

The African Wild Dog Behavior Ecology And

Animal Behaviour Conservation Behavior An Introduction to Behavioural Ecology Evolutionary Ecology and Human Behavior Behavioral Ecology and Conservation Biology Collective Animal Behavior The Behavior, Ecology and Evolution of Cichlid Fishes Sensory Ecology, Behaviour, and Evolution Animal Behaviour Carnivore Behavior, Ecology, and Evolution Behavioural Responses to a Changing World Behavioral Ecology of Tropical Animals Evolutionary Behavioral Ecology and Psychopathy Topics in Animal Behavior, Ecology, and Evolution Behavioural Ecology Animal Behavior Evolutionary Behavioral Ecology Living in Groups Behavioural Ecology Behavioral Mechanisms in Evolutionary Ecology C. J. Barnard Oded Berger-Tal Nicholas B. Davies Eric Alden Smith Tim Caro David J. T. Sumpter Maria E. Abate Martin Stevens Peter M. Kappeler John L. Gittleman Ulrika Candolin Regina H. Macedo Janko Mededović Etienne Danchin Ken Yasukawa David Westneat Jens Krause John R. Krebs Leslie Real

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the study of animal behaviour particularly from evolutionary and ecological viewpoints has been one of the major growing points in biology over the last 10 to 15 years the degree of quantitative rigour in theoretical observational and experimental approaches to behaviour has increased dramatically as more of the rapidly growing research literature becomes a basic requirement for students reading animal behaviour at undergraduate level there is a need for a readily comprehensible text covering all major aspects of behaviour study to accompany their courses this book based on my first second and third year undergraduate lectures at the University of Nottingham is designed to meet that requirement the book begins with a discussion of the physiological and anatomical bases of behaviour the relationship between nervous system structure and function and behaviour hormonal effects on behaviour biological clocks perceptual mechanisms and stimulus filtering this leads to a consideration in chapter 2 of how the animal integrates internal and external stimuli in making decisions about its behaviour and the way natural selection has shaped decision making processes and the organisation of motivation the first two chapters therefore deal with the instigation or causation of behaviour within the animal chapters 3 and 4 deal with developmental aspects of behaviour chapter 3 discusses behaviour genetics including the relationship between specific genes and behaviour the heritability of behaviour patterns the site of gene action in the body and the evolutionary consequences of a genetic basis to behaviour

conservation behavior assists the investigation of species endangerment associated with managing animals impacted by anthropogenic activities it employs a theoretical framework that examines the mechanisms development function and phylogeny of behavior variation in order to develop practical tools for preventing biodiversity loss and extinction developed from a symposium held at the international congress on conservation biology in 2011 this is the first book to offer an in depth logical framework that identifies three vital areas for understanding conservation behavior anthropogenic threats to wildlife conservation and management protocols and indicators of anthropogenic threats bridging the gap

between behavioral ecology and conservation biology this volume ascertains key links between the fields explores the theoretical foundations of these linkages and connects them to practical wildlife management tools and concise applicable advice adopting a clear and structured approach throughout this book is a vital resource for graduate students academic researchers and wildlife managers

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

evolutionary ecology has grown into an exciting and dynamic area of research in the biological sciences only recently however has there been noteworthy progress in adapting theory concepts and models from this field for analysis of human behavior and evolution

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

the book combines traditional approaches to behavioral ecology with ideas about self organization and complex systems from physics and mathematics

this volume constitutes the most recent and most comprehensive consideration of the largest family of bony fishes the cichlidae this book offers an integrated perspective of cichlid fishes ranging from conservation of threatened species to management of cichlids as invasive species themselves long standing models of taxonomy and systematics are subjected to the most recent applications and interpretations of molecular evidence and multivariate analyses and cichlid adaptive radiations at different scales are elucidated the incredible diversity of endemic cichlid species in african lakes is revisited as possible examples of sympatric speciation and as serious cases for management in complex anthropogenic environments extreme hydrology and bathymetry as driver of micro allopatric speciation is explored in the african riverine hotspot of diversity of the lower congo river dramatic new molecular evidence draws attention to the complex taxonomy and systematics of neotropical cichlids including the crater lakes of

central america molecular genetics genomics imaging tools and field study techniques assess the roles of natural sexual and kin selection in shaping cichlid traits and beyond the complex behavioral adaptations of cichlids are considered from a number of sub disciplines including sensory biology neurobiology development and evolutionary ecology most importantly this volume puts forth a wealth of new interpretations explanatory hypotheses and proposals for practical management and applications that will shape the future for these remarkable fishes in nature as well as their use as models for the study of biology

throughout their lives animals must complete many tasks including finding food avoiding predators attracting mates and navigating through a complex and dynamic environment consequently they have evolved a staggering array of sensory organs that are fundamental to survival and reproduction and shape much of their evolution and behaviour sensory ecology deals with how animals acquire process and use information in their lives and the sensory systems involved it investigates the type of information that is gathered by animals how it is used in a range of behaviours and the evolution of such traits it deals with both mechanistic questions e g how sensory receptors capture information from the environment and how the physical attributes of the environment affect information transmission and functional questions e g the adaptive significance of the information used by the animal to make a decision recent research has dealt more explicitly with how sensory systems are involved with and even drive evolutionary change including the formation of new species sensory ecology behaviour and evolution provides a broad introduction to sensory ecology across a wide range of taxonomic groups covering all the various sensory modalities e g sound visual chemical magnetic and electric relating to diverse areas spanning anti predator strategies foraging mate choice navigation and more with the aim being to illustrate key principles and differences this accessible textbook is suitable for senior undergraduates graduate students and professional academics taking courses or conducting research in sensory ecology biology neuroethology behavioural and evolutionary ecology communication and signalling it will also be of relevance and use to psychologists

interested in sensory information and behaviour

this textbook presents all basic principles of animal behaviour in a clear and concise manner and illustrates them with up to date examples emphasis is placed on behavioural biology as an integrative discipline of organismic biology focusing on the adaptive value of behaviours that facilitate resource access predator avoidance and reproductive success and underlie parental care all within a comprehensive presentation of social complexity this new textbook provides a rich resource for students and teachers from a wide range of life science disciplines

the mammalian order carnivora is characterized by an incredible range of morphological ecological and behavioral variation carnivores can be as small as the 100 gram least weasel or as large as the 800 kilogram polar bear their reproductive rate can vary from one offspring every five years as with some black bears to three litters a year as with the dwarf mongoose group sizes can be traced along a wide continuum from the solitary ermine to the monogamous golden jackal to the large extended packs of as many as 80 spotted hyenas until recently the general habits of most wild carnivore species were inadequately understood in the last decade however improved technologies including the use of radiotelemetry and night vision scopes have led to many important discoveries this book is at once a critical summary and an evaluation of current research on carnivores a worthy successor to r f ewer s monumental volume the carnivores cornell university press it is the work of 30 leading carnivore biologists who here assemble comparative data on the basic anatomical behavioral ecological physiological reproductive and evolutionary characteristics of this group after a general introduction to the carnivora the volume is divided in three parts each of which begins with a brief introduction outlining its main themes part i behavior covers acoustic and olfactory communication behavioral development behavioral ecology of canids and hyaenids modes of solitary living and group living in part ii ecology topics include feeding ecology of the giant panda and asiatic black bear adaptations for aquatic living ecological constraints on predation in felids consequences of small size in

mustelids rate of basal metabolism and food habits and reproductive output part iii evolution deals with the morphological approaches to phylogeny and the fossil record an appendix presents a complete classification of the carnivora including topics of continuing controversy highlighting recent developments in the study of the carnivora and areas for further research this broad synthesis will be of great value of students and researchers in animal behavior behavioral ecology wildlife ecology mammalogy paleontology systematics and evolution theory it will also encourage realistic conservation programs to manage rapidly diminishing populations and will elucidate particular features of the carnivores for nonspecialist readers

species are typically adapted to the local environmental conditions in which they have evolved

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 book examines the study of psychopathy using behavioral ecological framework it consists of two parts the first describes the science of human behavioral ecology including basic concepts of evolutionary biology evolutionary behavioral sciences evolutionary ecology of family evolutionary tradeoffs life history theory behavioral ecology of personality psychopathy and its current evolution the second part of the book describes empirical research on psychopathy in evolutionary ecological context aiming to explore fertility longevity tradeoffs in psychopathy interacting phenotypes in psychopathy and parental effects associated with psychopathy this part contains the discussion of the study's findings which is based on several theoretical concepts described in part one this

volume is ideal for psychopathy researchers hoping to bridge the natural and social sciences in a new and innovative way

behavioural ecology gives a fresh contemporary account of the evolutionary and ecological processes that underpin animal behaviour contributions from subject experts and meticulous editing yield a text with all the qualities of a multi author book but without the potential drawbacks

discover why animals do what they do based on their genes physiologies cultures traditions survival and mating advantages and evolutionary histories and find out how studying behavior in the animal world helps us understand human behavior the three volumes of animal behavior how and why animals do the things they do cover the breadth of the field addressing causation development function and evolution in a wide range of animals from invertebrates to humans inspired by nobel laureate nikolaas tinbergen s work the first two volumes follow tinbergen s four classic questions of animal behavior while the third volume supplies integrated examples of tinbergen s investigative process applied in specific cases written in an engaging accessible manner ideal for college students as well as general audiences this evidence based collection provides a fascinating tour of animal behaviorists findings such as how animal communication can be truthful or deceitful the deadly serious business behind clashes in the battle of the sexes and how documentation of animal behavior can lead to a deeper understanding of human behavior each chapter provides both historical background and information about current developments in animal behavior knowledge

evolutionary behavioral ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists

shoals swarms flocks herds group formation is a widespread phenomenon in animal populations it raises several interesting questions for behavioral ecologists

why do animals form and live in groups and what factors influence the ways in which they do this what are the costs and benefits to an animal of group living how are these influenced by ecological factors the authors familiarize the reader with cutting edge ideas on the ecology and evolution of group living animals and detail fascinating case studies demonstrating them in action

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

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