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The Mind of a Bee
Lars Chittka

A rich and surprising exploration of the intelligence of bees

Most of us are aware of the hive mind—the power of bees as an amazing collective. But do we know how uniquely intelligent bees are as individuals? In The Mind of a Bee, Lars Chittka draws from decades of research, including his own pioneering work, to argue that bees have remarkable cognitive abilities. He shows that they are profoundly smart, have distinct personalities, can recognize flowers and human faces, exhibit basic emotions, count, use simple tools, solve problems, and learn by observing others. They may even possess consciousness.

Taking readers deep into the sensory world of bees, Chittka illustrates how bee brains are unparalleled in the animal kingdom in terms of how much sophisticated material is packed into their tiny nervous systems. He looks at their innate behaviors and the ways their evolution as foragers may have contributed to their keen spatial memory. Chittka also examines the psychological differences between bees and the ethical dilemmas that arise in conservation and laboratory settings because bees feel and think. Throughout, he touches on the fascinating history behind the study of bee behavior.

Exploring an insect whose sensory experiences rival those of humans, The Mind of a Bee reveals the singular abilities of some of the world’s most incredible creatures.

Field Guide to Coastal Wildflowers of Britain, Ireland and Northwest Europe
Paul Sterry, Andrew Cleave

A richly illustrated guide to the wildflowers and other flora of coastal Britain, Ireland and Northwest Europe

The rugged and beautiful coastal regions of Britain and Ireland are among the crowning glories of these islands. Few visitors can fail to marvel at the stunning sights of Cornwall’s clifftops resplendent with flowering Thrift, or be struck by the resilience of plants that thrive on the inhospitable shingle beaches of Dungeness on the coast of Kent. This field guide covers more than 600 species of wildflowers and other coastal flora found in Britain and Ireland, and coastal mainland Northwest Europe. Detailed species accounts describe wildflowers, grasses, sedges and rushes that occur on the coast or in abundance within sight of the sea.

Stunningly illustrated throughout, this comprehensive, user-friendly guide also covers trees and shrubs, a range of other groups from mosses and seaweeds, and more broadly, the natural history of coastal habitats.

• Covers more than 600 species of flowering plants
• Features over 1,500 spectacular colour photos
• Describes other groups such as ferns, mosses, liverworts, lichens, fungi and seaweeds
• Provides up-to-date colour distribution maps for Britain and Ireland
The Lives of Fungi
A Natural History of Our Planet's Decomposers
Britt Bunyard

A fascinating and richly illustrated exploration of the natural history of fungi

We know fungi are important, for us as well as the environment. But how they live, and what they can do, remains mysterious and surprising. Filled with stunning photographs, The Lives of Fungi presents an inside look into their hidden and extraordinary world.

The wonders of fungi are myriad: a mushroom poking up through leaf litter literally overnight, or the sensational hit of umami from truffle shavings. Alexander Fleming cured infections with mold and spiritual guides have long used psychedelic mushrooms to enhance understanding. Then there are the tiny threads of fungi, called hyphae, that create a communications network for the natural world while decomposing organic matter. Combining engaging and accessible text with beautiful images, The Lives of Fungi lays out all the essential facts about fungi for the mycologically curious.

The Lives of Moths
A Natural History of Our Planet's Moth Life
Andrei Sourakov, Rachel Warren Chadd

A richly illustrated look at the natural history of moths

Moths are among the most underappreciated insects on the planet, yet they make up the majority of some 180,000 known species of Lepidoptera. Filled with striking images, The Lives of Moths looks at the remarkable world of these amazing and beautiful creatures.

While butterflies may get more press than moths, Andrei Sourakov and Rachel Warren Chadd reveal that the lopsided attention is unjust. Moths evolved long before butterflies, and their importance cannot be overestimated. From the tiniest leaf miners to exotic hawk moths that are two hundred to three hundred times larger, these creatures are often crucial pollinators of flowers, including many that bloom at night or in twilight. The authors show that moths and their larvae are the main food source for thousands of animal species, and interact with other insect, plant, and vertebrate communities in ecosystems around the world, from tropical forests and alpine meadows to deserts and wetlands. The authors also explore such topics as evolution, life cycles, methods of communication, and links to humans.

A feast of remarkable facts and details, The Lives of Moths will appeal to insect lovers everywhere.
Habitats of the World
A Field Guide for Birders, Naturalists, and Ecologists
Iain Campbell, Ken Behrens, Charley Hesse, Phil Chaon

The first field guide to all of the world’s major land habitats—richly illustrated and packed with essential information to help you get the most out of your outdoor adventures

Accurately identifying and understanding habitats in detail is essential to any birder, naturalist, outdoor enthusiast, or ecologist who wants to get the most out of their experiences in the field. Habitats of the World is the first field guide to the world’s major land habitats—189 in all. Using the format of a natural history field guide, this compact, accessible, and comprehensive book features concise identification descriptions and is richly illustrated—including more than 650 color photographs of habitats and their wildlife, 150 distribution maps, 200 diagrams, and 150 silhouettes depicting each habitat alongside a human figure, providing an immediate grasp of its look and scale. Each major habitat has an illustrated “climate box” that allows easy comparisons between habitats. Thirty other illustrated boxes present clear explanations of complex phenomena affecting habitats—from plate tectonics and mountain formation to fire regimes and climate change. Requiring no scientific background, Habitats of the World offers quick and reliable information for anyone who wants a deeper understanding and appreciation of the habitats around them, whether in their own backyard or while travelling anywhere in the world.

- Covers 189 of the world’s major land habitats
- Provides all the information you need to quickly and accurately identify and understand habitats anywhere in the world
- Features concise text, more than 650 color photographs of habitats and their wildlife, an up-to-date distribution map for each habitat, and hundreds of helpful diagrams and illustrations

Turtles of the World
A Guide to Every Family
Jeffrey E. Lovich, Whit Gibbons

A lavishly illustrated guide to the world’s turtles that covers every family and genus

Turtles of the World reveals the extraordinary diversity of these amazing reptiles. Characterized by the bony shell that acts as a shield to protect the softer body within, turtles are survivors from the time of the dinosaurs and are even more ancient in evolutionary terms than snakes and crocodilians. Of more than 350 species known today, some are highly endangered. In this beautiful guide, turtle families, subfamilies, and genera are illustrated with hundreds of color photographs. Each genus profile includes a population distribution map, a table of information, and commentary that includes notable characteristics and discussion of related species.

- More than 250 beautiful color photos
- Each profile features a distribution map, table of information, and commentary
- Broad coverage includes every family and genus
Gulls of Europe, North Africa, and the Middle East
An Identification Guide
Peter Adriaens, Mars Muusse, Philippe J. Dubois, Frédéric Jiguet

A comprehensive photographic guide to the gull species of the Western Palearctic

Gulls occupy a particularly important place in the world of birds. But because they are notoriously difficult to identify, they have been relatively neglected in the ornithological literature. *Gulls of Europe, North Africa, and the Middle East* offers the most up-to-date guide for gull identification in Europe and beyond. With a direct and visual approach, and an abundance of beautiful color photographs, this book provides thorough accounts of all species and subspecies of gulls found in the Western Palearctic. The guide compares similar taxa and addresses the complexities of identifying hybrids. *Gulls of Europe, North Africa, and the Middle East* will be the standard work for identifying these birds for some time to come.

- Richly illustrated with nearly 1,400 color photographs
- Thorough accounts of all species and subspecies of gulls found in the Western Palearctic
- Up-to-date information for easy and accurate identification of 45 species

Wasps
The Astonishing Diversity of a Misunderstood Insect
Eric R. Eaton

The ultimate visual journey into the beautiful and complex world of wasps

Wasps are far more diverse than the familiar yellowjackets and hornets that harass picnickers and build nests under the eaves of our homes. These amazing, mostly solitary creatures thrive in nearly every habitat on Earth, and their influence on our lives is overwhelmingly beneficial. Wasps are agents of pest control in agriculture and gardens. They are subjects of study in medicine, engineering, and other important fields. Wasps pollinate flowers, engage in symbiotic relationships with other organisms, and create architectural masterpieces in the form of their nests. This richly illustrated book introduces you to some of the most spectacular members of the wasp realm, colorful in both appearance and lifestyle. From minute fairyflies to gargantuan tarantula hawks, wasps exploit almost every niche on the planet. So successful are they at survival that other organisms emulate their appearance and behavior. The sting is the least reason to respect wasps and, as you will see, no reason to loathe them, either. Written by a leading authority on these remarkable insects, *Wasps* reveals a world of staggering variety and endless fascination.

- Packed with more than 150 incredible color photos
- Includes a wealth of eye-popping infographics
- Provides comprehensive treatments of most wasp families
- Describes wasp species from all corners of the world
- Covers wasp evolution, ecology, physiology, diversity, and behavior
- Highlights the positive relationships wasps share with humans and the environment
Paleontology
An Illustrated History
David Bainbridge

An illustrated look at the art and science of paleontology from its origins to today

Humans have been stumbling upon the petrified remains of ancient animals since prehistoric times, leading to tales of giant dogs, deadly dragons, tree gods, sea serpents, and all manner of strange and marvelous creatures. In this richly illustrated book, David Bainbridge recounts how legends like these gradually gave rise to the modern science of paleontology, and how this pioneering discipline has reshaped our view of the natural world.

Bainbridge takes readers from ancient Greece to the eighteenth century, when paleontology began to coalesce into the scientific field we know today, and discusses how contemporary paleontologists use cutting-edge technologies to flesh out the discoveries of past and present. He brings to life the stories and people behind some of the greatest fossil finds of all time, and explains how paleontology has long straddled the spheres of science and art. Bainbridge also looks to the future of the discipline, discussing how the rapid recovery of DNA and other genetic material from the fossil record promises to revolutionize our understanding of the origins and evolution of ancient life.

This panoramic book brings together stunning illustrations ranging from early sketches and engravings to eye-popping paleoart and high-tech computer reconstructions.

Travels with Trilobites
Adventures in the Paleozoic
Andy Secher

Trilobites were some of the most successful and versatile organisms ever to exist. Among the earliest forms of complex animal life, these hard-shelled marine invertebrates inhabited the primal seas of the Paleozoic Era. Their march through evolutionary time began in the Lower Cambrian, some 521 million years ago, and lasted until their demise at the end of the Permian, more than 250 million years later. During this vast stretch of planetary history, these adaptable animals filled virtually every available undersea niche, evolving into more than 25,000 scientifically recognized species.

In Travels with Trilobites, Andy Secher invites readers to come along in search of the fossilized remains of these ancient arthropods. He explores breathtaking paleontological hot spots around the world—including Alnif, Morocco, on the edge of the Sahara Desert; the Sakha Republic, deep in the Siberian wilderness; and Kangaroo Island, off the coast of South Australia—and offers a behind-the-scenes look at museums, fossil shows, and life on the collectors' circuit. The book features hundreds of photographs of unique specimens drawn from Secher’s private collection, showcasing stunning fossil finds that highlight the diversity, complexity, and beauty of trilobites. Entertaining and informative, Travels with Trilobites combines key scientific information about these captivating creatures with wry, colorful observations and inside stories from one of the world’s most prolific collectors.
The Princeton Field Guide to Pterosaurs
Gregory S. Paul

The most up-to-date and authoritative illustrated guide to the marvelous flying reptiles that dominated the skies of the Mesozoic for 160 million years

Once seen by some as evolutionary dead-ends, pterosaurs were vigorous winged reptiles capable of thriving in an array of habitats and climates, including polar winters. The Princeton Field Guide to Pterosaurs transforms our understanding of these great Mesozoic archosaurs of the air. This incredible guide covers 115 pterosaur species and features stunning illustrations of pterosaurs ranging in size from swallows to small sailplanes, some with enormous, bizarre head crests and elongated beaks. It discusses the history of pterosaurs through 160 million years of the Mesozoic—including their anatomy, physiology, locomotion, reproduction, growth, and extinction—and even gives a taste of what it might be like to travel back to the Mesozoic. This one-of-a-kind guide also challenges the common image of big pterosaurs as ultralights that only soared, showing how these spectacular creatures could be powerful flappers as heavy as bears.

- Features detailed species accounts of 115 different kinds of pterosaurs, with the latest size and mass estimates
- Written and illustrated by the acclaimed researcher and artist who helped to redefine the anatomy and flight performance of pterosaurs
- Covers everything from pterosaur biology to the colorful history of pterosaur paleontology
- Includes dozens of original skeletal drawings and full-color life studies

The Story of Evolution in 25 Discoveries
The Evidence and the People Who Found It
Donald R. Prothero

The theory of evolution unites the past, present, and future of living things. It puts humanity’s place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing.

In The Story of Evolution in 25 Discoveries, Donald R. Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution. In twenty-five vignettes, he recounts the dramatic stories of the people who made crucial discoveries, placing each moment in the context of what it represented for the progress of science. He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution, following figures from Darwin to lesser-known researchers as they unlock the mysteries of the fossil record, the earth, and the universe. The book also features the stories of animal species strange and familiar, including humans—and our ties to some of our closest relatives and more distant cousins. Prothero’s wide-ranging tales showcase awe-inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works.

Brisk and entertaining while firmly grounded in fundamental science, The Story of Evolution in 25 Discoveries is a captivating read for anyone curious about the evidence for evolution and what it means for humanity.
**Extinction**

*Evolution and the End of Man*

**Michael Boulter**

Sixty-five million years ago the dinosaurs were destroyed in a mass extinction that remains unexplained. Out of that devastation, new life developed and the world regained its equilibrium. Until now. Employing radically new perspectives on the science of life, scientists are beginning to uncover signs of a similar event on the horizon: the end of man.

In telling the story of the last sixty-five million years, Michael Boulter reveals extraordinary new insights that scientists are only now beginning to understand about the fossil record, the rise and fall of species, and the nature of life. According to Boulter, nature is a self-organizing system in which the whole is more important than its parts. The system is self-correcting, and one of its tools is extinction. If the system is disrupted, it will do what it must to restore balance.

This book is a thoroughly researched introduction to the new developments in the science of life and a chilling account of the effects that humans have had on the planet. The world will adapt and survive; humanity most probably will not.

**Dinosaurs**

*The Textbook*

**Spencer G. Lucas**

Geared toward a broad variety of students, *Dinosaurs: The Textbook* offers a concise and lucid presentation of the core biological and geological concepts of dinosaur science. Revised throughout to reflect recent fossil discoveries and the current scientific consensus, this seventh edition details the evolution, phylogeny, and classification of various dinosaur species while modeling the best approach for navigating new and existing research.

Spencer G. Lucas takes readers through the major taxonomic groups, including theropods, sauropodomorphs, ornithopods, ceratopsians, pachycephalosaurs, stegosaurs, and ankylosaurs. He also examines the behavior and extinction of the dinosaurs, their biological relationship to birds, and their representation (or misrepresentation) in art, literature, film, and other forms of popular culture.

This seventh edition of the leading text for introductory courses on dinosaurs incorporates comprehensive updates based on the latest research. Lucas highlights how dinosaur science is rapidly evolving, exploring how new discoveries, methods, and ideas are expanding the frontiers of knowledge. The book features cutting-edge and scientifically rigorous illustrations by leading paleoartists. It also includes extensive and reader-friendly end-of-chapter summary tools, review questions, a detailed glossary, a dinosaur dictionary, and a comprehensive index.
Penguins
The Ultimate Guide Second Edition
Tui De Roy, Mark Jones, Julie Cornthwaite

An acclaimed photographic guide to these marvelous and enigmatic birds—now in a new, updated edition

Penguins are perhaps the most beloved birds. On land, their behavior appears so humorous and expressive that we can be excused for attributing to them moods and foibles similar to our own. Few realize how complex and mysterious their private lives truly are, as most of their existence takes place far from our prying eyes, hidden beneath the ocean waves. Now in a new, updated edition, this stunningly illustrated book provides a unique look at these extraordinary creatures and the cutting-edge science that is helping us to better understand them. Featuring more than 400 breathtaking photos, this is the ultimate guide to all 18 species of penguins, including those with retiring personalities or nocturnal habits that tend to be overlooked and rarely photographed. This revised second edition features updated scientific information and some spectacular new photographs.

Penguins is the most ambitious book to date by Tui De Roy, Mark Jones, and Julie Cornthwaite. Their travels, spanning more than two decades, have seen them crisscross the southern hemisphere to virtually everywhere that penguins are found, from the sun-baked lava shores of the Galápagos to some of the remotest subantarctic islands, as well as all around the Antarctic continent, where Emperor penguins breed on the deep-frozen sea.

A book that no bird enthusiast or armchair naturalist should do without, Penguins includes discussions of penguin conservation, informative species profiles, fascinating penguin facts, and tips on where to see penguins in the wild.

• Covers all 18 species of the world’s penguins
• Features more than 400 stunning photos
• Explores the latest science on penguins and their conservation
• Includes informative species profiles and fascinating penguin facts

The World Atlas of Trees and Forests
Exploring Earth’s Forest Ecosystems
Herman Shugart, Peter White, Sassan Saatchi, Jérôme Chave

A marvelously illustrated look at the world’s diverse forests and their ecosystems

The earth’s forests are havens of nature supporting a diversity of life. Shaped by climate and geography, these vast and dynamic wooded spaces offer unique ecosystems that shelter complex and interdependent webs of flora, fungi, and animals. The World Atlas of Trees and Forests offers a beautiful introduction to what forests are, how they work, how they grow, and how we map, assess, and conserve them.

• Provides the most wide-ranging coverage of the world’s forests available
• Takes readers beneath the breathtaking variety of wooded canopies that span the globe
• Profiles a wealth of tree species, with enlightening and entertaining natural-history highlights along the way
• Features stunning color photos, maps, and graphics
• Draws on the latest cutting-edge research and technology, including satellite imagery
Insectpedia
A Brief Compendium of Insect Lore
Eric R. Eaton, Amy Jean Porter

A fun and fact-filled A–Z treasury for the insect lover in all of us

Insectpedia introduces you to the wonders of the insect world while inviting you to make discoveries of your own. Featuring dozens of entries on topics ranging from murder hornets and the “insect apocalypse” to pioneering entomologists such as Margaret James Strickland Collins and Douglas Tallamy, this beautifully illustrated, pocket-friendly encyclopedia dispels many common myths about insects while offering new perspectives on the vital relationships we share with these incredible creatures.

This entertaining collection celebrates the long and storied history of entomology, highlights our dependence on insects for food and ecosystem services, and explains the meaning behind various entomological terms. With Eric Eaton as your guide, you will circle the globe in search of African Toktokkies and Australian beer bottle beetles, and witness the peculiar spectacle of cricket fighting in Asia. Profiles of influential figures in entomology provide insights into the curious minds that animate this extraordinarily broad field of scientific inquiry, while the book’s portable size makes it the perfect travel companion no matter where your own entomological adventures may lead you.

With captivating illustrations by Amy Jean Porter, Insectpedia is an engaging blend of insect facts and folklore that will inspire anyone who delights in the marvels of nature.

- Features a real cloth cover with an elaborate foil-stamped design

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Dragonflies and Damselflies
A Natural History
Dennis Paulson

A lavishly illustrated introduction to the world’s dragonflies and damselflies

Dragonflies and damselflies are often called birdwatchers’ insects. Large, brightly colored, active in the daytime, and displaying complex and interesting behaviors, they have existed since the days of the dinosaurs, and they continue to flourish. Their ancestors were the biggest insects ever, and they still impress us with their size, the largest bigger than a small hummingbird. There are more than 6,000 odonate species known at present, and you need only visit any wetland on a warm summer day to be enthralled by their stunning colors and fascinating behavior. In this lavishly illustrated natural history, leading dragonfly expert Dennis Paulson offers a comprehensive, accessible, and appealing introduction to the world’s dragonflies and damselflies.

The book highlights the impressive skills and abilities of dragonflies and damselflies—superb fliers that can glide, hover, cruise, and capture prey on the wing. It also describes their arsenal of tactics to avoid predators, and their amazing sex life, including dazzling courtship displays, aerial mating, sperm displacement, mate guarding, and male mimicry.

Dragonflies and Damselflies includes profiles of more than fifty of the most interesting and beautiful species from around the world. Learn about the Great Cascade Damsel, which breeds only at waterfalls, the mesmerizing flight of Blue-winged Helicopters, and how the larva of the Common Sanddragon can burrow into sand as efficiently as a mole.

Combining expert text and excellent color photographs, this is a must-have guide to these remarkable insects.

- A lavishly illustrated, comprehensive, and accessible natural history that reveals the beauty and diversity of one of the world’s oldest and most popular insect groups
- Offers a complete guide to the evolution, life cycles, biology, anatomy, behavior, and habitats of dragonflies and damselflies
- Introduces the 39 families of dragonflies and damselflies through exemplary species accounts
- Features tips on field observation and lab research, and information on threats and conservation

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How Birds Evolve
What Science Reveals about Their Origin, Lives, and Diversity
Douglas J. Futuyma

A marvelous journey into the world of bird evolution

How Birds Evolve explores how evolution has shaped the distinctive characteristics and behaviors we observe in birds today. Douglas Futuyma describes how evolutionary science illuminates the wonders of birds, ranging over topics such as the meaning and origin of species, the evolutionary history of bird diversity, and the evolution of avian reproductive behaviors, plumage ornaments, and social behaviors.

In this multifaceted book, Futuyma examines how birds evolved from nonavian dinosaurs and reveals what we can learn from the "family tree" of birds. He looks at the ways natural selection enables different forms of the same species to persist, and discusses how adaptation by natural selection accounts for the diverse life histories of birds and the rich variety of avian parenting styles, mating displays, and cooperative behaviors. He explains why some parts of the planet have so many more species than others, and asks what an evolutionary perspective brings to urgent questions about bird extinction and habitat destruction. Along the way, Futuyma provides an insider's perspective on how biologists practice evolutionary science, from studying the fossil record to comparing DNA sequences among and within species.

A must-read for bird enthusiasts and curious naturalists, How Birds Evolve shows how evolutionary biology helps us better understand birds and their natural history, and how the study of birds has informed all aspects of evolutionary science since the time of Darwin.

How Birds Live Together
Colonies and Communities in the Avian World
Marianne Taylor

A beautifully illustrated exploration of the ways birds cohabit

Featuring dramatic and delightful wild bird colonies and communities, How Birds Live Together offers a broad overview of social living in the avian world. From long-established seabird colonies that use the same cliffs for generations to the fast-shifting dynamics of flock formation, leading wildlife writer Marianne Taylor explores the different ways birds choose to dwell together.

Through fascinating text, color photos, maps, and other graphics, Taylor examines the advantages of avian sociality and social breeding. Chapters provide detailed information on diverse types of bird colonies, including those species that construct single-family nests close together in trees; those that share large, communal nests housing multiple families; those that nest in tunnels dug into the earth; those that form exposed colonies on open ground and defend them collectively, relying on ferocious aggression; those that live communally on human-made structures in towns and cities; and more. Taylor discusses the challenges, benefits, hazards, and social dynamics of each style of living, and features a wealth of species as examples.

Showcasing colonies from the edge of Scotland and the tropical delta of the Everglades to the Namib Desert in Africa, How Birds Live Together gives bird enthusiasts a vivid understanding of avian social communities.
Hummingbirds
A Celebration of Nature’s Jewels
Glenn Bartley, Andy Swash, Patricia Zurita

A stunningly illustrated guide to the wonderful world of hummingbirds

With their glorious colors, glittering iridescence, astonishing powers of flight, and many characteristics unique in the world of birds, hummingbirds are extraordinary—true jewels of nature. This beautiful book is a celebration of all aspects of hummingbirds and their world. It features hundreds of the most spectacular photographs of hummingbirds ever taken, exquisite illustrations, and a lively, readable text that presents the latest scientific information and includes up-to-date details about every species.

A familiar sight across much of the Americas, hummingbirds have long captured the imagination and played an important part in myths, legends, and other aspects of human culture. Today, hummingbirds are among the most popular of all birds, sought after by serious and casual birders alike. They inspire questions in anyone lucky enough to see them. How can they fly like that? Why are they so colorful? How many are there? Where and how do they live? How do they survive? This book answers these and many other questions, providing an enlightening and enjoyable guide to hummingbirds that can only deepen their wonder.

• A definitive yet accessible account of all aspects of hummingbird life
• More than 540 spectacular color photographs, illustrating all 101 hummingbird genera and over two-thirds of the world’s 369 species
• Specially commissioned illustrations revealing details of anatomy and behavior
• Meticulously researched facts and figures on status, population, distribution, and conservation designations of all the world’s hummingbirds

The Boundaries of Human Nature
The Philosophical Animal from Plato to Haraway
Matthew Calarco

Are animals capable of wonder? Can they be said to possess language and reason? What can animals teach us about how to live well? How can they help us to see the limitations of human civilization? Is it possible to draw firm distinctions between humans and animals? And how might asking and answering questions like these lead us to rethink human-animal relations in an age of catastrophic ecological destruction?

In this accessible and engaging book, Matthew Calarco explores key issues in the philosophy of animals and their significance for our contemporary world. He leads readers on a spirited tour of historical and contemporary philosophy, ranging from Plato to Donna Haraway and from the Cynics to the Jains. Calarco unearths surprising insights about animals from a number of philosophers while also underscoring ways in which the philosophical tradition has failed to challenge the dogma of human-centeredness. Along the way, he indicates how mainstream Western philosophy is both complemented and challenged by non-Western traditions and noncanonical theories about animals. Throughout, Calarco uses examples from contemporary culture to illustrate how philosophical theories about animals are deeply relevant to our lives today. The Boundaries of Human Nature shows readers why philosophy can help transform not just the way we think about animals but also how we interact with them.
Crabs
A Global Natural History
Peter J. F. Davie

A richly illustrated natural history of the world’s crabs that examines their diversity, ecology, anatomy, behavior, and more

This lavishly illustrated book offers a remarkable look at the world’s crabs. More than 7,000 crab species, in 100 different families, are known today. Their unique physiology and complex behaviors have made them one of the most diverse and adaptable of all animal groups. They can thrive in the darkness of abyssal seas, on the edges of scalding hot volcanic hydrothermal vents, on sunlit coral reefs, on wave-washed rocky shores, and in tropical rain forests at the tops of mountains. They even persist in some of the harshest desert conditions. Playing a vital role in marine and coastal ecology, crabs have been identified as keystone species in habitats such as coral reefs and coastal tropical swamps.

Crabs comprises five chapters: evolutionary pathways; anatomy and physiology; ecology; reproduction, cognition, and behavior; and exploitation and conservation. Individual chapters include a variety of subtopics, each illustrated by exceptional images, and followed by numerous double full-page species’ profiles. Each profile has been chosen to emphasize remarkable and intriguing aspects of the life of these fascinating creatures. Some species may be familiar, but many are beyond anything you have probably seen before and will stretch your understanding of what a crab is.

Written by a world authority, Crabs offers an accessible overview of these fascinating crustaceans.

- More than 190 spectacular color photographs
- Accessible and well-organized chapters
- Full profiles on 42 iconic species from across the world

Spiders of North America
Sarah Rose, Eric R. Eaton

An accessible field guide to more than 500 of the most commonly found spider species in North America

Of the more than 49,000 species of spider worldwide, some 4,000 are in North America. Spiders of North America explores more than 500 of the most common and interesting spiders found in this region of the world. This richly illustrated guide begins with an overview of spiders—what they are exactly, how they can be found, how they develop, and why they are important. The book features information on all the major spider guilds: sensing web weavers, sheet web weavers, orb web weavers, space web weavers, ambush hunters, ground active hunters, other active hunters, and spider hunters. Chapters contain accessible descriptions for identifying members of each spider family, including helpful tips for distinguishing members of similar families, and details at the genus and species levels. Stunning color photographs and informative distribution maps accompany the text.

- Useful descriptions for identification of each spider family
- Stunningly detailed macro and in-situ photographs
- Information on all the major spider guilds
- Handy distribution maps
Working across Lines
Resisting Extreme Energy Extraction
Corrie Grosse

How are communities uniting against fracking and tar sands to change our energy future?

Working across Lines offers a detailed comparative analysis of climate justice coalitions in California and Idaho—two states with distinct fossil fuel histories, environmental contexts, and political cultures. Drawing on extensive ethnographic evidence from 106 in-depth interviews and three years of participant observation, Corrie Grosse investigates the ways people build effective energy justice coalitions across differences in political views, race and ethnicity, age, and strategic preferences. This book argues for four practices that are critical for movement building: focusing on core values of justice, accountability, and integrity; identifying the roots of injustice; cultivating relationships among activists; and welcoming difference. In focusing on coalitions related to energy and climate justice, Grosse provides important models for bridging divides to reach common goals. These lessons are more relevant than ever.

Urban Ecologies on the Edge
Making Manila’s Resource Frontier
Kristian Karlo Saguin

Laguna Lake, the largest lake in the Philippines, supplies Manila’s dense urban region with fish and water while operating as a sink for its stormflows and wastes. Transforming the lake to deliver these multiple urban ecological functions, however, has generated resource conflicts and contradictions that unfold unevenly across space.

In Urban Ecologies on the Edge, Kristian Karlo Saguin tracks the politics of resource flows and unpacks the narratives of Laguna Lake as Manila’s resource frontier. Provisioning the city and keeping it safe from floods are both frontier-making processes that bring together contested socioecological imaginaries, practices, and relations. Combining fieldwork and historical accounts, Saguin demonstrates how people—powerful and marginalized—interact with the state and the environment to produce the unequal landscapes of urbanization at and beyond the city’s edge.
The Accidental Ecosystem
People and Wildlife in American Cities
Peter S. Alagona

With wildlife thriving in cities, we have the opportunity to create vibrant urban ecosystems that serve both people and animals. The Accidental Ecosystem tells the story of how cities across the United States went from having little wildlife to filling, dramatically and unexpectedly, with wild creatures. Today, many of these cities have more large and charismatic wild animals living in them than at any time in at least the past 150 years. Why have so many cities—the most artificial and human-dominated of all Earth’s ecosystems—grown rich with wildlife, even as wildlife has declined in most of the rest of the world? And what does this paradox mean for people, wildlife, and nature on our increasingly urban planet?

The Accidental Ecosystem is the first book to explain this phenomenon from a deep historical perspective, and its focus includes a broad range of species and cities. Cities covered include New York City, Los Angeles, San Francisco, Pittsburgh, Austin, Miami, Chicago, Seattle, San Diego, Atlanta, Philadelphia, and Baltimore. Digging into the natural history of cities and unpacking our conception of what it means to be wild, this book provides fascinating context for why animals are thriving more in cities than outside of them. Author Peter S. Alagona argues that the proliferation of animals in cities is largely the unintended result of human decisions that were made for reasons having little to do with the wild creatures themselves. Considering what it means to live in diverse, multispecies communities and exploring how human and non-human members of communities might thrive together, Alagona goes beyond the tension between those who embrace the surge in urban wildlife and those who think of animals as invasive or as public safety hazards. The Accidental Ecosystem calls on readers to reimagine interspecies coexistence in shared habitats, as well as policies that are based on just, humane, and sustainable approaches.

Sex in City Plants, Animals, Fungi, and More
A Guide to Reproductive Diversity
Kenneth D. Frank, Jonathan Silvertown

Cities pose formidable obstacles to nonhuman life. Vast expanses of asphalt and concrete are inhospitable to plants and animals; traffic noise and artificial light disturb natural rhythms; sewage and pollutants imperil existence. Yet cities teem with life: In rowhouse neighborhoods, tiny flowers bloom from cracks in the sidewalk. White clover covers lawns, its seeds dispersed by shoes and birds. Moths flutter and spiders weave their webs near electric lights. Sparrows and squirrels feast on the scraps people leave behind. Pairs of red-tailed hawks nest on window ledges. How do wild plants and animals in urban areas find mates? How do they navigate the patchwork of habitats to reproduce while avoiding inbreeding? In what ways do built environments enable or inhibit mating?

This book explores the natural history of sex in urban bacteria, fungi, plants, and nonhuman animals. Kenneth D. Frank illuminates the reproductive behavior of scores of species. He examines topics such as breeding systems, sex determination, sex change, sexual conflict, sexual trauma, sexually transmitted disease, sexual mimicry, sexual cannibalism, aphrodisiacs, and lost sex. Frank offers a guide to urban reproductive diversity across a range of conditions, showing how understanding of sex and mating furthers the appreciation of biodiversity. He presents reproductive diversity as elegant but vulnerable, underscoring the consequences of human activity. Featuring compelling photographs of a multitude of life forms in their city habitats, this book provides a new lens on urban natural history.
So Simple a Beginning
How Four Physical Principles Shape Our Living World
Raghuveer Parthasarathy

A biophysicist reveals the hidden unity behind nature’s breathtaking complexity

The form and function of a sprinting cheetah are quite unlike those of a rooted tree. A human being is very different from a bacterium or a zebra. The living world is a realm of dazzling variety, yet a shared set of physical principles shapes the forms and behaviors of every creature in it. So Simple a Beginning shows how the emerging new science of biophysics is transforming our understanding of life on Earth and enabling potentially lifesaving but controversial technologies such as gene editing, artificial organ growth, and ecosystem engineering.

Raghuveer Parthasarathy explains how four basic principles—self-assembly, regulatory circuits, predictable randomness, and scaling—shape the machinery of life on scales ranging from microscopic molecules to gigantic elephants. He describes how biophysics is helping to unlock the secrets of a host of natural phenomena, such as how your limbs know to form at the proper places, and why humans need lungs but ants do not. Parthasarathy explores how the cutting-edge biotechnologies of tomorrow could enable us to alter living things in ways both subtle and profound.

Featuring dozens of original watercolors and drawings by the author, this sweeping tour of biophysics offers astonishing new perspectives on how the wonders of life can arise from so simple a beginning.

The Lives of Seaweeds
A Natural History of Our Planet’s Seaweeds and Other Algae
Julie A. Phillips

A richly illustrated exploration of the world’s seaweeds and algae

The Lives of Seaweeds presents an inside look at the remarkable world of seaweeds and other algae. Coming in all colors, shapes, and sizes, from unicellular and bioluminescent algae to giant kelps, seaweeds and algae are omnipresent, forming the basis of most marine food webs. They are also the most numerous photosynthetic organisms on Earth and provide seventy percent of the planet’s oxygen. Touted as the biofuel of the future, they are a cheap and nutritious food source, exhibit antiviral and antitumor properties, and play a central role in biogeochemical cycles that maintain the health of our planet.

Featuring hundreds of beautiful images, this book takes a deep dive to explore the unique traits and characteristics of seaweeds and other algae. A wealth of graphics, photos, and accessible text outlines their evolution, morphology, life histories, ecology, and uses. Offering rare insights into the algal world, The Lives of Seaweeds is essential reading for naturalists and marine life enthusiasts.
Insects and Their Beneficial Microbes
Angela E. Douglas

A comprehensive overview of symbiotic relationships between insects and microbes

Insects and Their Beneficial Microbes is an authoritative and accessible synthesis of insect associations with beneficial microorganisms. Angela Douglas distills the vast literature in entomology and microbiology, as well as the burgeoning microbiome literature, to explore the full scope of insect-microbial interactions and their applications to real-world problems in agriculture and medicine.

Douglas investigates how insects acquire and support their microbial partners, and examines how microorganisms contribute to insect nutrition, the defense against natural enemies, and the detoxification of natural allelochemicals and chemical insecticides. She analyzes how beneficial microbes can be harnessed to solve real-world problems in insect pest management, including strategies to suppress the transmission of viruses and microbial disease agents by mosquitoes and other insects. She also addresses the use of insects as biomedical models for effective microbial therapies treating a range of chronic human diseases, and considers how knowledge of insect-microbial interactions can promote the health of beneficial insects, especially in the context of environmental pollutants and climate change.

Insects and Their Beneficial Microbes provides a much-needed conceptual framework for the growing discipline of insect-microbial interactions, and offers a wealth of insights into insect symbioses from molecular, physiological, ecological, and evolutionary perspectives.

The Logic of Life
A History of Heredity
François Jacob

“The most remarkable history of biology that has ever been written.”—Michel Foucault

Nobel Prize–winning scientist François Jacob's The Logic of Life is a landmark book in the history of biology and science. Focusing on heredity, which Jacob considers the fundamental feature of living things, he shows how, since the sixteenth century, the scientific understanding of inherited traits has moved not in a linear, progressive way, from error to truth, but instead through a series of frameworks. He reveals how these successive interpretive approaches—focusing on visible structures, internal structures (especially cells), evolution, genes, and DNA and other molecules—each have their own power but also limitations. Fundamentally challenging how the history of biology is told, much as Thomas Kuhn's Structure of Scientific Revolutions did for the history of science as a whole, The Logic of Life has greatly influenced the way scientists and historians view the past, present, and future of biology.
Japan
The Natural History of an Asian Archipelago
Mark Brazil

A comprehensive, richly illustrated guide to Japan’s astonishing animals and plants—and the natural forces that have shaped them.

This richly illustrated guide is the first comprehensive and accessible introduction to the extraordinary natural history of the Japanese archipelago. It explains how Japan’s geology, geography, climate, seas and currents have forged conditions supporting a diverse range of species—from cranes, bears, eagles and monkeys to plants, butterflies, dragonflies, frogs and snakes—many of which are found nowhere else in the world. Engaging and authoritative, this book is a must-have for anyone who wants to explore or learn about Japan’s natural wonders, from the Japanese Macaque—the famous snow monkeys—to the magnificent Steller’s Eagle.

• Features more than 878 colour photographs, illustrations and maps
• Provides a lavishly illustrated introduction to many of Japan’s common and iconic mammals and birds
• Takes readers on a naturalist’s journey to the key areas of Hokkaido, Honshu, Kyushu, Shikoku and Nansei Shoto, as well as the Izu, Ogasawara and Iwo islands
• Introduces Japan’s geology, geography, topography, climate, habitats, biodiversity and much more
• Explains where and how to watch and photograph wildlife in Japan, including whales

Chimpanzee Memoirs
Stories of Studying and Saving Our Closest Living Relatives
Stephen Ross, Lydia Hopper

Chimpanzees fascinate people for many reasons. We are struck by the apes’ resemblance to humanity, as seen in their use of tools and their complex social lives, and we are moved by the threats that human activity poses to them. Our awareness of our closest living relatives testifies to the efforts of the remarkable people who study these creatures and work to protect them. What motivates someone to dedicate their lives to chimpanzees? How does that reflect on our own species?

This book brings together a range of chimpanzee experts who tell powerful personal stories about their lives and careers. It features some of the world’s preeminent primatologists—including Jane Goodall and Frans de Waal—as well as representatives of a new generation from varied backgrounds. In addition to field scientists, the book features anthropologists, biologists, psychologists, veterinarians, conservationists, and the director of a chimpanzee sanctuary. Some grew up in the English countryside, others in villages in Congo; some first encountered chimpanzees in a zoo, others in the forests surrounding their homes. All are united by a common purpose: to study and understand chimpanzees in order to protect them in the wild and care for them in zoos and sanctuaries. Contributors share what inspired them, what shaped their career choices, and what motivates them to strive for solutions to the many challenges that chimpanzees face today.
Negative Ecologies
Fossil Fuels and the Discovery of the Environment
David Bond

So much of what we know of clean water, clean air, and now a stable climate rests on how fossil fuels first disrupted them. Negative Ecologies is a bold reappraisal of the outsized role fossil fuels have played in making the environment visible, factual, and politically operable in North America. Following stories of hydrocarbon harm that lay the groundwork for environmental science and policy, this book brings into clear focus the dialectic between the negative ecologies of fossil fuels and the ongoing discovery of the environment. Exploring iconic sites of the oil economy, ranging from leaky Caribbean refineries to deepwater oil spills, from the petrochemical fallout of plastics manufacturing to the extractive frontiers of Canada, Negative Ecologies documents the upheavals, injuries, and disasters that have long accompanied fossil fuels and the manner in which our solutions have often been less about confronting the cause than managing the effects. This history of our present promises to re-situate scholarly understandings of fossil fuels and renovate environmental critique today. David Bond challenges us to consider what forms of critical engagement may now be needed to both confront the deleterious properties of fossil fuels and envision ways of living beyond them.

What Would Nature Do?
A Guide for Our Uncertain Times
Ruth DeFries

Not long ago, the future seemed predictable. Now, certainty about the course of civilization has given way to fear and doubt. Raging fires, ravaging storms, political upheavals, financial collapse, and deadly pandemics lie ahead—or are already here. The world feels less comprehensible and more dangerous, and no one, from individuals to businesses and governments, knows how to navigate the path forward.

Ruth DeFries argues that a surprising set of time-tested strategies from the natural world can help humanity weather these crises. Through trial and error over the eons, life has evolved astonishing and counterintuitive tricks in order to survive. DeFries details how a handful of fundamental strategies—investments in diversity, redundancy over efficiency, self-correcting feedbacks, and decisions based on bottom-up knowledge—enable life to persist through unpredictable, sudden shocks. Lessons for supply chains from a leaf’s intricate network of veins and stock market-saving “circuit breakers” patterned on planetary cycles reveal the power of these approaches for modern life. With humility and willingness to apply nature’s experience to our human-constructed world, DeFries demonstrates, we can withstand uncertain and perilous times. Exploring the lessons that life on Earth can teach us about coping with complexity, What Would Nature Do? offers timely options for civilization to reorganize for a safe and prosperous future.
A Series of Fortunate Events
Chance and the Making of the Planet, Life, and You
Sean B. Carroll

"Fascinating and exhilarating—Sean B. Carroll at his very best."—Bill Bryson, author of The Body: A Guide for Occupants

From acclaimed writer and biologist Sean B. Carroll, a rollicking, awe-inspiring story of the surprising power of chance in our lives and the world

Why is the world the way it is? How did we get here? Does everything happen for a reason or are some things left to chance? Philosophers and theologians have pondered these questions for millennia, but startling scientific discoveries over the past half century are revealing that we live in a world driven by chance. A Series of Fortunate Events tells the story of the awesome power of chance and how it is the surprising source of all the beauty and diversity in the living world.

Like every other species, we humans are here by accident. But it is shocking just how many things—any of which might never have occurred—had to happen in certain ways for any of us to exist. From an extremely improbable asteroid impact, to the wild gyrations of the Ice Age, to invisible accidents in our parents' gonads, we are all here through an astonishing series of fortunate events. And chance continues to reign every day over the razor-thin line between our life and death.

This is a relatively small book about a really big idea. It is also a spirited tale. Drawing inspiration from Monty Python, Kurt Vonnegut, and other great thinkers, and crafted by one of today's most accomplished science storytellers, A Series of Fortunate Events is an irresistibly entertaining and thought-provoking account of one of the most important but least appreciated facts of life.

Fantastic Fossils
A Guide to Finding and Identifying Prehistoric Life
Donald R. Prothero

Nothing fills us with a sense of wonder like fossils. What looks at first like a simple rock is in fact a clue that reveals the staggering diversity of ancient environments, the winding pathways of evolution, and the majesty of a vanished earth. But as much as one might daydream of digging a hole in the backyard and finding a Tyrannosaurus, only a few places contain these buried treasures, and when a scientist comes across a remnant of prehistoric life, great care must be taken. What do budding paleontologists need to know before starting their search?

In Fantastic Fossils, Donald R. Prothero offers an accessible, entertaining, and richly illustrated guide to the paleontologist's journey. He details the best places to look for fossils, the art of how to find them, and how to classify the major types. Prothero provides expert wisdom about typical fossils that an average person can hope to collect and how to hunt fossils responsibly and ethically. He also explores the lessons that both common and rarer discoveries offer about paleontology and its history, as well as what fossils can tell us about past climates and present climate change. Captivating illustrations by the paleoartist Mary Peesis Williams bring to life hundreds of important specimens. Offering valuable lessons for armchair enthusiasts and paleontology students alike, Fantastic Fossils is an essential companion for all readers who have ever dreamed of going in search of traces of a lost world.
Great Adaptations
Star-Nosed Moles, Electric Eels, and Other Tales of Evolution’s Mysteries Solved
Kenneth Catania

"The irresistible enthusiasm of Great Adaptations couldn’t come at a better time."—David P. Barash, Wall Street Journal

"Be very amazed."—Carl Safina, author of Beyond Words and Becoming Wild

How one scientist unlocked the secrets behind some of nature’s most astounding animals

From star-nosed moles that have super-sensing snouts to electric eels that paralyze their prey, animals possess unique and extraordinary abilities. In Great Adaptations, Kenneth Catania presents an entertaining and engaging look at some of nature’s most remarkable creatures. Telling the story of his biological detective work, Catania sheds light on the mysteries behind the behaviors of tentacled snakes, tiny shrews, zombie-making wasps, and more. He shows not only how studying these animals can provide deep insights into how life evolved, but also how scientific discovery can be filled with adventure and fun.

Beginning with the star-nosed mole, Catania reveals what the creature’s nasal star is actually for, and what this tells us about how brains work. He explores how the deceptive hunting strategy of tentacled snakes leads prey straight to their mouths, how eels use electricity to control other animals, and why emerald jewel wasps make zombies out of cockroaches. He also solves the enigma of worm grunting—a traditional technique in which earthworms are enticed out of the ground—by teaming up with professional worm grunters. Catania demonstrates the merits of approaching science with an open mind, considers the role played by citizen scientists, and illustrates that most animals have incredible, hidden abilities that defy our imagination.

Examining some strange and spectacular creatures, Great Adaptations offers a wondrous journey into nature’s grand designs.

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

A thrilling tour of the sea’s most extreme species, coauthored by one of the world’s leading marine scientists

The ocean teems with life that thrives under difficult situations in unusual environments. The Extreme Life of the Sea takes readers to the absolute limits of the ocean world—the fastest and deepest, the hottest and oldest creatures of the oceans. It dives into the icy Arctic and boiling hydrothermal vents—and exposes the eternal darkness of the deepest undersea trenches—to show how marine life thrives against the odds. This thrilling book brings to life the sea’s most extreme species, and tells their stories as characters in the drama of the oceans. Coauthored by Stephen Palumbi, one of today’s leading marine scientists, The Extreme Life of the Sea tells the unforgettable tales of some of the most marvelous life forms on Earth, and the challenges they overcome to survive. Modern science and a fluid narrative style give every reader a deep look at the lives of these species.

The Extreme Life of the Sea shows you the world’s oldest living species. It describes how flying fish strain to escape their predators, how predatory deep-sea fish use red searchlights only they can see to find and attack food, and how, at the end of her life, a mother octopus dedicates herself to raising her batch of young. This wide-ranging and highly accessible book also shows how ocean adaptations can inspire innovative commercial products—such as fan blades modeled on the flippers of humpback whales—and how future extremes created by human changes to the oceans might push some of these amazing species over the edge.
Florapedia
A Brief Compendium of Floral Lore
Carol Gracie, Amy Jean Porter

A delightful illustrated treasury of botanical facts and fancy

Florapedia is an eclectic A–Z compendium of botanical lore. With more than 100 enticing entries—on topics ranging from achlorophyllous plants that use a fungus as an intermediary to obtain nutrients from other plants to zygomorphic flowers that admit only the most select pollinators—this collection is a captivating journey into the realm of botany.

Writing in her incomparably engaging style, Carol Gracie discusses remarkable plants from around the globe, botanical art and artists, early botanical explorers, ethnobotanical uses of plants, botanical classification and terminology, the role of plants in history, and more. She shares illuminating facts about van Gogh’s sunflowers and reveals how a hallucinogenic weed left its enduring mark on the early history of the Jamestown colony. Gracie describes the travels of John and William Bartram—father and son botanists and explorers who roamed widely in early America in search of plants—and delves into the miniature ecosystems entangled in Spanish moss. The book’s convenient size allows for it to be tucked into a pocket or bag, making it the perfect companion on your own travels.

With charming drawings by Amy Jean Porter, Florapedia is the ideal gift book for the plant enthusiast in your life and a rare pleasure for anyone interested in botanical art, history, medicine, or exploration.

- Features a real cloth cover with an elaborate foil-stamped design

Birdpedia
A Brief Compendium of Avian Lore
Christopher W. Leahy, Abby McBride

A captivating A–Z treasury about birds and birding

Birdpedia is an engaging illustrated compendium of bird facts and birding lore. Featuring nearly 200 entries—on topics ranging from plumage and migration to birds in art, literature, and folklore—this enticing collection is brimming with wisdom and wit about all things avian.

Christopher Leahy sheds light on “hawk-watching,” “twitching,” and other rituals from the sometimes mystifying world of birding that entail a good deal more than their names imply. He explains what kind of bird’s nests you can eat, why mocking birds mock, and many other curiosities that have induced otherwise sane people to peer into treetops using outrageously expensive optical equipment. Leahy shares illuminating insights about pioneering ornithologists such as John James Audubon and Florence Bailey, and describes unique bird behaviors such as anting, caching, duetting, and mobbing. He discusses avian fossils, the colloquial naming of birds, the science and history of ornithology, and more. The book’s convenient size makes it the perfect traveling companion to take along on your own avian adventures.

With charming illustrations by Abby McBride, Birdpedia is a marvelous mix of fact and fancy that is certain to delight seasoned birders and armchair naturalists alike.

- Features a real cloth cover with an elaborate foil-stamped design

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Nature / Animals
Pedia Books
Princeton University Press
Treepedia
A Brief Compendium of Arboreal Lore
Joan Maloof, Maren Westfall

A captivating A–Z treasury for the tree hugger in all of us

Treepedia is an entertaining and fact-filled illustrated compendium of tree lore. Featuring nearly 100 entries—on topics ranging from tree ecology and conservation to the role of trees in religion, literature, art, and movies—this enticing collection is a celebration of all things arboreal.

In this charming book, Joan Maloof explains the difference between a cedar and a cypress, and reveals where to find the most remarkable trees on the planet. She tells the story behind the venerable Bodhi Tree, and describes peculiar species like baobabs and Fitzroya. Maloof profiles legendary conservationists such as Julia "Butterfly" Hill, John Muir, Wangari Maathai, and Ken Wu. She discusses reforestation, proforestation, emerald ash borers, the ents from *The Lord of the Rings*, culturally modified trees, the ill-fated and controversial Redwood Summer, and much more. The book's portable size makes it the perfect travel companion no matter where your love of the forest may lead you.

With enchanting illustrations by Maren Westfall, Treepedia is a fun and informative book that is guaranteed to inspire anyone who has ever enjoyed a walk in the woods.

- Features a real cloth cover with an elaborate foil-stamped design
- Uses 100 percent recycled, uncoated, wood-free paper

Fungipedia
A Brief Compendium of Mushroom Lore
Lawrence Millman, Amy Jean Porter

"This little book is big fun."—Michael Pollan

An illustrated mini-encyclopedia of fungal lore, from John Cage and Terence McKenna to mushroom sex and fairy rings

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.

Combining ecological, ethnographic, historical, and contemporary knowledge, author and mycologist Lawrence Millman discusses how mushrooms are much more closely related to humans than to plants, how they engage in sex, how insects farm them, and how certain species happily dine on leftover radiation, cockroach antennae, and dung. He explores the lives of individuals like African American scientist George Washington Carver, who specialized in crop diseases caused by fungi; Beatrix Potter, creator of *Peter Rabbit*, who was prevented from becoming a professional mycologist because she was a woman; and Gordon Wasson, a J. P. Morgan vice-president who almost single-handedly introduced the world to magic mushrooms. Millman considers why fungi are among the most significant organisms on our planet and how they are currently being affected by destructive human behavior, including climate change.

With charming drawings by artist and illustrator Amy Jean Porter, Fungipedia offers a treasure trove of scientific and cultural information. The world of mushrooms lies right at your door—be amazed!

- Features a real cloth cover with an elaborate foil-stamped design
**Britain's Birds**

An Identification Guide to the Birds of Great Britain and Ireland
Second Edition, fully revised and updated

Rob Hume, Robert Still, Andy Swash, Hugh Harrop, David Tipling

A new, improved and thoroughly updated edition of the bestselling photographic guide—the only one to cover every bird, in every plumage, ever recorded in Britain and Ireland

A bestselling guide since it was first published, *Britain's Birds* has quickly established itself as the go-to photographic identification guide to the birds of Great Britain and Ireland—the most comprehensive, up-to-date, practical and user-friendly book of its kind. Acclaimed by birdwatchers of all kinds, from the beginner to the most experienced, the guide has now been thoroughly revised and updated to make it even better than before. Combining the finest of identification guide content and presentation, this eagerly awaited second edition preserves the best of the first edition while covering twelve newly recorded species and offering a host of improvements that make identification easier.

- Provides comprehensive coverage of all the birds ever recorded in Britain and Ireland
- Describes and illustrates all plumages likely to be encountered
- Features more than 3,200 stunning photographs carefully selected to show the birds as you really see them
- Outlines simple steps to help you identify any bird you see
- Presents simple and accurate comparisons of similar and difficult species

New features include:

- Coverage of 12 new species recorded since the first edition plus revisions to reflect the latest taxonomy
- Coverage of all subspecies
- Improved identification aids, including more than 400 new photos, enhanced photo annotations and many redesigned plates
- Fully revised species accounts, including the latest information on identification features, status, numbers, geographical range and date ranges for all plumages that may be seen during only part of the year

**British Birds**

A Pocket Guide

Rob Hume, Robert Still, Andy Swash, Hugh Harrop, David Tipling

A carefully designed and lavishly illustrated photographic guide

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.

- Covers the 246 birds most likely to be seen, plus another 30 or so scarce but regular migrants
- Carefully designed to be user-friendly and accessible
- Lavishly illustrated with more than 1,000 stunning colour photographs
- Easy to use and written in plain English
Flight Identification of European Passerines and Select Landbirds
An Illustrated and Photographic Guide
Tomasz Cofta, Michal Skakuj

A richly illustrated, state-of-the-art field guide for identifying European passerines in flight—the first of its kind

Opening up new frontiers in birdwatching, this is the first field guide to focus specifically on the identification of European passerines and related landbirds in flight. Showcasing 850 stunning and remarkably lifelike colour illustrations from acclaimed bird artist Tomasz Cofta, produced using the latest digital technology, backed up with more than 2,400 photographs carefully selected to show typical flight profiles, it provides detailed and unsurpassed coverage of 205 European passerines and 32 near-passerines. This cutting-edge book brings a new dimension to birdwatching, the concise and authoritative species accounts presenting novel yet essential information on the flight manner of individual birds and the structure and behaviour of flocks—features that are key to identification. It also includes precise transcriptions of flight calls, supported by sonograms, and links to a unique collection of hundreds of online audio recordings. Beautifully designed and written in an accessible style, this book will appeal to birdwatchers of all abilities. It presents the latest knowledge on flight identification of a group of birds that is poorly covered in the literature and is therefore a must-have for all professional ornithologists and scientists involved in migration studies.

- The first field guide to flight identification of European passerines and related landbirds
- Covers 205 European passerines and 32 near-passerines
- Features 850 stunning colour illustrations
- Includes more than 2,400 photos showing typical profiles of each species in flight
- Provides detailed information on flight calls, with links to online recordings

Europe's Birds
An Identification Guide
Andy Swash, Rob Hume, Hugh Harrop, Robert Still

The most comprehensive single-volume photographic guide to Europe’s birds ever produced—from the authors of the acclaimed Britain’s Birds

Covering more than 900 species, and illustrated with 4,700 photographs, Europe’s Birds is the most comprehensive, authoritative and ambitious single-volume photographic guide to Europe’s birds ever produced. Easy-to-use, practical and accessible, this guide provides the information necessary for birdwatchers of all abilities to name any bird they see. Detailed descriptions cover the birds in all their plumages—male, female, breeding, non-breeding, adult and immatures, as well as distinctive subspecies. The clear text covers all aspects of identification, including moult and vocalizations, and provides details on range, status and habitat. An unrivalled selection of photographs, chosen to be as informative as possible, makes this a beautiful book to enjoy, as well as an up-to-date and essential source of identification knowledge.

Europe’s Birds is produced by the same team that created Britain’s Birds, which has been described as “without doubt the best photo guide on the market” (Andy Stoddart, Rare Bird Alert). The authors include top-class wildlife photographers, writers and editors, and an imaginative, highly skilled designer. All are experienced birdwatchers themselves, who know what is needed in an identification guide for birdwatchers living or travelling in Europe.

- Illustrates all 928 species recorded in Europe, including established introductions
- Features 4,700 stunning photographs showing the birds as you really see them
- Focuses on identification, covering all plumages and subspecies
- Provides detailed comparison of similar and difficult species
- Includes details of moult, vocalizations, status and favoured habitats
- Contains 540 maps, prepared in association with BirdLife International
Britain's Hoverflies
A Field Guide - Revised and Updated Second Edition
Stuart Ball, Roger Morris

Britain's Hoverflies is a beautifully illustrated photographic field guide to the hoverflies of Britain, focusing on the species that can be most readily identified. It is the perfect companion for wildlife enthusiasts, professional ecologists and anyone else with an interest in this fascinating group of insects, and is designed to appeal to beginners and experts alike.

Accessible, authoritative and easy to use, this book contains hundreds of remarkable photographs of the various life stages of those species that can be identified by eye or with a magnifying glass, with coverage of at least one representative from each of the British genera. It also features an essential guide to the hoverfly tribes. Detailed species accounts summarize the species’ status, highlight the key identification features, provide notes on behaviour and habitat requirements and include flight-period charts and up-to-date distribution maps. Sections on hoverfly biology, where and when to look for hoverflies, legislation and conservation, photographing hoverflies, recording hoverflies and gardening for hoverflies are also included.

This fully revised and updated second edition:
- Features more than 650 stunning colour photographs
- Provides detailed information for the 167 species that can be most readily identified, including at least one species from each of the 68 genera recorded in Britain
- Includes a complete list of the 283 hoverfly species recorded in Britain to date, with an indication of how difficult each is to identify
- A guide to spider families, based on features recognizable in the field, focussing on body shape and other characteristics, as well as separate guides to webs and egg-sacs
- Detailed accounts and more than 700 stunning photographs highlight key identification features for each genus and species, and include information on status, behaviour and habitats
- Up-to-date distribution maps, and charts showing adult seasonality
- Introductory chapters on the biology of spiders, and where, when and how to find them, including equipment needed in the field
- A complete list of the spiders recorded in Britain, indicating the ease of identification as well as rarity and conservation status
- Information on how to record spiders and make your records count, and guidance on how to take your interest further
- New to this edition: coverage of nine species new to Britain, updated species information and distribution maps, identification guides to spider families and distinctive species, and the latest species checklist

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Nature / Insects & Spiders
WILDGuides
Princeton University Press

Britain's Spiders
A Field Guide – Fully Revised and Updated Second Edition
Lawrence Bee, Geoff Oxford, Helen Smith, Nick Baker

A comprehensively updated edition of an identification guide that was named a Guardian Best Nature Book of the Year

Now in a comprehensively revised and updated new edition, Britain's Spiders is a guide to all 38 of the British families, focussing on spiders that can be identified in the field. Illustrated with a remarkable collection of photographs, it is designed to be accessible to a wide audience, including those new to spider identification. This book pushes the boundaries of field identification for this challenging group, combining information on features that can be seen with the naked eye or a hand lens with additional evidence from webs, egg sacs, behaviour, phenology, habitats and distributions. Individual accounts cover 404 species—all of Britain’s “macro” spiders and the larger money spiders, with the limitations to field identification clearly explained. This new edition includes nine species new to Britain, many recent name changes, updated distribution maps and species information, new guides to help identify spider families and distinctive species, and the latest species checklist.

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2020
Nature / Insects & Spiders
WILDGuides of Britain & Europe
Princeton University Press
Britain's Insects
A Field Guide to the Insects of Great Britain and Ireland
Paul D. Brock

The go-to photographic guide to Britain and Ireland’s insects

Britain's Insects is an innovative, up-to-date, carefully designed and beautifully illustrated field guide to Britain and Ireland's twenty-five insect orders, concentrating on popular groups and species that can be identified in the field. Featuring superb photographs of live insects, the guide covers the key aspects of identification and provides information on status, distribution, seasonality, habitat, food plants and behaviour. It also offers insight into the life history of the various insect groups, many of which are truly amazing. This is the go-to guide for entomologists, naturalists, gardeners, wildlife photographers and anyone else interested in insects, whatever their level of knowledge.

• More than 2,600 stunning photographs, carefully selected to show key identification features
• Photo guides to every insect order, covering 316 families and almost 850 genera
• Covers 1,673 species, of which 1,476 are illustrated
• Designed to allow easy, accurate comparison of similar species
• Up-to-date distribution maps and charts summarizing adult seasonality
• QR codes that link to sound recordings of grasshoppers and crickets
• Information on photographing and recording insects to help conservation

Britain's Dragonflies
A Field Guide to the Damselflies and Dragonflies of Great Britain and Ireland - Fully Revised and Updated Fourth Edition
Dave Smallshire, Andy Swash

A fully revised, comprehensive photographic field guide to the dragonflies of Britain and Ireland

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. The book focuses on the identification of both adults and larvae, highlighting the key features. Detailed species profiles provide concise information on identification, distribution, flight periods, behaviour, habitat, status and conservation. Other sections cover biology; how to watch, photograph, record and monitor Dragonflies; conservation status and legislation; and introduced exotic species.

This redesigned, updated and expanded edition features:

• Beautiful colour plates showing males, females, immatures and all colour forms for every species
• Over 500 stunning photographs, many of which are new, and more than 550 illustrations
• Up-to-date species profiles and distribution maps
• Detailed, easy-to-use identification charts for adults and larvae
Britain's Orchids
A Field Guide to the Orchids of Great Britain and Ireland
Sean Cole, Mike Waller

An accessible, comprehensive and beautifully illustrated guide—the only one to cover all the orchids found in Britain and Ireland

Covering all fifty-one native species and twelve of uncertain origin, as well as hybrids and variants, Britain's Orchids is an engaging, intuitive and in-depth identification guide to all the orchids of Britain and Ireland at all stages of development, from first emergence to setting seed. Drawing on the authors' extensive field experience and the latest scientific research, the book uses multiple techniques to help both beginner and more advanced orchid enthusiasts to identify even the most difficult plants. It is beautifully illustrated with watercolour paintings by talented artist Sarah Stribbling, and features more than 1,200 evocative, instructive and detailed photographs. Orchids have long fired the imagination with their beauty and rarity. This book aims to ignite or increase your passion for these special plants, and for the conservation of their varied habitats—from remote mountaintops to urban wild spaces.

- The first book to cover all the species at all stages of development, as well as all subspecies, varieties and confirmed hybrids
- Lavishly illustrated with 98 beautiful watercolour plates
- More than 1,200 stunning photos showing the orchids in their natural settings and highlighting key identification features
- Simple, step-by-step system for identifying almost any orchid you encounter
- Up-to-date distribution maps and seasonal charts showing when each species can be seen in its various stages of development

Sean Cole is a field naturalist who has been studying orchids for more than twenty years, with special interests in identification, taxonomy and pollination. He has published many articles on British orchids, including his specialty, the Ghost Orchid. Mike Waller is an ecologist and botanist who specializes in European orchids. He has worked for the Royal Society for the Protection of Birds, the Natural History Museum in London, the London Wildlife Trust and Plantlife.

Britain's Mammals Updated Edition
A Field Guide to the Mammals of Great Britain and Ireland
Dominic Couzens, Andy Swash, Robert Still, Jon Dunn

A comprehensive photographic field guide to the mammals of Great Britain and Ireland

Britain's Mammals is a comprehensive and beautifully designed photographic field guide to all the mammals recorded in the wild in Great Britain and Ireland in recent times—including marine mammals, bats and introduced species that have bred. The book features 500 stunning photographs and incorporates invaluable tips and suggestions to help you track down and identify even the most difficult species.

This easy-to-use book provides an introduction to the different types of mammal. Concise species accounts focus on identification, and include up-to-date information on sounds, habitat, food, habits, breeding behaviour, and population and status, as well as descriptions of key field signs—including tracks, droppings and nests—that give away the presence of mammals even when they are out of sight. Guidance is also provided on ways of studying and observing mammals—including small-mammal trapping, bat detecting and whale watching. In addition, the book contains sections on mammal conservation, legislation and further sources of useful information. Handy and informative, this guide is the ideal companion for anyone interested in watching mammals in Great Britain and Ireland.

- Comprehensive coverage of all 126 mammal species recorded
- 500 superb colour photographs carefully selected to show key identification features
- Up-to-date distribution maps
- Detailed illustrations of tracks, dentition and other identification features
- Helpful tips for identifying tracks and other signs you may encounter
- Latest information on status, population, distribution and conservation designations
- Advice on finding and watching mammals

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Nature / Mammals
WILDGuides of Britain & Europe
Princeton University Press
Britain's Freshwater Fishes
Mark Everard

Britain hosts a diversity of freshwater environments, from torrential hill streams and lowland rivers to lakes and reservoirs, ponds and canals, and ditches and estuaries. *Britain's Freshwater Fishes* covers more than 50 species of freshwater and brackish fish found in these waters. This beautifully illustrated guide features in-the-hand and in-the-water photographs throughout, and accessible and informative overviews of topics such as fish biology and life cycles. Detailed species accounts describe key identification features, with information on status, size and weight, habitat, ecology, and conservation. The book also includes a glossary and suggestions for further reading.

This easy-to-use field guide will be invaluable to anyone interested in Britain's freshwater fish life, from naturalists and academics to students and anglers.

- Covers all of Britain's freshwater fishes
- Features beautiful photos throughout
- Includes detailed information on more than 50 species, the places they inhabit, and their roles in Britain's ecosystems
- Attractively designed and easy to use

Britain's Reptiles and Amphibians
Howard Inns, Chris Packham

This detailed guide to the reptiles and amphibians of Britain, Ireland, and the Channel Islands has been produced, with the collaboration of the Amphibian and Reptile Conservation Trust, with the aim of inspiring an increased level of interest in these exciting and fascinating animals. It is designed to help anyone who finds a lizard, snake, turtle, tortoise, terrapin, frog, toad, or newt to identify it with confidence.

- Stunning photography
- An easy-to-use approach to identification
- Superbly illustrated introductory sections on the biology and conservation, taxonomy, lifecycle, and behavior of each species group
- Profiles of the 16 native reptiles and amphibians that breed in Britain, Ireland, and the Channel Islands and the 5 marine turtles that visit Britain's seas
- Profiles of 7 established nonnative species and a summary of 8 more with a history of release/escape
- Distribution maps based on the latest available information
- Hints and tips on where, when, and how to watch reptiles and amphibians
Britain's Plant Galls
A Photographic Guide
Michael Chinery

This book has been produced with the aim of stimulating the general naturalist to take a closer look at the bumps and lumps that make up the fascinating world of plant galls. Induced by a variety of insects and other organisms and ranging from tiny pimples to bizarre and often very attractive and exquisitely sculptured growths, plant galls are mystery to many people, but they offer a fascinating field of study for both botanists and zoologists. Galls can be found on a very wide range of both woody and herbaceous plants, with over 50 different kinds occurring on Britain's oak trees alone, and there is still much to be learned about even the commonest examples.

- An introduction to the nature of plant galls and their formation
- Brief descriptions of some of the organisms that cause or induce galls
- Superb photographs of just over 200 of the commonest or most conspicuous of Britain's 1,000 or so plant galls, arranged according to their host plants to aid field identification
- Descriptions of these galls and the life histories of the organisms that cause them

Britain's Habitats
Sophie Lake, Durwyn Liley, Robert Still, Andy Swash, Alastair Driver

A comprehensive and lavishly illustrated photographic guide—now in a handy field-guide format

This lavishly illustrated photographic guide provides a comprehensive overview of the natural history of wildlife habitats in Britain and Ireland. Now completely redesigned in a handy field-guide format, and featuring revised and updated text throughout, this new edition of Britain's Habitats guides readers through all the main habitat types, presenting information on their characteristics, extent, geographical variation, key species, cultural importance, origins and conservation. It aims to help visitors to the countryside recognize the habitats around them, understand how they have evolved and what makes them special, and imagine how they might change in the future. This new edition includes updated maps and additional photographs throughout, and covers a new habitat—gardens. The perfect companion for anyone travelling in Britain and Ireland, the book is essential reading for all wildlife enthusiasts, professional ecologists and landscape architects.

- Individual sections on all the main habitat types found in Britain and Ireland
- More than 680 evocative colour photographs, including images from around Britain and Ireland in all seasons
- Details and photographs of key species and features associated with the different habitats
- Up-to-date information—including maps—on the distribution, extent and importance of all habitat types
- Features new to this edition include a field-guide format, updated maps, more photographs throughout and coverage of an additional habitat—gardens
Britain's Ferns
A Field Guide to the Clubmosses, Quillworts, Horsetails and Ferns of Great Britain and Ireland
James Merryweather

The only comprehensive photographic guide to the ferns, clubmosses, quillworts and horsetails of Britain

This is a comprehensive, lavishly illustrated and user-friendly photographic identification guide to the fifty-seven ferns and seventeen other pteridophytes that occur in Britain. It is the perfect companion for botanists, naturalists, professional ecologists and anyone else with an interest in this fascinating group of non-flowering vascular plants. Designed to appeal to beginners and experts alike, this authoritative book includes novel identification keys and comparison tables that have been carefully devised to present only essential, easily understood technical terms and descriptions, avoiding jargon as much as possible. Cross-referenced throughout to facilitate the comparison of similar species, this definitive field guide is the go-to source for identifying these species with confidence.

- Features hundreds of stunning colour photographs
- Comprehensive coverage of Britain’s 57 species of ferns, 6 clubmosses, 3 quillworts and 8 horsetails
- Includes novel, easy-to-use, jargon-free identification keys and comparison tables
- Beautifully designed, user-friendly and accessible

Britain's Butterflies
David Newland, Robert Still, Andy Swash, David Tomlinson, Julie Williams

A new and improved edition of the popular photographic field guide

Britain's Butterflies is a comprehensive and beautifully designed photographic field guide to the butterflies of Britain and Ireland. Containing hundreds of stunning colour photographs, this extensively revised and updated new edition provides the latest information on every species ever recorded. It covers in detail the identification of all 59 butterfly species that breed regularly, as well as four former breeders, 10 rare migrants and one species of unknown status. The easy-to-use format will enable butterfly watchers—beginners or experts—to identify any species they encounter. Produced in association with Butterfly Conservation, this edition features new introductory sections to the main “types” of butterflies; updated distribution maps; a revised species order reflecting the latest taxonomy; revised sections on recording and monitoring, and conservation and legislation; and a new section on climate change.

- Stunning colour plates show typical views of each butterfly species, including the various forms and common aberrations
- Detailed species profiles provide information on status and distribution, including up-to-date maps, and cover adult identification; behaviour; breeding habitat requirements; population and conservation; egg, caterpillar and chrysalis; and caterpillar foodplants
- Photographs of the egg, caterpillar and chrysalis for every breeding species
- Sections on biology, where to look for and how to identify butterflies, and other essential information
Britain's Day-flying Moths
David Newland, Robert Still, Andy Swash

A carefully designed and beautifully illustrated photographic guide to the moths you are most likely to see during the day

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. Like butterflies, some moths fly regularly in sunshine, whereas others that usually fly at night are readily disturbed from their resting places during the day. This guide describes all of these species and features at least one photograph of each in its natural, resting pose. A brief description of each moth covers the key identification features and when and where to look for it, and includes information on its status, life history, special features and caterpillar food plants. Other sections explain how to distinguish moths from butterflies, and also provide essential information on biology, classification, habitats, gardening for moths, conservation and legislation and recording and monitoring.

- Individual accounts for 158 species and photos of 28 others
- More than 320 stunning photos, with every moth shown as you see it
- Beautifully designed, easy to use and clearly written

Europe's Sea Mammals
Including the Azores, Madeira, the Canary Islands and Cape Verde
A field guide to the whales, dolphins, porpoises and seals
Robert Still, Hugh Harrop, Luís Dias, Tim Stenton

A state-of-the-art photographic identification guide to Europe's whales, dolphins, porpoises and seals

This cutting-edge photographic identification guide to Europe's sea mammals—the only such guide of its kind—covers the 39 species of whales, dolphins and porpoises and 9 species of seals found in the region, which spans the eastern Atlantic from Iceland to Macaronesia, and the Mediterranean, Caspian and Baltic seas. Written and illustrated by a team of professional tour guides with extensive experience presenting the region's sea mammals, the guide features more than 180 color photographs, maps and graphics, highlights key identification features and includes information on the range, ecology, behaviour and conservation status of each species. Produced with the marine conservation charity ORCA, the book presents mapping data from a decade of surveys, which shows both current distribution and changes over time.

Europe's Sea Mammals is an essential companion for whale watchers and anyone else who is interested in this enigmatic group of mammals.

- The only photographic guide dedicated to this popular whale-watching region
- Features more than 180 color photos, maps and graphics
- Highlights key identification features and provides essential information on the range, ecology, behaviour and conservation status of each species
The Essential Guide to Rockpooling
Julie Hatcher, Steve Trewhella

The marine environment is a remarkable place – otherworldly and a source of endless fascination. The rocky shore where land meets sea, its array of life ever-changing with the tides, offers us a chance to explore this hidden world.

This book reveals the astonishing diversity of wildlife on rocky shores and in the rockpools around the coast of Britain and gives readers a greater understanding of the myriad creatures that can be found using a bit of simple detective work.

Rockpooling is an activity enjoyed by children and adults alike. This guide will make your exploration even more rewarding, whether you are enjoying a day out at the seaside or seeking to expand your knowledge of a unique habitat.

- Detailed descriptions of around 400 common and rare rocky shore species
- Clear colour photographs of all the species described
- Tips and techniques describing how to find the more cryptic animals
- Ideas for rockpool-related family activities
- Information on threats to the intertidal environment
- Measures we can all take to safeguard the future of our rocky shore wildlife

The Essential Guide to Beachcombing and the Strandline
Steve Trewhella, Julie Hatcher

Immerse yourself in the beachcombing experience; the wind in your face, the smell of salt spray, the roar of the ocean; it’s an assault on the senses, the perfect tonic. From time immemorial people have been drawn to the beach to collect practical resources as well as mysterious objects that have fuelled myth and folklore – it is our inherent hunter-gatherer instinct.

The beach strandline is also a wildlife habitat, home to a unique community of plants and animals, many found nowhere else. They create a rich and ever-changing oasis of life in the otherwise harsh environment of the beach.

Whether you are a seasoned beachcomber, a casual visitor or an enthusiastic naturalist, this book is for you. It will satisfy your curiosity about each treasure found cast up on the beach, be it a pretty seashell or an exotic ocean voyager.

- Descriptions of common and rare beach finds, both natural and man-made
- Clear photographs showing objects and species as found on the strandline and in their natural habitat
- Suggestions for family activities related to beachcombing
- A comprehensive account of the living flora and fauna of the beach strandline
- Information on threats and conservation measures for the marine and coastal environment
Field Guide to Sharks, Rays & Chimaeras of Europe and the Mediterranean
David A. Ebert, Marc Dando

The definitive field guide to all the sharks, rays and chimaeras of the European Atlantic and Mediterranean

The waters of the northeast Atlantic and Mediterranean Sea are home to an amazing variety of sharks, rays and chimaeras. This comprehensive and easy-to-use field guide covers all 146 species found in the Mediterranean, the waters of the European Atlantic and Iceland, along all the Scandinavian coasts, in the Black Sea and as far south as the Canary Islands. Detailed species accounts describe key identification features, habitat, biology and status. Every species account comes with a colour distribution map, a depth guide, at-a-glance icons and colour illustrations. This must-have field guide also features illustrated key guides that enable you to accurately identify down to species, comparison plates of similar species, illustrations of eggcases where known and plates of teeth.

- The first field guide to cover all 146 species
- Features hundreds of colour illustrations, photos, maps and diagrams
- Describes key features, habitat, biology and status
- Includes depth guides, at-a-glance icons, key guides and teeth plates

A Pocket Guide to Sharks of the World
Second Edition
David A. Ebert, Marc Dando, Sarah Fowler

An updated and comprehensive guide identifying all of the world’s sharks

Sharks are some of the most misunderstood animals on the planet. We still have a lot to learn about these fascinating creatures, which are more seriously threatened with extinction and in greater need of conservation and management than any other major group of vertebrates.

A Pocket Guide to Sharks of the World is the only field guide to identify, illustrate, and describe every known shark species. Its compact format makes it handy for many situations, including recognizing living species, fishery catches, or parts sold at markets. This expanded second edition presents lavish images, details on newly discovered species, and updated text throughout. The book contains useful sections on identifying shark teeth and the shark fins most commonly encountered in the fin trade, and takes a look at shark biology, ecology, and conservation. A Pocket Guide to Sharks of the World will be an essential resource and definitive reference for years to come.

- An updated guide to all of the world’s sharks
- Each species is illustrated and described
- Handy, compact format with concise text
- Useful sections on the identification of shark teeth and fins
The Marine World
A Natural History of Ocean Life
Frances Dipper

The Marine World is a book for everyone with an interest in the ocean, from the marine biologist or student wanting expert knowledge of a particular group to the naturalist or diver exploring the seashore and beyond.

With colour illustrations, line drawings, more than 1,500 colour photographs, and with clear accessible text, this book encompasses all those organisms that live in, on and around the ocean, bringing together in a single text everything from the minuscule to the immense. It includes sections on all but the most obscure marine groups, covering invertebrate phyla from sponges to sea squirts, as well as plants, fungi, bacteria, fish, reptiles, mammals and birds. It incorporates information on identification, distribution, structure, biology, ecology, classification and conservation of each group, addressing the questions of 'what?', 'where?' and 'how?'

Today global warming, overfishing, ocean acidification and pollution are just a few of the ever increasing number of threats and challenges faced by ocean life. Without knowledge of the animals, plants and other organisms that live in the marine world, we cannot hope to support or implement successful conservation and management measures, nor truly appreciate the incredible wealth and variety of marine life.

The Marine World is the product of a lifetime spent by Frances Dipper happily observing and studying marine organisms the world over. It has been brought to colourful life by a myriad of enthusiastic underwater photographers and by Marc Dando, the renowned natural history illustrator.

Sharks of the World
A Complete Guide
David A. Ebert, Marc Dando, Sarah Fowler, Rima Jabado

The most comprehensive reference guide to the world's sharks—now fully revised and updated

Sharks of the World is the essential illustrated guide for anyone interested in these magnificent creatures. Now fully revised and updated, it covers 536 of the world's shark species and is packed with colour illustrations, colour photos and informative diagrams. This comprehensive, easy-to-use reference guide incorporates the latest taxonomic revisions of many shark families, featuring many species that were only described in recent years. It also includes a completely revised and expanded introduction and updated line drawings throughout.

- Covers 536 shark species from around the world
- Features updated species accounts, illustrations and maps
- Gives an illustrated overview of shark biology, ecology and conservation
- Includes fin identification guides
- Provides a colour distribution map for every species
Seaweeds of Britain and Ireland
Second Edition
Francis Bunker, Juliet A. Brodie, Christine A. Maggs, Anne R. Bunker

The cool temperate waters of the British and Irish seas contain an astonishing 6% of the world’s algal species, more than 600 different seaweeds, and yet most divers, snorkellers and rockpoolers can put names to only a handful of them.

The first edition of Seaweeds of Britain and Ireland has proved invaluable to an enormous number of people, not just volunteer Seasearch divers and snorkellers, and this eagerly awaited second edition will no doubt prove to be equally as popular. The aim of this book is to introduce the reader to the wonderful marine environment around Britain and Ireland, and improve identification of the wealth of seaweeds so often overlooked.

Features of the new edition include:
- Over 230 species described in detail with colour photographs, information on size, habitat and distribution maps
- Over 50 new species, many with information on how to identify to species level using microscopic features
- Key distinguishing features and areas of identity confusion highlighted
- Colour and form used to group species and aid identification using dichotomous keys
- Details of life histories and reproductive processes for the main seaweed groups
- Both scientific and English names used for species and groups
- A glossary of common and specialised terms

The Diver's Guide to Marine Life of Britain and Ireland
Second Edition
Chris Wood

The cool temperate waters around Britain and Ireland are at a crossroads between warmer waters to the south and Arctic ones to the north. Consequently they contain a huge variety of marine animals and plants which differ significantly from place to place around the islands and shores.

This guide aims to introduce divers and snorkellers to the most common and identifiable animals and plants they will encounter underwater, both widely distributed species and some of the specialities of different areas.

Completely revised and expanded this Second Edition covers almost 300 individual species and groups of species seen underwater, from tiny fragile sea spiders to the massive plankton feeding Basking Shark.

- 265 individual species descriptions, each with information on habitat, size, depth range and distribution in easy to use icon format
- Text emphasising the key features for identification of each species and possible confusions
- Underwater photographs showing each species as the diver or snorkeller would see it
- A unique ‘confidence guide’ to identify which species are easily recognised and which are likely to require confirmation
- Over 30 additional groups of plants and animals that cannot be identified individually underwater, but can be important features of the living community
- Information on marine habitats, conservation status and nonnative species in British and Irish waters

This guide complements the other titles in this series by providing an introduction to a wide range of species, which can be followed up by referring to the greater detail available in the specialist guides.
Mammoths, Sabertooths, and Hominids
65 Million Years of Mammalian Evolution in Europe
Jordi Agustí, Mauricio Antón

Mammoths, Sabertooths, and Hominids takes us on a journey through 65 million years, from the aftermath of the extinction of the dinosaurs to the glacial climax of the Pleistocene epoch; from the rain forests of the Paleocene and the Eocene, with their lemur-like primates, to the harsh landscape of the Pleistocene Steppes, home to the woolly mammoth. It is also a journey through space, following the migrations of mammal species that evolved on other continents and eventually met to compete or coexist in Cenozoic Europe. Finally, it is a journey through the complexity of mammalian evolution, a review of the changes and adaptations that have allowed mammals to flourish and become the dominant land vertebrates on Earth.

With the benefit of recent advances in geological and geophysical techniques, Jordi Agustí and Mauricio Antón are able to trace the processes of mammalian evolution as never before; events that hitherto appeared synchronous or at least closely related can now be distinguished on a scale of hundreds or even dozens of thousands of years, revealing the dramatic importance of climactic changes both major and minor. Evolutionary developments are rendered in magnificent illustrations of the many extraordinary species that once inhabited Europe, detailing their osteology, functional anatomy, and inferred patterns of locomotion and behavior. Based on the latest research and field work, Mammoths, Sabertooths, and Hominids transforms our understanding of how mammals evolved and changed the face of the planet.

T. rex and the Crater of Doom
Walter Alvarez, Carl Zimmer

Sixty-five million years ago, a comet or asteroid larger than Mount Everest slammed into the Earth, inducing an explosion equivalent to the detonation of a hundred million hydrogen bombs. Vaporized detritus blasted through the atmosphere upon impact, falling back to Earth around the globe. Disastrous environmental consequences ensued: a giant tsunami, continent-scale wildfires, darkness, and cold, followed by sweltering greenhouse heat. When conditions returned to normal, half the plant and animal genera on Earth had perished.

This horrific chain of events is now widely accepted as the solution to a great scientific mystery: what caused the extinction of the dinosaurs? Walter Alvarez, one of the Berkeley scientists who discovered evidence of the impact, tells the story behind the development of the initially controversial theory. It is a saga of high adventure in remote locations, of arduous data collection and intellectual struggle, of long periods of frustration ended by sudden breakthroughs, of friendships made and lost, and of the exhilaration of discovery that forever altered our understanding of Earth’s geological history.
Extinction
How Life on Earth Nearly Ended 250 Million Years Ago - Updated Edition
Douglas H. Erwin

Some 250 million years ago, the earth suffered the greatest biological crisis in its history. Around 95 percent of all living species died out—a global catastrophe far greater than the dinosaurs' demise 185 million years later. How this happened remains a mystery. But there are many competing theories. Some blame huge volcanic eruptions that covered an area as large as the continental United States; others argue for sudden changes in ocean levels and chemistry, including burps of methane gas; and still others cite the impact of an extraterrestrial object, similar to what caused the dinosaurs' extinction.

Extinction is a paleontological mystery story. Here, the world's foremost authority on the subject provides a fascinating overview of the evidence for and against a whole host of hypotheses concerning this cataclysmic event that unfolded at the end of the Permian.

After setting the scene, Erwin introduces the suite of possible perpetrators and the types of evidence paleontologists seek. He then unveils the actual evidence—moving from China, where much of the best evidence is found; to a look at extinction in the oceans; to the extraordinary fossil animals of the Karoo Desert of South Africa. Erwin reviews the evidence for each of the hypotheses before presenting his own view of what happened.

Although full recovery took tens of millions of years, this most massive of mass extinctions was a powerful creative force, setting the stage for the development of the world as we know it today.

In a new preface, Douglas Erwin assesses developments in the field since the book’s initial publication.

Locked in Time
Animal Behavior Unearthed in 50 Extraordinary Fossils
Dean R. Lomax, Robert Nicholls

Fossils allow us to picture the forms of life that inhabited the earth eons ago. But we long to know more: how did these animals actually behave? We are fascinated by the daily lives of our fellow creatures—how they reproduce and raise their young, how they hunt their prey or elude their predators, and more. What would it be like to see prehistoric animals as they lived and breathed?

From dinosaurs fighting to their deaths to elephant-sized burrowing ground sloths, this book takes readers on a global journey deep into the earth’s past. Locked in Time showcases fifty of the most astonishing fossils ever found, brought together in five fascinating chapters that offer an unprecedented glimpse at the real-life behaviors of prehistoric animals. Dean R. Lomax examines the extraordinary direct evidence of fossils captured in the midst of everyday action, such as dinosaurs sitting on their eggs like birds, Jurassic flies preserved while mating, a T. rex infected by parasites. Each fossil, he reveals, tells a unique story about prehistoric life. Many recall behaviors typical of animals familiar to us today, evoking the chain of evolution that links all living things to their distant ancestors. Locked in Time allows us to see that fossils are not just inanimate objects: they can record the life stories of creatures as fully alive as any today. Striking and scientifically rigorous illustrations by renowned paleoartist Bob Nicholls bring these breathtaking moments to life.
Dinopedia
A Brief Compendium of Dinosaur Lore
Darren Naish

An illuminating and entertaining collection of dinosaur facts, from A to Z

Dinopedia is an illustrated, pocket-friendly encyclopedia of all things dinosaurian. Featuring dozens of entries on topics ranging from hadrosaur nesting colonies to modern fossil hunters and paleontologists such as Halszka Osmólska and Paul Sereno, this amazing A–Z compendium is brimming with facts about these thrilling, complex, and sophisticated animals.

Almost everything we know about dinosaurs has changed in recent decades. A scientific revolution, kick-started in the late 1960s by astounding new discoveries and a succession of new ideas, has shown that these magnificent creatures were marvels of evolution that surpassed modern reptiles and mammals in size, athletic abilities, and more. Darren Naish sheds invaluable light on our current, fast-changing understanding of dinosaur diversity and evolutionary history, and discusses the cultural impacts of dinosaurs through books, magazines, and movies. Naish also shows how our emerging view of these animals is very much a human story about ambition and competing egos, revealing that controversy and disagreement are commonplace in the vigorous field of dinosaur studies.

With a wealth of original illustrations by the author, Dinopedia is an informative and entertaining collection of lore for the dinosaur lover in all of us.

• Features a real cloth cover with an elaborate foil-stamped design

The Princeton Field Guide to Dinosaurs
Second Edition
Gregory S. Paul

A fully updated and expanded new edition of the acclaimed, bestselling dinosaur field guide

The bestselling Princeton Field Guide to Dinosaurs remains the must-have book for anyone who loves dinosaurs, from amateur enthusiasts to professional paleontologists. Now extensively revised and expanded, this dazzlingly illustrated large-format edition features some 100 new dinosaur species and 200 new and updated illustrations, bringing readers up to the minute on the latest discoveries and research that are radically transforming what we know about dinosaurs and their world.

Written and illustrated by acclaimed dinosaur expert Gregory Paul, this stunningly beautiful book includes detailed species accounts of all the major dinosaur groups as well as nearly 750 dinosaur species, including scores of newly discovered ones. Paul’s extensively revised introduction delves into dinosaur history and biology, the extinction of nonavian dinosaurs, the origin of birds, and the history of dinosaur paleontology, as well as giving a taste of what it might be like to travel back in time to the era when dinosaurs roamed the earth.

• Now extensively revised and expanded
• Covers nearly 750 dinosaur species, including scores of newly discovered ones
• Provides startling new perspectives on the famed Brontosaurus and Tyrannosaurus
• Features nearly 700 color and black-and-white images—skeletal drawings, “life” studies, scenic views, and other illustrations that depict the full range of dinosaurs, from small feathered creatures to whale-sized supersauropods
• Includes color paleo-distribution maps and a color time line
• Describes anatomy, physiology, locomotion, reproduction, and growth of dinosaurs, as well as the origin of birds and the extinction of nonavian dinosaurs

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Princeton Field Guides
Princeton University Press
Weird Dinosaurs
The Strange New Fossils Challenging Everything We Thought We Knew
John Pickrell, Philip Currie

From the outback of Australia to the Gobi Desert of Mongolia and the savanna of Madagascar, the award-winning science writer and dinosaur enthusiast John Pickrell embarks on a world tour of new finds, meeting the fossil hunters who work at the frontier of discovery. He reveals the dwarf dinosaurs unearthed by an eccentric Transylvanian baron; an aquatic, crocodile-snouted carnivore bigger than T. rex that once lurked in North African waterways; a Chinese dinosaur with wings like a bat; and a Patagonian sauropod so enormous it weighed more than two commercial jet airliners.

Other surprising discoveries hail from Alaska, Siberia, Canada, Burma, and South Africa. Why did dinosaurs grow so huge? How did they spread across the world? Did they all have feathers? What do sauropods have in common with 1950s vacuum cleaners? The stuff of adventure movies and scientific revolutions, Weird Dinosaurs examines the latest breakthroughs and new technologies that are radically transforming our understanding of the distant past. Pickrell opens a vivid portal to a brand-new age of fossil discovery, in which fossil hunters are routinely redefining what we know and how we think about prehistory’s most iconic and fascinating creatures.

The Story of the Dinosaurs in 25 Discoveries
Amazing Fossils and the People Who Found Them
Donald R. Prothero

Today, any kid can rattle off the names of dozens of dinosaurs. But it took centuries of scientific effort—and a lot of luck—to discover and establish the diversity of dinosaur species we now know. How did we learn that Triceratops had three horns? Why don’t many paleontologists consider Brontosaurus a valid species? What convinced scientists that modern birds are relatives of ancient Velociraptor?

In The Story of the Dinosaurs in 25 Discoveries, Donald R. Prothero tells the fascinating stories behind the most important fossil finds and the intrepid researchers who unearthed them. In twenty-five vivid vignettes, he weaves together dramatic tales of dinosaur discoveries with what modern science now knows about the species to which they belong. Prothero takes us from eighteenth-century sightings of colossal bones taken for biblical giants through recent discoveries of enormous predators even larger than Tyrannosaurus. He recounts the escapades of the larger-than-life personalities who made modern paleontology, including scientific rivalries like the nineteenth-century “Bone Wars.” Prothero also details how to draw the boundaries between species and explores debates such as whether dinosaurs had feathers, explaining the findings that settled them or keep them going. Throughout, he offers a clear and rigorous look at what paleontologists consider sound interpretation of evidence. An essential read for any dinosaur lover, this book teaches us to see an ancient world ruled by giant majestic creatures anew.
The Princeton Field Guide to Prehistoric Mammals
Donald R. Prothero, Mary Persis Williams

The ultimate illustrated guide to the lost world of prehistoric mammals

After the mass extinction of the dinosaurs 65 million years ago, mammals became the dominant terrestrial life form on our planet. Roaming the earth were spectacular beasts such as saber-toothed cats, giant mastodons, immense ground sloths, and gigantic giraffe-like rhinoceroses. Here is the ultimate illustrated field guide to the lost world of these weird and wonderful prehistoric creatures.

A woolly mammoth probably won’t come thundering through your vegetable garden any time soon. But if one did, this would be the book to keep on your windowsill next to the binoculars. It covers all the main groups of fossil mammals, discussing taxonomy and evolutionary history, and providing concise accounts of the better-known genera and species as well as an up-to-date family tree for each group. No other book presents such a wealth of new information about these animals—what they looked like, how they behaved, and how they were interrelated. In addition, this unique guide is stunningly illustrated throughout with full-color reconstructions of these beasts—many never before depicted—along with photographs of amazing fossils from around the world.

- Provides an up-to-date guidebook to hundreds of extinct species, from saber-toothed cats to giant mammoths
- Features a wealth of color illustrations, including new reconstructions of many animals never before depicted
- Demonstrates evolution in action—such as how whales evolved from hoofed mammals and how giraffes evolved from creatures with short necks
- Explains how mass extinctions and climate change affected mammals, including why some mammals grew so huge

The Story of Life in 25 Fossils
Tales of Intrepid Fossil Hunters and the Wonders of Evolution
Donald R. Prothero

Every fossil tells a story. Best-selling paleontology author Donald R. Prothero describes twenty-five famous, beautifully preserved fossils in a gripping scientific history of life on Earth. Recounting the adventures behind the discovery of these objects and fully interpreting their significance within the larger fossil record, Prothero creates a riveting history of life on our planet.

The twenty-five fossils portrayed in this book catch animals in their evolutionary splendor as they transition from one kind of organism to another. We witness extinct plants and animals of microscopic and immense size and thrilling diversity. We learn about fantastic land and sea creatures that have no match in nature today. Along the way, we encounter such fascinating fossils as the earliest trilobite, Olenellus; the giant shark Carcharocles; the "fishibian" Tiktaalik; the "Frogamander" and the "Turtle on the Half-Shell"; enormous marine reptiles and the biggest dinosaurs known; the first bird, Archaeopteryx; the walking whale Ambulocetus; the gigantic hornless rhinoceros Paraceratherium, the largest land mammal that ever lived; and the Australopithecus nicknamed "Lucy," the oldest human skeleton. We meet the scientists and adventurers who pioneered paleontology and learn about the larger intellectual and social contexts in which their discoveries were made. Finally, we find out where to see these splendid fossils in the world's great museums.

Ideal for all who love prehistoric landscapes and delight in the history of science, this book makes a treasured addition to any bookshelf, stoking curiosity in the evolution of life on Earth.
Bringing Fossils to Life
An Introduction to Paleobiology
Donald R. Prothero

One of the leading textbooks in its field, Bringing Fossils to Life applies paleobiological principles to the fossil record while detailing the evolutionary history of major plant and animal phyla. It incorporates current research from biology, ecology, and population genetics, bridging the gap between purely theoretical paleobiological textbooks and those that describe only invertebrate paleobiology and that emphasize cataloguing live organisms instead of dead objects. For this third edition Donald R. Prothero has revised the art and research throughout, expanding the coverage of invertebrates and adding a discussion of new methodologies and a chapter on the origin and early evolution of life.

The Dinosauria, Second Edition
David B. Weishampel, Peter Dodson, Halszka Osmólska

When the The Dinosauria was first published more than a decade ago, it was hailed as "the best scholarly reference work available on dinosaurs" and "an historically unparalleled compendium of information." This second, fully revised edition continues in the same vein as the first but encompasses the recent spectacular discoveries that have continued to revolutionize the field. A state-of-the-science view of current world research, the volume includes comprehensive coverage of dinosaur systematics, reproduction, and life history strategies, biogeography, taphonomy, palaeoecology, thermoregulation, and extinction. Its internationally renowned authors—forty-four specialists on the various members of the Dinosauria—contribute definitive descriptions and illustrations of these magnificent Mesozoic beasts.

The first section of The Dinosauria begins with the origin of the great clade of these fascinating reptiles, followed by separate coverage of each major dinosaur taxon, including the Mesozoic radiation of birds. The second part of the volume navigates through broad areas of interest. Here we find comprehensive documentation of dinosaur distribution through time and space, discussion of the interface between geology and biology, and the palaeoecological inferences that can be made through this link. This new edition will be the benchmark reference for everyone who needs authoritative information on dinosaurs.
The Serengeti Rules
The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author
Sean B. Carroll

Now the subject of an Emmy Award–winning film the New York Times calls "spellbinding"

How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In The Serengeti Rules, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon.

One of the most important revelations about the natural world is that everything is regulated—there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild. And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar—there is a common underlying logic of life. Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life-saving medicines, and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet.

A bold and inspiring synthesis by one of our most accomplished biologists and gifted storytellers, The Serengeti Rules is the first book to illuminate how life works at vastly different scales. Read it and you will never look at the world the same way again.

The Crossley ID Guide
Britain and Ireland
Richard Crossley, Dominic Couzens

A groundbreaking and accessible field guide to the birds of Britain and Ireland

This guide is a celebration of the beauty of birds and the British and Irish countryside. Aimed at beginner and intermediate birders, yet suitable for all levels, this new volume in the groundbreaking Crossley ID Guide series is the most user-friendly guide to the birds of Britain and Ireland. Following The Crossley ID Guides' award-winning design, this book looks at all regularly occurring species in Britain and Ireland, and shows readers how to identify birds in their natural habitats using size, structure, shape, probability, and behavior—just like the experts do! Stunning images are accompanied by the colorful and compelling text of Dominic Couzens, one of Britain’s leading nature writers.

This unique book treats more than 300 species—all the regularly occurring birds likely to be encountered by observers—and the guide's attractive pages provide a real-life approach to bird identification. Beautiful, in-focus scenes present birds in various plumages and in lifelike poses set in identifiable British and Irish habitats. The plates also illustrate how a bird's appearance changes with distance. Organizing images in cohesive, easy-to-understand plates rather than as separate photographs, this book also sets itself apart by containing more images that demonstrate flight, behavior, habitat, and plumages than any other volume available. Not only is this field guide a reference book, it is also a spectacular teaching resource that makes it easy for nature enthusiasts to see and appreciate the big picture of bird identification.

- The most user-friendly guide to the birds of Britain and Ireland
- A close look at more than 300 regularly occurring species
- Award-winning Crossley ID Guide design
- Lifelike images of birds from near to far
- A celebration of the British and Irish countryside
- A teaching and field guide and essential reference
- Concise and compelling text by Dominic Couzens and Richard Crossley
Bovids of the World
Antelopes, Gazelles, Cattle, Goats, Sheep, and Relatives
José R. Castelló, Brent Huffman, Colin Groves

The most comprehensive guide to the bovids of the world

Bovids are a diverse group of ruminant mammals that have hooves and unbranched hollow horns. Bovids of the World is the first comprehensive field guide to cover all 279 bovid species, including antelopes, gazelles, cattle, buffaloes, sheep, and goats. From the hartebeest of Africa and the takin of Asia to the muskox of North America, bovids are among the world’s most spectacular animals and this stunningly illustrated and easy-to-use field guide is an ideal way to learn more about them.

The guide covers all species and subspecies of bovids described to date. It features more than 300 superb full-color plates depicting every kind of bovid, as well as detailed facing-page species accounts that describe key identification features, horn morphology, distribution, subspeciation, habitat, and conservation status in the wild. This book also shows where to observe each species and includes helpful distribution maps.

Suitable for anyone with an interest in natural history, Bovids of the World is a remarkable and attractive reference, showcasing the range and beauty of these important mammals.

- The first comprehensive field guide to all 279 bovid species
- 337 full-color plates, with more than 1,500 photographs
- Detailed species accounts describe key identification features, distribution, subspeciation, habitat, behavior, reproduction, and conservation status
- Fully updated and revised taxonomy, with common and scientific names
- Easy-to-read distribution maps

Felids and Hyenas of the World
Wildcats, Panthers, Lynx, Pumas, Ocelots, Caracals, and Relatives
José R. Castelló, Andrew C. Kitchener, Alexander Sliwa

The most comprehensive and user-friendly photographic field guide to the world’s wildcats and hyenas

From the Leopard Cat of Asia, the Black-footed Cat of Africa, and the Amur Tiger of Siberia to South America’s Ocelots and North America’s Bobcats, the wildcats known as felids are among the most fascinating and spectacular of all animals. This stunningly illustrated book is the most comprehensive and user-friendly guide to the world’s felids and their often misunderstood relative, the hyenas. Covering and illustrating every species and subspecies, the guide features more than 150 superb full-color plates that incorporate more than 600 photographs and show species in similar poses for quick and easy comparison. Drawing on the latest taxonomy and research, the facing-page species accounts provide distribution maps, common and scientific names, and detailed information on key identification features, distribution, behavior, reproduction, similar species, habitat, conservation status, and where to observe each species. An ideal field companion for use anywhere in the world, the book will appeal to both casual nature enthusiasts and seasoned professionals.

- Covers 41 felids and 4 hyenas—every species and subspecies in the world
- Features more than 150 color plates incorporating more than 600 photos
- Depicts species in similar poses for quick and easy comparisons
- Provides key identification information in detailed, facing-page species accounts
- Uses the latest taxonomy
- Includes easy-to-read distribution maps and tips on where to observe each species
**The Behavior Guide to African Mammals**
Including Hoofed Mammals, Carnivores, Primates, 20th Anniversary Edition
Richard D. Estes, Edward O. Wilson, Daniel Otte

*The Behavior Guide to African Mammals* is as different from a conventional field guide as motion pictures are from a snapshot. Whether we are able to look at them face to face, on television, or in the hundreds of illustrations provided here by Daniel Otte, this guide allows us to understand what animals do and what their behavior means.

Drawing on his own extensive fieldwork and on the research of many other scientists, Richard Despard Estes describes and explains the behavior of four major groups of mammals. Estes’s remarkably informative guide is as up-to-date for the zoologist as it is accessible for the interested onlooker.

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**Europe's Dragonflies**
A field guide to the damselflies and dragonflies
Dave Smallshire, Andy Swash

*Europe's Dragonflies* is a comprehensive, lavishly illustrated and beautifully designed photographic field guide to the damselflies and dragonflies of Europe. Written by two well-travelled experts, the book covers all 140 resident and vagrant species recorded, focussing on the field identification of adult insects. Concise species profiles highlight key identification features and provide information on behaviour, habitat preferences, distribution, flight periods, status and conservation. Other sections cover identification tips, conservation status and legislation. Presenting an unsurpassed selection of images of the highest quality, this is the go-to guide for anyone wishing to know more about these amazing and fascinating insects.

- Comprehensive coverage of every species of damselfly and dragonfly recorded in Europe
- Stunning colour plates showing males, females, immatures, colour forms, subspecies and typical habitat for every species
- Over 1,200 superb photographs, supplemented with illustrations of fine details
- Detailed profiles for the 140 resident and vagrant species
- Unique comparison plates for difficult groups
- Easy to use by beginners and experts alike, avoiding technical terms
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