

The Ecology And Behavior Of Amphibians

The Ecology and Behavior of Amphibians An Introduction to Behavioural Ecology Behavioral Mechanisms in Evolutionary Ecology Model Systems in Behavioral Ecology Ecological Perspectives in Behavior Analysis Evolutionary Ecology and Human Behavior Animal Behavior Phylogeny, Ecology, and Behavior The Ecology and Behavior of Amphibians Ecology and Behavior of Chickadees and Titmice Animal Behavior Desk Reference Foraging Cooperative Breeding in Vertebrates Insect Ecology Animal Behavior New World Primates Snakes Behavioral Ecology of Tropical Animals Primate Behavioral Ecology Insect Ecology Kentwood D. Wells Nicholas B. Davies Leslie Real Lee Alan Dugatkin Ann K. Rogers-Warren Eric Alden Smith Lee C. Drickamer Daniel R. Brooks Kentwood D. Wells Ken A. Otter Edward M. Barrows David W. Stephens Walter D. Koenig Peter W. Price Lee C. Drickamer Warren G. Kinzey Richard A. Seigel Regina H. Macedo Karen B. Strier Peter W. Price

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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

the third edition of this successful textbook looks again at the influence of natural selection on behavior an animal's struggle to survive by exploiting resources avoiding predators and maximizing reproductive success in this edition new examples are introduced throughout many illustrated with full color photographs in addition important new topics are added including the latest techniques of comparative analysis the theory and application of dna fingerprinting techniques extensive new discussion on brood parasite host coevolution the latest ideas on sexual selection in relation to disease resistance and a new section on the intentionality of communication written in the lucid style for which these two authors are renowned the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text this book will be essential reading for students taking courses in behavioral ecology the leading introductory text from the two most prominent workers in the field second colour in the text new section of four colour plates boxed sections to illustrate difficult and important points new larger format with marginal notes to guide the reader through the text selected further reading at the end of each chapter

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

a key way that behavioral ecologists develop general theories of animal behavior is by studying one species or a closely related group of species model systems over a long period this book brings together some of the field's most respected researchers to describe why they chose their systems how they integrate theoretical conceptual and empirical work lessons for the practice of the discipline and potential avenues of future research their model systems encompass a wide range of animals and behavioral issues from dung flies to sticklebacks dolphins to african wild dogs from foraging to aggression territoriality to reproductive suppression model systems in behavioral ecology offers an unprecedented systems focus and revealing insights into the confluence of personal curiosity and scientific inquiry it will be an invaluable text for behavioral ecology courses and a helpful overview and a preview of coming developments for advanced researchers the twenty five chapters are divided into four sections insects and arachnids amphibians and reptiles birds and mammals in addition to the editor the contributors include geoff a parker thomas d seeley naomi pierce kern reeve gerald s wilkinson bert hölldobler and flavio roces george w uetz michael j ryan and gil rosenthal judy stamps h carl gerhardt barry sinervo robert warner manfred milinski david f westneat alan c kamil and alan b bond paul sherman jerram l brown anders pape møller marc bekoff richard c connor joan b silk christopher boesch scott creel a h harcourt and tim caro and m j kelly

à required reading for anyone interested in the economy ecology and demography of human societies american journal of human biology this excellent book can serve both as a text¹/₄book and as a scholarly reference american scientist

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

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chickadees and titmice are among the most popular birds in north america due in large part to their readiness to use bird feeders to nest in urban gardens and even to be trained to take food from people s hands these attributes have also made them and their eurasian tit counterparts perhaps the most intensively studied bird family in the world long term research in europe has yielded some of the most comprehensive data on the impact of global warming on the breeding ecology of birds chickadees have amongst the best studied and most complex vocal behaviour of any bird species displaying one of the closest analogies to human sentence structure in the animal kingdom in their familiar chick a dee call the social dominance hierarchies commonly witnessed in the form of squabbling at winter feeders are some of most stable and closely studied and have huge impacts on controlling the lives of these small birds their food storing behavior and the brain and physiological mechanisms controlling this has contributed significantly to our wider understanding of spatial orientation in recent years these birds have also been used as model species for investigating topics as diverse as inter species hybridization the impacts of forest fragmentation and complex systems of communication in short chickadees and

titmice have contributed enormously to our understanding of a myriad of topics in ecology behavior and psychology this book brings together a range of experts from across north america who utilise chickadees or titmice as study organisms each chapter reviews the latest advances in evolution and behavioral research that have been accomplished through the study of north american parids and compares and contrasts this literature with research on their eurasian counterparts as well as other avian families this research level text is aimed at professional avian biologists and ornithologists as well as graduate students of avian behavioral ecology and evolution it will also appeal to a more general audience of behavioural ecologists neuroethologists and experimental psychologists

revised and updated containing over 5 000 entries with over 1 100 more entries than in the previous edition animal behavior desk reference second edition a dictionary of behavior ecology and evolution provides definitions for terms in animal behavior biogeography evolution ecology genetics psychology statistics systematics and other

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

brings together long term studies of cooperation in vertebrates that challenge our understanding of the evolution of social behavior

combining breadth of coverage with detail this logical and cohesive introduction to insect ecology couples concepts with a broad range of examples and practical applications it explores cutting edge topics in the field drawing on and highlighting the links between

theory and the latest empirical studies the sections are structured around a series of key topics including behavioral ecology species interactions population ecology food webs communities and ecosystems and broad patterns in nature chapters progress logically from the small scale to the large from individual species through to species interactions populations and communities application sections at the end of each chapter outline the practicality of ecological concepts and show how ecological information and concepts can be useful in agriculture horticulture and forestry each chapter ends with a summary providing a brief recap followed by a set of questions and discussion topics designed to encourage independent and creative thinking

enth most papers presented in a symposium on nov 19 1988 at the annual meeting of the american anthropological association in phoenix ariz

a comprehensive reference for herpetologists biologists and others interested in such aspects of snakes as their population genetics neurobiology functional morphology behavioral ecology and evolution also includes a chapter on strategies for conservation acidic paper annotation copyright by book news inc portland or

advances in the study of behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior that number is still expanding this thematic volume makes another important contribution to the development of the field by bringing together material that aggregates studies conducted on the behavior of tropical animals advances in the study of behavior is now available online at sciencedirect full text online from volume 30 onward

this comprehensive introductory text integrates evolutionary ecological and demographic perspectives with new results from field studies and contemporary noninvasive molecular and hormonal techniques to understand how different primates behave and the significance of these insights for primate conservation each chapter is organized around the major research themes in the field with strier emphasizing the interplay between theory observations and conservation issues examples are drawn from the classic primate field studies as well as more recent studies on previously neglected species illustrating the vast behavioral variation that exists across the primate order primate behavioral ecology 5th edition also examines how anthropogenic activities are negatively impacting primate populations including a thorough analysis of behavioural plasticity and its implications this fully updated new edition incorporates exciting new discoveries and the most up to date approaches in the field to provide an invaluable overview of the field of primate behavioral ecology and its applications to primate conservation it is considered to be a must read for all students interested in primates

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