

Volume 6 Ecology And Behavior Biology The Unity Diversity Of Life

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[Social Behavior and Communication](#) - P. Marler 2013-03-09

Other books in this series focus on behavior at the individual level, approached from the viewpoints of biochemistry, anatomy, physiology, and psychology. In this volume we show how the functioning nervous systems of interacting individuals are coordinated, with the ultimate creation of complex social structures. The intricacies of an individual's nervous system have been subject to intense inquiry, and research at the chemical, cellular, and organ levels has made remarkable progress. Work at the social level has been conducted somewhat independently, by way of behavioral phenomena and communicative interactions. With the emergence of a large body of information from neurobiology, the beginnings of an integrated approach are possible. New data on social functions are presented in the chapters to follow, and the forward-looking reader may wish to reflect on how they clarify understanding of interactions between two or more independent nervous systems. The outcome is harmonious social structure and improvement in the inclusive fitness of group-living individuals. We believe that there is in prospect a new way of looking at social function that will ultimately increase our understanding of the highest and most complex levels of neurobiology. The modern approach to the study of social behavior involves more than the recording of interactions between animals. Each individual brings to the process of social interaction the implications of its prior genetic and experiential history.

The Biology of Plethodontid Salamanders - Richard C. Bruce 2012-12-06

This volume offers a state-of-the-art overview of plethodontid salamanders. Readers will find the best current understanding of many aspects of the evolution, systematics, development, morphology, life history, ecology, and field methodology of these animals.

[Phylogeny, Ecology, and Behavior](#) - Daniel R. Brooks 1991

"The merits of this work are many. A rigorous integration of phylogenetic hypotheses into studies of adaptation, adaptive radiation, and coevolution is absolutely necessary and can change dramatically our collective 'gestalt' about much in evolutionary biology. The authors advance and illustrate this thesis beautifully. The writing is often lucid, the examples are plentiful and diverse, and the juxtaposition of examples from different biological systems argues forcefully for the validity of the thesis. Many new insights are offered here, and the work is usually accessible to both the practiced phylogeneticist and the naive ecologist."—Joseph Travis, Florida State University "[Phylogeny, Ecology, and Behavior] presents its arguments forcefully and cogently, with ample . . . support. Brooks and McLennan conclude as they began, with the comment that evolution is a result, not a process, and that it is the result of an interaction of a variety of processes, environmental and historical. Evolutionary explanations must consider all these components, else they are incomplete. As Darwin's explanations of descent with modification integrated genealogical and ecological information, so must workers now incorporate historical and nonhistorical, and biological and nonbiological, processes in their evolutionary perspective."—Marvalee H. Wake, Bioscience "This book is well-written and thought-provoking, and should be read by those of us who do not routinely turn to phylogenetic analysis when investigating adaptation, evolutionary ecology and co-evolution."—Mark R. MacNair, Journal of Natural History

[Cognitive Ecology](#) - Reuven Dukas 1998-07-06

Cognitive Ecology lays the foundations for a field of study that integrates theory and data from evolutionary

ecology and cognitive science to investigate how animal interactions with natural habitats shape cognitive systems, and how constraints imposed on nervous systems limit or bias animal behavior. Using critical literature reviews and theoretical models, the contributors provide new insights and raise novel questions about the adaptive design of specific brain capacities and about optimal behavior subject to the computational capabilities of brains.

[Biology and Evolution of the Mollusca, Volume 2](#) - Winston Frank Ponder 2020-03-10

This volume provides individual treatments of the major molluscan taxa. Each chapter provides an overview of the evolution, phylogeny and classification of a group of molluscs, as well as more specific and detailed coverage of their biology (reproduction, feeding and digestion, excretion, respiration etc.), their long fossil record and aspects of their natural history. The book is illustrated with hundreds of colour figures. In both volumes, concepts are summarised in colour-coded illustrations. Key selling features: Comprehensively reviews molluscan biology and evolutionary history Includes a description the anatomy and physiology of anatomical systems Up to date treatment with a comprehensive bibliography Reviews the phylogenetic history of the major molluscan lineages

[Symbiosis in Fishes](#) - Ilan Karplus 2014-04-09

Symbiosis in Fishes provides comprehensive coverage of the biology of partnerships between fishes and invertebrates, ascending the phylogenetic scale, from luminescent bacteria, sponges and coelenterates to molluscs, crustaceans and echinoderms. Both facultative and obligatory partnerships are reviewed with emphasis on the behavioral, ecological and evolutionary aspects of fish symbiosis. Each of the eight chapters of this book focuses on a different group of partners. The structure, physiology and anti-predatory strategies of each group are described to provide the necessary background for the understanding of their partnerships with fishes. The formation of the associations, the degree of partner specificity and its regulation, as well as the benefits and costs for the fishes and their associates, communication between partners and their possible co-evolution are discussed in each chapter. This is the first attempt to critically review in a single volume all associations of fishes with invertebrates based on the latest studies in these areas, together with studies published many years ago and little cited since then. Symbiosis in Fishes provides a huge wealth of information that will be of great use and interest to many life scientists including fish biologists, ecologists, ethologists, aquatic scientists, physiologists and evolutionary biologists. It is hoped that the contents of the book will stimulate many to further research, to fill in the gaps in our knowledge in this fascinating and important subject. Libraries in all universities and research establishments where biological sciences are studied and taught should have copies of this exciting book.

Animal Behavior - Michael D. Breed 2021-11-15

Animal Behavior, Third Edition covers animal behavior from its neurological underpinnings to the importance of behavior in conservation. The book's authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors, much of that teaching animal behavior. Chapters cover this social behavior and the relationship between parasites, pathogens and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning. The book addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking

questions. Additionally, special terms and definitions are highlighted throughout, making this book an essential work for students and academic seeking a foundation in the field. Provides a rich resource on animal science and behavior for students and professors from a wide range of life science disciplines Features updated and revised chapters, with new case studies and high-definition illustrations Highlights new focuses on animal welfare issues and companion animal behavior

Volume 6 - Ecology and Behavior - Cecie Starr 2015-01-01

Written by a team of best-selling authors, *BIOLOGY: THE UNITY AND DIVERSITY OF LIFE*, 14th Edition reveals the biological world in wondrous detail. Packed with eye-catching photos and images, this text shows and tells the fascinating story of life on Earth, and engages readers with hands-on activities that encourage critical thinking. Chapter opening Learning Roadmaps help you focus on the topics that matter most and section-ending Take Home Messages reinforce key concepts. Helpful in-text features include a running glossary, case studies, issue-related essays, linked concepts, self-test questions, data analysis problems, and more. Known for a clear, accessible style, *BIOLOGY: THE UNITY AND DIVERSITY OF LIFE*, 14th Edition puts the living world of biology under a microscope for readers from all walks of life to analyze, understand, and enjoy! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wolves - L. David Mech 2010-10-01

Wolves are some of the world's most charismatic and controversial animals, capturing the imaginations of their friends and foes alike. Highly intelligent and adaptable, they hunt and play together in close-knit packs, sometimes roaming over hundreds of square miles in search of food. Once teetering on the brink of extinction across much of the United States and Europe, wolves have made a tremendous comeback in recent years, thanks to legal protection, changing human attitudes, and efforts to reintroduce them to suitable habitats in North America. As wolf populations have rebounded, scientific studies of them have also flourished. But there hasn't been a systematic, comprehensive overview of wolf biology since 1970. In *Wolves*, many of the world's leading wolf experts provide state-of-the-art coverage of just about everything you could want to know about these fascinating creatures. Individual chapters cover wolf social ecology, behavior, communication, feeding habits and hunting techniques, population dynamics, physiology and pathology, molecular genetics, evolution and taxonomy, interactions with nonhuman animals such as bears and coyotes, reintroduction, interactions with humans, and conservation and recovery efforts. The book discusses both gray and red wolves in detail and includes information about wolves around the world, from the United States and Canada to Italy, Romania, Saudi Arabia, Israel, India, and Mongolia. *Wolves* is also extensively illustrated with black and white photos, line drawings, maps, and fifty color plates. Unrivalled in scope and comprehensiveness, *Wolves* will become the definitive resource on these extraordinary animals for scientists and amateurs alike. "An excellent compilation of current knowledge, with contributions from all the main players in wolf research. . . . It is designed for a wide readership, and certainly the language and style will appeal to both scientists and lucophiles alike. . . . This is an excellent summary of current knowledge and will remain the standard reference work for a long time to come."—Stephen Harris, *New Scientist* "This is the place to find almost any fact you want about wolves."—Stephen Mills, *BBC Wildlife Magazine*

Volume 6 - Ecology & Behavior - Cecie Starr 2012-01-01

Renowned for its writing style and trendsetting art, *ECOLOGY AND BEHAVIOR* engages students with relevant applications and encourages critical thinking. The new edition offers a new Learning Roadmap in each chapter to help students gain a full understanding. Students are able to focus on key concepts, make connections to other concepts, and see where the material is leading. Helpful learning tools like the section-ending Take-Home Messages and the on-page running glossary ensure they grasp key points. Carefully balancing accessibility and the level of detail, the authors enable students to go beyond rote memorization and prepare them to make important decisions in life that require an understanding of biology and the process of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Current Ornithology - Richard Johnston 2013-11-11

The appearance of the first volume of a projected series is the occasion for comment on scope, aims, and

genesis of the work. The scope of *Current Ornithology* is all of the biology of birds. Ornithology, as a whole-organism science, is concerned with birds at every level of biological organization, from the molecular to the community, at least from the Jurassic to the present time, and over every scholarly discipline in which bird biology is done; to say this is merely to expand a dictionary definition of "ornithology." The aim of the work, to be realized over several volumes, is to present reviews or position statements concerning the active fields of ornithological research. The reviews will be relatively short, and often will be done from the viewpoint of a readily identified group or school. Such a work could have come into being at any time within the past fifty years, but that *Current Ornithology* appears now is a result of events that are only seven to eight years old. One important event was the initiation in 1975-1976 of the Workshop on a National Plan for Ornithology, under the directorship of James R. King and Walter J. Bock, cosponsored by the American Ornithologists' Union and the National Science Foundation. Part of the Workshop's interests lay in publications resources, and certain kinds of information on publications were obtained by means of a questionnaire.

Biology and Evolution of the Mollusca, Volume 1 - Winston Frank Ponder 2019-11-18

Molluscs comprise the second largest phylum of animals (after arthropods), occurring in virtually all habitats. Some are commercially important, a few are pests and some carry diseases, while many non-marine molluscs are threatened by human impacts which have resulted in more extinctions than all tetrapod vertebrates combined. This book and its companion volume provide the first comprehensive account of the Mollusca in decades. Illustrated with hundreds of colour figures, it reviews molluscan biology, genomics, anatomy, physiology, fossil history, phylogeny and classification. This volume includes general chapters drawn from extensive and diverse literature on the anatomy and physiology of their structure, movement, reproduction, feeding, digestion, excretion, respiration, nervous system and sense organs. Other chapters review the natural history (including ecology) of molluscs, their interactions with humans, and assess research on the group. Key features of both volumes: up to date treatment with an extensive bibliography; thoroughly examines the current understanding of molluscan anatomy, physiology and development; reviews fossil history and phylogenetics; overviews ecology and economic values; and summarises research activity and suggests future directions for investigation. Winston F Ponder was a Principal Research Scientist at The Australian Museum in Sydney where he is currently a Research Fellow. He has published extensively over the last 55 years on the systematics, evolution, biology and conservation of marine and freshwater molluscs, as well as supervised post graduate students and run university courses. David R. Lindberg is former Chair of the Department of Integrative Biology, Director of the Museum of Paleontology, and Chair of the Berkeley Natural History Museums, all at the University of California. He has conducted research on the evolutionary history of marine organisms and their habitats on the rocky shores of the Pacific Rim for more than 40 years. The numerous elegant and interpretive illustrations were produced by Juliet Ponder.

Aeglidae - Sandro Santos 2019-09-17

Aeglidae focuses on these unique crustaceans who are endemic to South America. The book is the first to summarize the diverse aspects of the Aeglidae, whose taxonomic features and phylogenetic relationships, evolutionary history and biogeographical background, biological characteristics, and current conservation awareness make them stand out among all other decapods. Addresses the morphology, taxonomy, and phylogenetics that characterize the Aegla and their relationship to other decapod taxa Provides in-depth treatment of the evolutionary history, biogeography, reproduction, developmental biology, and the life cycle of the Aeglidae Discusses their physiology, ecology and behavior, including physiological mechanisms associated with freshwater adaptation, population dynamics, trophic ecology, agonistic and non-agonistic behavior Covers the current conservation status of all known species of aeglids, major threats to them, the use of aeglids as flagships or umbrella species, and conservation action planning Edited by internationally distinguished leaders in this field. This will be an important reference not only for carcinologists working with this family of decapods, but also readers interested in the evolution, biogeography, taxonomy, phylogenetics, physiology, and reproductive ecology.

Lizards - David P. Badger 2002

Looks at the behavior and physical characteristics of twenty-nine lizard species.

Behavioral Ecology and Conservation Biology - Tim Caro 1998-08-27

In just the last few years, behavioral ecologists have begun to address issues in conservation biology. This volume is the first attempt to link these disciplines formally. Here leading researchers explore current topics in conservation biology and discuss how behavioral ecology can contribute to a greater understanding of conservation problems and conservation intervention programs. In each chapter, the authors identify a conservation issue, review the ways it has been addressed, review behavioral ecological data related to it, including their own, evaluate the strengths and weaknesses of the behavioral ecological approach, and put forward specific conservation recommendations. The chapters juxtapose different studies on a wide variety of taxonomic groups. A number of common themes emerge, including the ways in which animal mating systems affect population persistence, the roles of dispersal and inbreeding avoidance for topics such as reserve design and effective population size, the key role of humans in conservation issues, and the importance of baseline data for conservation monitoring and modeling attempts. Each chapter sheds new light on conservation problems, generates innovative avenues of interdisciplinary research, and shows how conservation-minded behavioral ecologists can apply their expertise to some of the most important questions we face today.

Reproductive Biology and Phylogeny of Birds, Part A: - Barrie G M Jamieson 2011-10-14

Aspects of reproduction covered in this volume include classification and phylogeny as revealed by molecular biology; anatomy of the male reproductive tract and organs; anatomy and evolution of copulatory structures; development and anatomy of the female reproductive tract; endocrinology of reproduction; ovarian dynamics and follicle development; spermatogenesis and testicular cycles; avian spermatozoa: structure and phylogeny; testis size, sperm size and sperm competition and lastly, fertilization.

An Ecological Characterization of the Central and Northern California Coastal Region: Basic concepts - 1981

Giraffe - Anne Innis Dagg 2014-01-23

An up-to-date portrait of the giraffe, summarising current knowledge on their biology and behaviour along with current conservation efforts.

The Natural History of the Crustacea - Klaus Anger 2020-05-30

This is the seventh volume of a ten-volume series on The Natural History of the Crustacea. Chapters in this volume synthesize our current understanding of early crustacean development from the egg through the embryonic and larval phase. The first part of this book focuses on the elemental aspects of crustacean embryonic development. The second part of the book provides an account of the larval phase of crustaceans and describes processes that influence the development from hatching to an adult-like juvenile. The third and final part of the book explores ecological interactions during the planktonic phase and how crustacean larvae manage to find food, navigate the dynamic water column, and avoid predators in a medium that offers few refuges.

Inbreeding, Incest, and the Incest Taboo - Arthur P. Wolf 2005

Why is incest widely prohibited? Why does the scope of the prohibition vary from society to society? Why does incest occur despite the prohibition? What are the consequences? To reexamine these questions, this book brings together contributions from the fields of genetics, behavioral biology, primatology, biological and social anthropology, philosophy, and psychiatry.

An Introduction to Methods and Models in Ecology, Evolution, and Conservation Biology - Stanton Braude 2010-01-04

An innovative introduction to ecology and evolution This unique textbook introduces undergraduate students to quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation. It explores the core concepts shared by these related fields using tools and practical skills such as experimental design, generating phylogenies, basic statistical inference, and persuasive grant writing. And contributors use examples from their own cutting-edge research, providing diverse views to engage students and broaden their understanding. This is the only textbook on the subject featuring a collaborative "active learning" approach that emphasizes hands-on learning. Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups. Each problem

includes data presented in a rich array of formats, which students use to answer questions that illustrate patterns, principles, and methods. Topics range from Hardy-Weinberg equilibrium and population effective size to optimal foraging and indices of biodiversity. The book also includes a comprehensive glossary. In addition to the editors, the contributors are James Beck, Cawas Behram Engineer, John Gaskin, Luke Harmon, Jon Hess, Jason Kolbe, Kenneth H. Kozak, Robert J. Robertson, Emily Silverman, Beth Sparks-Jackson, and Anton Weisstein. Provides experience with hypothesis testing, experimental design, and scientific reasoning Covers core quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation Turns "discussion sections" into "thinking labs" Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to:

http://press.princeton.edu/class_use/solutions.html

The Natural History of the Crustacea: Reproductive Biology - Rickey Cothran 2020-01-22

This is the sixth volume of a ten-volume series on The Natural History of the Crustacea. The volume synthesizes in nineteen chapters our current understanding of diverse topics in crustacean reproductive biology. In the first part of this book, the chapters address allocation strategies to reproduction, gamete production, brooding behavior, and other components of parental care in crustaceans. The second part of the volume centers on sexual systems in crustaceans. The third section of the volume covers crustacean mating systems and sexual selection. Reproductive Biology ends with three chapters covering diverse topics including reproductive rhythms, crustacean personality research, and record breaking crustaceans with respect to reproductive characters.

The Routledge Handbook of Landscape Ecology - Robert A. Francis 2021-09-09

The Handbook provides a supporting guide to key aspects and applications of landscape ecology to underpin its research and teaching. A wide range of contributions written by expert researchers in the field summarize the latest knowledge on landscape ecology theory and concepts, landscape processes, methods and tools, and emerging frontiers. Landscape ecology is an interdisciplinary and holistic discipline, and this is reflected in the chapters contained in this Handbook. Authors from varying disciplinary backgrounds tackle key concepts such as landscape structure and function, scale and connectivity; landscape processes such as disturbance, flows, and fragmentation; methods such as remote sensing and mapping, fieldwork, pattern analysis, modelling, and participation and engagement in landscape planning; and emerging frontiers such as ecosystem services, landscape approaches to biodiversity conservation, and climate change. Each chapter provides a blend of the latest scientific understanding of its focal topics along with considerations and examples of their application from around the world. An invaluable guide to the concepts, methods, and applications of landscape ecology, this book will be an important reference text for a wide range of students and academics in ecology, geography, biology, and interdisciplinary environmental studies.

Sociobiology - Edward O. Wilson 2000-03-24

When this work was first published it started a tumultuous round in the age-old nature versus nurture debate. It shows how research in human genetics and neuroscience has strengthened the case for biological understanding of human nature.

Behavioral Mechanisms in Evolutionary Ecology - Leslie Real 1994-11-30

The first book-length exploration of behavioral mechanisms in evolutionary ecology, this ambitious volume illuminates long-standing questions about cause-and-effect relations between an animal's behavior and its environment. By focusing on biological mechanisms—the sum of an animal's cognitive, neural, developmental, and hormonal processes—leading researchers demonstrate how the integrated study of animal physiology, cognitive processes, and social interaction can yield an enriched understanding of behavior. With studies of species ranging from insects to primates, the contributors examine how various animals identify and use environmental resources and deal with ecological constraints, as well as the roles of learning, communication, and cognitive aspects of social interaction in behavioral evolution. Taken together, the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation, mating, and dispersal. Behavioral Mechanisms in Evolutionary Ecology shows how

a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution.

The Ecology and Behavior of Amphibians - Kentwood D. Wells 2010-02-15

Consisting of more than six thousand species, amphibians are more diverse than mammals and are found on every continent save Antarctica. Despite the abundance and diversity of these animals, many aspects of the biology of amphibians remain unstudied or misunderstood. The Ecology and Behavior of Amphibians aims to fill this gap in the literature on this remarkable taxon. It is a celebration of the diversity of amphibian life and the ecological and behavioral adaptations that have made it a successful component of terrestrial and aquatic ecosystems. Synthesizing seventy years of research on amphibian biology, Kentwood D. Wells addresses all major areas of inquiry, including phylogeny, classification, and morphology; aspects of physiological ecology such as water and temperature relations, respiration, metabolism, and energetics; movements and orientation; communication and social behavior; reproduction and parental care; ecology and behavior of amphibian larvae and ecological aspects of metamorphosis; ecological impact of predation on amphibian populations and antipredator defenses; and aspects of amphibian community ecology. With an eye towards modern concerns, The Ecology and Behavior of Amphibians concludes with a chapter devoted to amphibian conservation. An unprecedented scholarly contribution to amphibian biology, this book is eagerly anticipated among specialists.

Advances in the Study of Behavior - 2018-03-19

Advances in the Study of Behavior, Volume 50 provides users with the latest insights in this ever-evolving field. Users will find new information on a variety of species, including social behaviors in reptiles, the behavioral evidence of felt emotions, a section on developmental plasticity, a chapter on covetable corpses and plastic beetles and the socioecological behavior of burying beetles, and a section on the mechanisms of communication and cognition in chickadees. This volume makes another important contribution to the development of the field by presenting theoretical ideas and research findings to professionals studying animal behavior and related fields. Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and related fields

Cheetahs: Biology and Conservation - 2017-11-28

Cheetahs: Biology and Conservation reports on the science and conservation of the cheetah. This volume demonstrates the interdisciplinary nature of research and conservation efforts to study and protect the cheetah. The book begins with chapters on the evolution, genetics, physiology, ecology and behavior of the species, as well as distribution reports from range countries. These introductory chapters lead into discussions of the challenges facing cheetah survival, including habitat loss, declining prey base, human-wildlife conflict, illegal trade, and newly-emerging threats, notably climate change. This book also focuses on conservation strategies and solutions, including environmental education and alternative livelihoods. Chapters on the role of captive cheetahs to conservation and the long-term research of the species are included, as are a brief discussion of the methods and analyses used to study the cheetah. The book concludes with the conservation status and future outlook of the species. Cheetahs: Biology and Conservation is a valuable resource for the regional and global communities of cheetah conservationists, researchers, and academics. Although cheetah focussed the book provides information relevant to the study of broader topics such as wildlife conservation, captive breeding, habitat management, conservation biology and animal behaviour. Cover photograph by Angela Scott Includes chapters by the world's leading cheetah researchers and practitioners, who have focused their efforts on this high-profile species of conservation concern Provides findings as a combination of scientific detail and basic explanations so that they can be available not only to cheetah researchers and conservationists, but also to policy makers, business leaders, zoo managers, academics, students, and people interested in the cheetah and its future Presents the current knowledge of the species, helping lay the foundations and best practices for cheetah conservation and research worldwide Additional protocols and forms (which were provided by authors) can be found at the Cheetahs: Biology and Conservation companion site:

<https://www.elsevier.com/books-and-journals/book-companion/9780128040881>

An Introduction to Behavioural Ecology - Nicholas B. Davies 2012-04-02

This textbook helped to define the field of Behavioural Ecology. In this fourth edition the text has been completely revised, with new chapters and many new illustrations and full colour photographs. The theme, once again, is the influence of natural selection on behaviour – an animal's struggle to survive and reproduce by exploiting and competing for resources, avoiding predators, selecting mates and caring for offspring, – and how animal societies reflect both cooperation and conflict among individuals. Stuart A. West has joined as a co-author bringing his own perspectives and work on microbial systems into the book. Written in the same engaging and lucid style as the previous editions, the authors explain the latest theoretical ideas using examples from micro-organisms, invertebrates and vertebrates. There are boxed sections for some topics and marginal notes help guide the reader. The book is essential reading for students of behavioural ecology, animal behaviour and evolutionary biology. Key Features: Long-awaited new edition of a field-defining textbook New chapters, illustrations and colour photographs New co-author Focuses on the influence of natural selection on behavior, and how animal societies reflect both cooperation and conflict among individuals "The long-awaited update to a classic in this field is now here, presenting new directions in thinking and addressing burning questions. Richly informed by progress in many other disciplines, such as sensory physiology, genetics and evolutionary theory, it marks the emergence of behavioural ecology as a fully fledged discipline..... This is a marvellous book, written in a lucid style. A must-read for those in the field, it is also a cornucopia of new thinking for anyone interested in evolution and behaviour." Manfred Milinski, Nature, 2012

Sustainable Ecological Systems - W. Wallace Covington 1994

"This conference brought together scientists and managers from federal, state, and local agencies, along with private-sector interests, to examine key concepts involving sustainable ecological systems, and ways in which to apply these concepts to ecosystem management. Session topics were: ecological consequences of land and water use changes, biology of rare and declining species and habitats, conservation biology and restoration ecology, developing and applying ecological theory to management of ecological systems and forest health, and sustainable ecosystems to respond to human needs. A plenary session established the philosophical and historical contexts for ecosystem management."--Title page verso.

Bibliography on the Control and Management of the Coyote and Related Canids with Selected References on Animal Physiology, Behaviour, Control Methods and Reproduction - E. H. Dolnick 1976

Marine Mammal Biology - A. Rus Hoelzel 2009-04-01

This book provides a general introduction to the biology of marine mammals, and an overview of the adaptations that have permitted mammals to succeed in the marine environment. Each chapter, written by experts in their field, will provide an up-to-date review and present the major discoveries and innovations in the field. Important technical advances such as satellite telemetry and time-depth-recorders will be described in boxes.

Coyotes - Marc Bekoff 2001-11-01

Originally published in 1978, this text pulls together much disparate research in coyote evolution, taxonomy, reproduction, communication, behavioral development, population dynamics, and ecological studies in the Southwest, Minnesota, Iowa, New England, and Wyoming. (Animals/Pets)

Tinbergen's Legacy - Simon Verhulst 2009-01-15

Nobel laureate Niko Tinbergen laid the foundations for the scientific study of animal behavior with his work on causation, development, function and evolution. In this book, an international cast of leading animal biologists reflect on the enduring significance of Tinbergen's groundbreaking proposals for modern behavioral biology. It includes a reprint of Tinbergen's original article on the famous "four whys" and a contemporary introduction, after which each of the four questions are discussed in the light of contemporary evidence. Also discussed is the wider significance of recent trends in evolutionary psychology and neuroecology to integrate the "four whys". With a foreword by one of Tinbergen's most prominent pupils, Aubrey Manning, this wide-ranging book demonstrates that Tinbergen's views on animal behavior are crucial for modern behavioral biology. It will appeal to graduate students and researchers in animal behavior, behavioral ecology and evolutionary biology.

Foraging - David W. Stephens 2008-09-15

Foraging is fundamental to animal survival and reproduction, yet it is much more than a simple matter of finding food; it is a biological imperative. Animals must find and consume resources to succeed, and they make extraordinary efforts to do so. For instance, pythons rarely eat, but when they do, their meals are large—as much as 60 percent larger than their own bodies. The snake's digestive system is normally dormant, but during digestion metabolic rates can increase fortyfold. A python digesting quietly on the forest floor has the metabolic rate of thoroughbred in a dead heat. This and related foraging processes have broad applications in ecology, cognitive science, anthropology, and conservation biology—and they can be further extrapolated in economics, neurobiology, and computer science. Foraging is the first comprehensive review of the topic in more than twenty years. A monumental undertaking, this volume brings together twenty-two experts from throughout the field to offer the latest on the mechanics of foraging, modern foraging theory, and foraging ecology. The fourteen essays cover all the relevant issues, including cognition, individual behavior, caching behavior, parental behavior, antipredator behavior, social behavior, population and community ecology, herbivory, and conservation. Considering a wide range of taxa, from birds to mammals to amphibians, Foraging will be the definitive guide to the field.

Medicine and Surgery of Camelids - Murray Fowler 2011-07-26

Medicine and Surgery of Camelids is the classic comprehensive reference on llamas, alpacas, vicunas, guanacos, and camels. With information on topics ranging from nutrition and management to infectious diseases and emergency care, this book provides information on the health and maintenance of these species. Updates to the Third Edition include new information on camels; full color throughout; significant revisions to the parentage verification, infectious diseases, anesthesia, restraint, and nutrition sections; and additional information on the alpaca genome. This is an essential resource for practicing veterinarians, zoo veterinarians, and veterinary students.

Ecological Morphology - Peter C. Wainwright 1994-08-15

Ecological morphology examines the relation between an animal's anatomy and physiology—its form and function—and how the animal has evolved in and can inhabit a particular environment. Within the past few years, research in this relatively new area has exploded. Ecological Morphology is a synthesis of major concepts and a demonstration of the ways in which this integrative approach can yield rich and surprising results. Through this interdisciplinary study, scientists have been able to understand, for instance, how bat wing design affects habitat use and bat diet; how the size of a predator affects its ability to capture and eat certain prey; and how certain mosquitoes have evolved physiologically and morphologically to tolerate salt-water habitats. Ecological Morphology also covers the history of the field, the role of the comparative method in studying adaptation, and the use of data from modern organisms for understanding the ecology of fossil communities. This book provides an overview of the achievements and potential of ecological morphology for all biologists and students interested in the way animal design, ecology, and evolution interact.

Psychology of Learning and Motivation - 1981-01-12

Psychology of Learning and Motivation

The Natural History of the Crustacea: Reproductive Biology - Rickey Cothran 2020-04-24

This is the sixth volume of a ten-volume series on The Natural History of the Crustacea. The volume synthesizes in nineteen chapters our current understanding of diverse topics in crustacean reproductive biology. In the first part of this book, the chapters address allocation strategies to reproduction, gamete production, brooding behavior, and other components of parental care in crustaceans. The second part of the volume centers on sexual systems in crustaceans. The third section of the volume covers crustacean mating systems and sexual selection. Reproductive Biology ends with three chapters covering diverse topics including reproductive rhythms, crustacean personality research, and record breaking crustaceans with respect to reproductive characters.

Foundations of Space Biology and Medicine: Ecological and physiological bases of space biology and medicine. 2 v - 1975