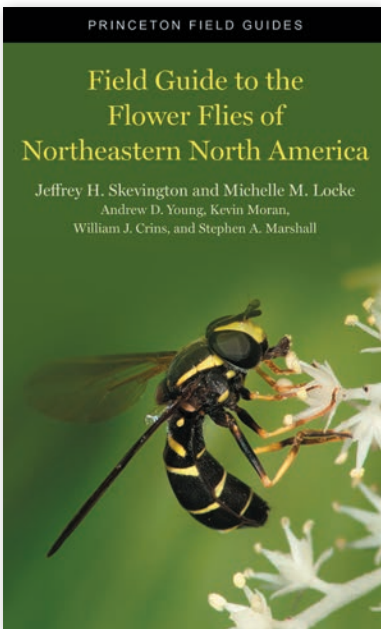
2018. 584 pages.
Paperback 9780691138022 \$49.50 | £40.00
E-book 9780691184159

“It is the first bird field guide to every country of Central America.... Covering 1,261 species with data and taxonomy... the field guide is an exciting achievement.”
—Donna Schulman, *10,000 Birds*

Birds of Central America

Birds of Central America is the first comprehensive field guide to the avifauna of the entire region, including Belize, Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, and Panama. Handy and compact, the book presents text and illustrations for nearly 1,200 resident and migrant species, and information on all rare vagrants. An introduction provides a brief overview of the region’s landscape, climate, and biogeography. The culmination of more than a decade of research and field experience, *Birds of Central America* is an indispensable resource for all those interested in the bird life of this part of the world.

ANDREW C. VALLELY and **DALE DYER** are currently field associates in the Department of Ornithology at the American Museum of Natural History.



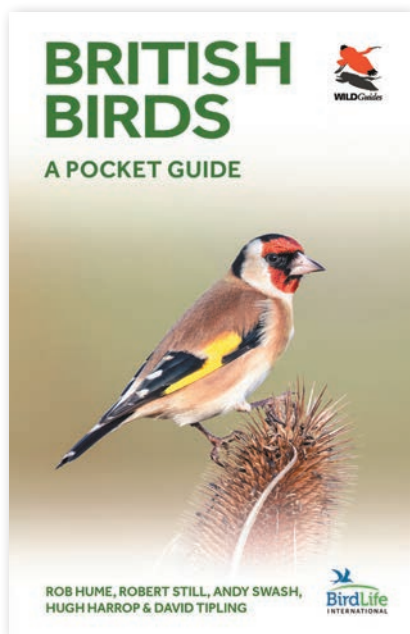
2019. 512 pages. 3,000 color illus. 414 maps.
Paperback 9780691189406 \$27.95 | £22.00
E-book 9780691192512

“Making a quantum leap for the field, this work is a very important contribution to the knowledge about flower flies in North America.... There is nothing comparable.”
—Martin Hauser, California Department of Food and Agriculture

Field Guide to the Flower Flies of Northeastern North America

This is the first comprehensive field guide to the flower flies (also known as hover flies) of northeastern North America. Flower flies are, along with bees, our most important pollinators. Found in a varied range of habitats, from backyard gardens to aquatic ecosystems, these flies are often overlooked because many of their species mimic bees or wasps. Despite this, many species are distinctive and even subtly differentiated species can be accurately identified. This handy and informative guide teaches you how.

JEFFREY H. SKEVINGTON, MICHELLE M. LOCKE, ANDREW D. YOUNG, KEVIN MORAN, WILLIAM J. CRINS & STEPHEN A. MARSHALL



August 2019. 272 pages. 1,600 color illus. 259 silhouettes.
248 maps.
Paperback 9780691181677 \$12.99 | £9.99
E-book 9780691190587

British Birds

This innovative and carefully designed photographic guide provides a concise introduction to the identification of the 246 birds most likely to be seen in Great Britain and Ireland. It is the perfect book for anyone wanting to put a name to the birds in their garden, local area or on visits farther afield. Packed with hundreds of stunning photos showing the birds in their many variations, and written and designed by a team of experienced birdwatchers, this is the ideal companion for anyone interested in learning more about the wild birds around us.

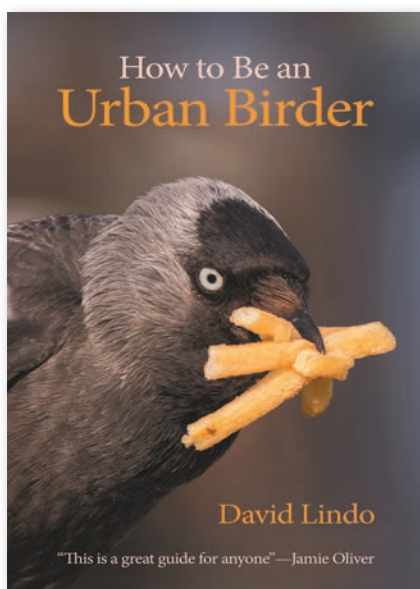
ROB HUME is a freelance writer, editor and artist.

ROBERT STILL is publishing director of WILDGuides.

ANDY SWASH is managing director of WILDGuides.

HUGH HARROP is an award-winning photographer and the owner of the ecotourism business Shetland Wildlife.

DAVID TIPLING is one of the world's most widely published wildlife photographers.



2018. 232 pages. 290 color + 47 b/w illus.
Paperback 9780691179629 \$18.95 | £14.99
E-book 9780691184449

“Anyone looking for an urban nature manual will enjoy David Lindo’s *How to Be an Urban Birder*.”

—Patrick Barkham, *The Guardian*

How to Be an Urban Birder

Urban birding is fast becoming ornithology’s new rock ‘n’ roll. Birds and birding have never been cooler—and urban birding is at the cutting edge.

How to Be an Urban Birder is the world’s first guide to the art of urban birding—which is so easy and great fun! Here, urban birding pioneer David Lindo tells you everything you need to know about birds and birding in towns and cities in the UK.

DAVID LINDO is a naturalist, writer, broadcaster, speaker, photographer, wildlife tour leader and educator.

His mission is to connect the city folk of the world with the wonderful wildlife that is all around them—even in the middle of the Concrete Jungle. His motto is simple: Look up! He is also the author of *The Urban Birder* and *Tales from Concrete Jungles: Urban Birding around the World* (both Bloomsbury).



2018. 232 pages. 550+ color + b/w illus. 66 maps.
Paperback 9780691181417 \$23.95 | £17.99
E-book 9780691184586

“The most beautiful and comprehensive guide currently available.”—Christopher Heaton, *Towpath Talk*

“This is the definitive, must-have guide to the dragonflies of Britain and Ireland.... Highly recommended.”
—Mark Tyrrell, *Dragonfly News*

Britain's Dragonflies

Britain's Dragonflies is the only comprehensive photographic field guide to the damselflies and dragonflies of Great Britain and Ireland. Written by two of Britain's foremost Dragonfly experts, this fully revised and updated fourth edition features hundreds of stunning images and identification charts covering all 57 resident, migrant and former breeding species, and six potential vagrants.

DAVE SMALLSHIRE is an ecologist, lecturer and wildlife tour guide, and plays an active role in the British Dragonfly Society. **ANDY SWASH** is an ecologist, a renowned wildlife photographer and tour leader and managing director of *WILDGuides*.



August 2019. 232 pages. 322 color illus. 159 maps.
Paperback 9780691197289 \$23.95 | £17.99
E-book 9780691198958

Praise for the previous edition:

“A ‘must have’ for the field naturalist.”
—Les Hill, *Butterfly Magazine*

Britain's Day-flying Moths

This concise photographic field guide helps you to identify the day-flying moths most likely to be seen in Great Britain and Ireland. It combines stunning photographs, clear and authoritative text and an easy-to-use design to increase your knowledge and enjoyment of these intriguing and often colourful insects.

DAVID NEWLAND is an emeritus professor of engineering at Cambridge University and has had a lifelong interest in butterflies and moths. **ROBERT STILL** is publishing director of *WILDGuides* and a prolific natural history author. **ANDY SWASH** is managing director of *WILDGuides* and a well-known wildlife photographer and author.



Fungi of Temperate Europe

Fungi of Temperate Europe is one of the most comprehensive mycological guides ever published. Featuring more than 7,000 photographs, this lavish two-volume set treats more than 2,800 species of fungi across the region. Including agarics, boletes, chanterelles and morels but also more obscure groups such as cyphelloids, cup fungi, pyrenomycetous fungi and hysterioids, this guide takes an unprecedentedly broad approach to communicating fungal diversity. It is a must-have resource for any amateur or professional mycologist.

THOMAS LÆSSØE is a mycologist and senior researcher at the Natural History Museum of Denmark. **JENS H. PETERSEN** is a mycologist, graphic designer and photographer.

September 2019. 1708 pages. 7,000 color illus.
 Hardback two-volume set 9780691180373 \$110.00 | £95.00 E-book 9780691197760



Guide to the Manta and Devil Rays of the World

Manta and devil rays are some of the most intriguing creatures in the ocean. Driven forward by powerful beats of wing-like pectoral fins, these filter feeders search the waters for prey, their horn-like head fins giving rise to ancient mariners' tales of fearsome devilfish dragging boats into the ocean depths. Beloved by scuba divers and marine biologists alike, these impressive animals have never had a comprehensive field guide dedicated to them—until now.

GUY STEVENS is chief executive and founder of the Manta Trust. **DANIEL FERNANDO** is associate director of the Manta Trust and cofounder of the Blue Resources Trust. **MARC DANDO** is a scientific illustrator and publisher. **GIUSEPPE NOTARBARTOLO DI SCIARA** is an Italian marine conservation ecologist.

2018. 144 pages. 200 color illus.
 Paperback 9780691183329 \$19.95 | £14.99 Not for sale in the European Union

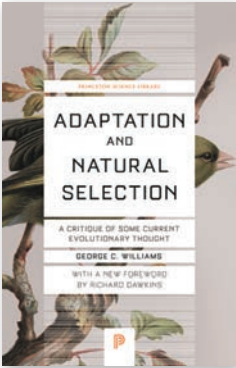


BirdGenie™ is a breakthrough app that helps anyone with an Apple® or Android® smartphone or tablet accurately identify birds in the backyard, local park, or on the nature trail—all with the tap of a button! Just hold up your phone, record the bird singing, and BirdGenie™ helps you identify the species. The app's highly developed sound identification ability and expert matching system enable bird enthusiasts to achieve an accuracy unheard of in the birding field. It's perfect for anyone who wants to learn more about the birds around them.

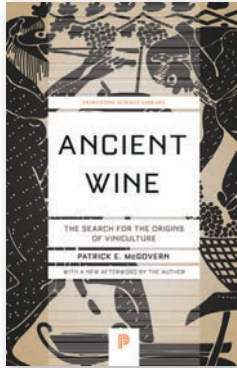
TOM STEPHENSON, STEPHEN TRAVIS POPE & SCOTT WHITTLE

Technical Specifications: Requires iOS 10 or later. Compatible with all iPhones after iPhone 6, including 7, 8, and X, and the iPad, iPad Mini, and iPod Touch. Requires Android 5.0 and above. Compatible with most common Android phones and tablets. \$3.99 | £2.99
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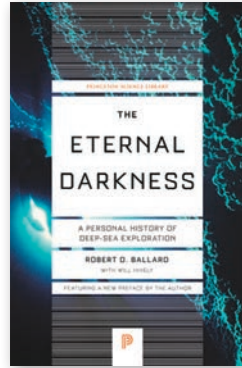
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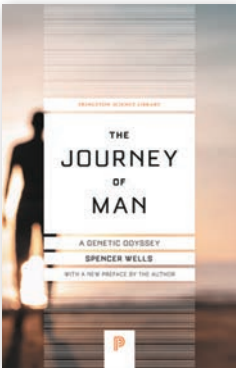
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George C. Williams
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E-book 9780691185507



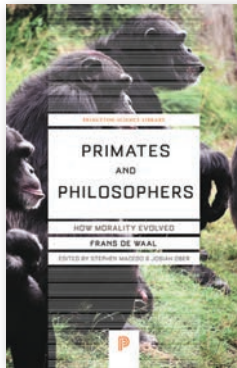
Ancient Wine
Patrick E. McGovern
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E-book 9780691198965



The Eternal Darkness
Robert D. Ballard
With Will Hively
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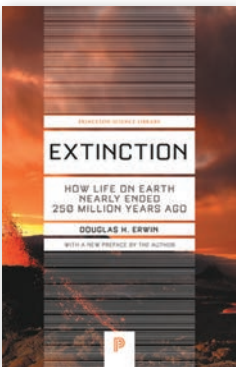
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Spencer Wells
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Frans de Waal
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E-book 9781400830336



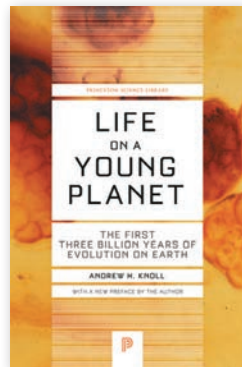
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Paul A. Colinvaux
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Douglas H. Erwin
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E-book 9781400866052

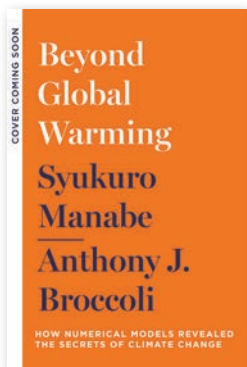


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Walter Alvarez
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E-book 9781400847402

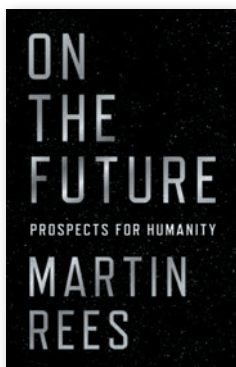


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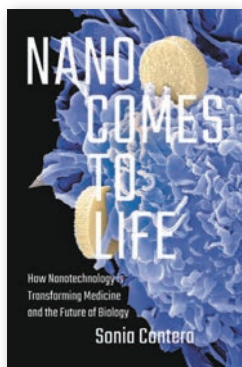
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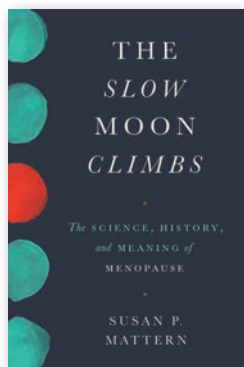
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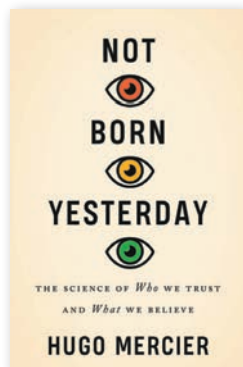
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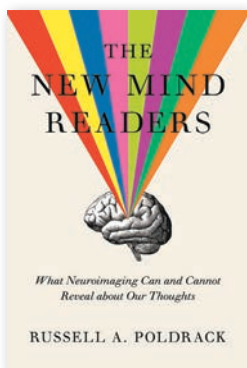
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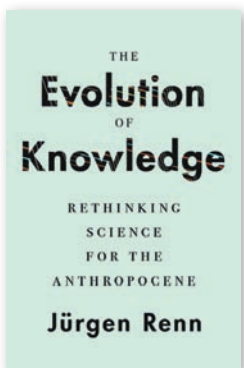
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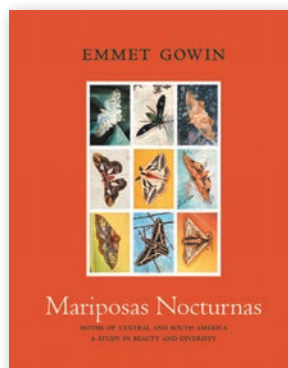
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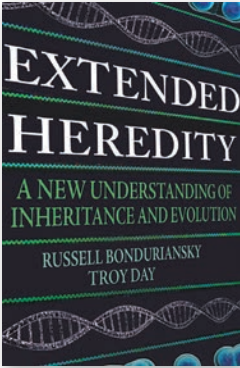


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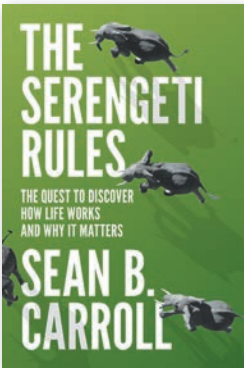
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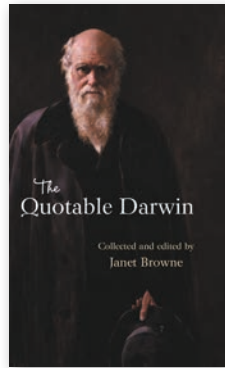
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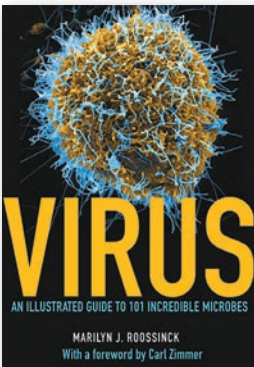
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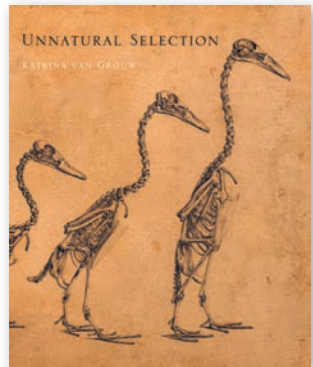
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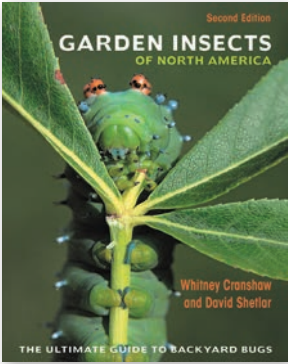


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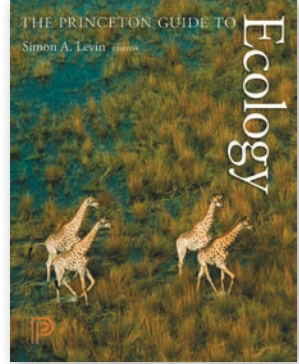
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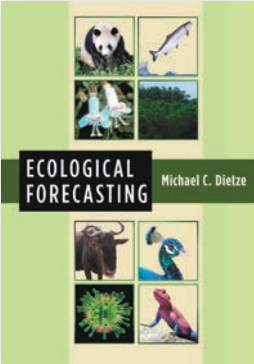
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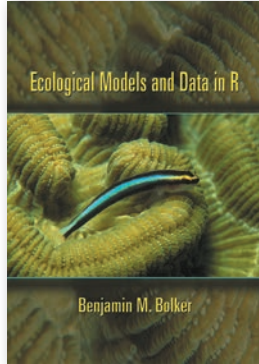
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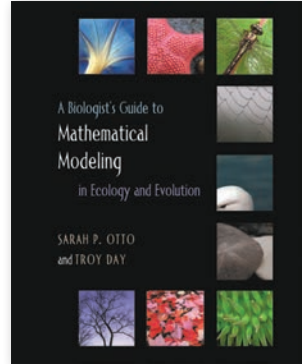
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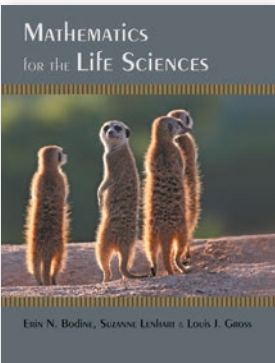
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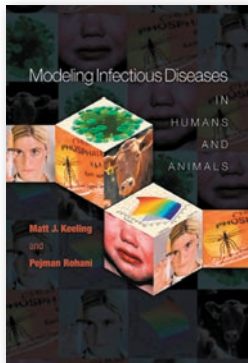
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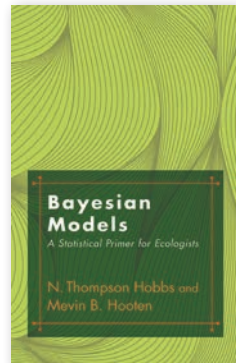
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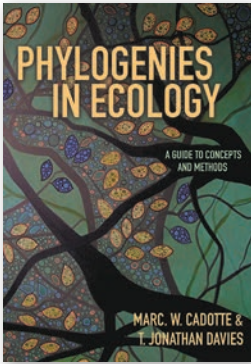


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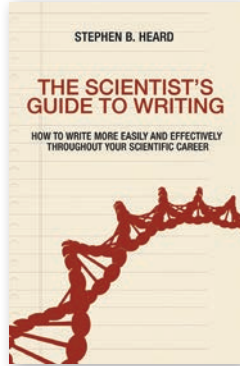


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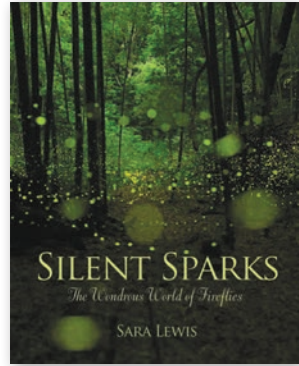


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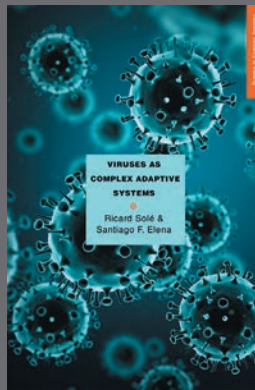
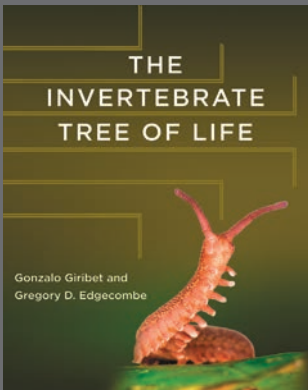
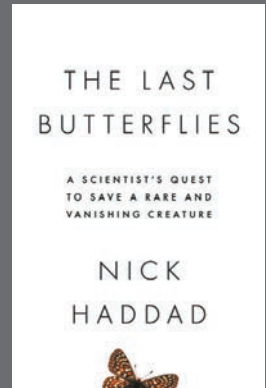
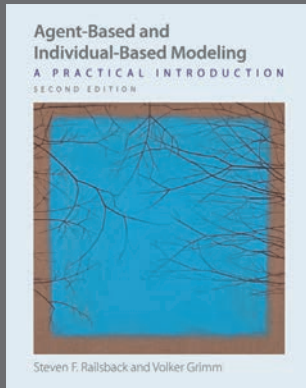
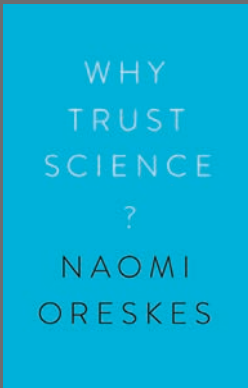
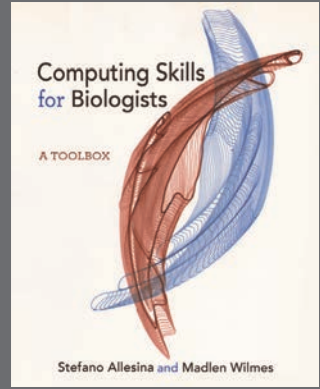
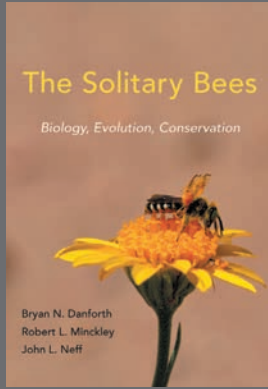
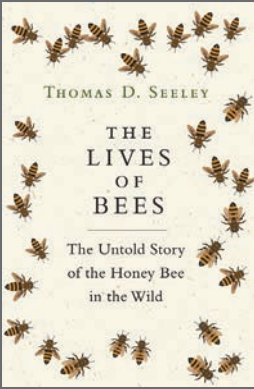
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