

AN INTRODUCTION TO
**BEHAVIOURAL
ECOLOGY**
FOURTH EDITION



NICHOLAS B. DAVIES / JOHN R. KREBS / STUART A. WEST

 WILEY-BLACKWELL

An Introduction To Behavioural Ecology

Jeffrey R. Lucas, Leigh W. Simmons



An Introduction To Behavioural Ecology:

An Introduction to Behavioural Ecology Nicholas B. Davies, John R. Krebs, Stuart A. West, 2012-04-09 Preceded by An introduction to behavioural ecology J R Krebs N B Davies 3rd ed c1993 *An Introduction to Behavioural Ecology* Nicholas B. Davies, John R. Krebs, 2009-07-17 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 *Intro Behav. Ecology 2e Cloth* Krebs, 1986-12-01 *Introduction to Behavioural Ecology* J. R. Krebs, N. B. Davies, 1985 *An Introduction to Behavioural Ecology* Nicholas B. Davies, John R. Krebs, Stuart A. West, 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 **Behavioural Ecology** John R. Krebs, Nicholas B. Davies, 2009-07-17 Intended for graduate and upper level undergraduate courses in behavioural ecology where students are already familiar with the basic ideas this book continues to define the subject. A completely new set of contributions has been brought together once more to take account of the many exciting new developments in the field. Each chapter presents a balanced view of the subject integrating a clear exposition of the theory with a critical discussion of how predictions have been tested by experiments and comparative studies. In addition the book points to unreconciled issues and possible future developments. Edited by two of the most highly regarded experts in the field this new volume contains contributions from an international authorship and continues the tradition of clarity and accessibility established by the three previous editions. The latest edition of a classic in behavioural ecology. Divided into three sections: Mechanisms and Individual Behaviour, From Individual Behaviour to Social Systems and Life Histories, Phylogenies and Populations. Contributions from the world's leading researchers.

Modelling in Behavioural Ecology Dennis Lendrem, 2012-12-06 In the early years of this century a Scottish doctor speculated on the evolutionary origin of human tears. It seemed to him that with the increase in brain size and cognitive powers of our early ancestors many events in the struggle for existence would be just too distressing to observe. How comforting then for the mother distraught by the sight of her child being devoured by a lion to cloud her vision with a flood of tears. Just so though if the good doctor had pondered further the following picture might have occurred to him comfortable in his speculative armchair and given him some pause for thought.

e I VII viii SERIES EDITOR S FOREWORD These stories do not of course get us very far in explaining the evolution of tears or anything else but they do remind us how far the study of behavioural adaptation has come this century. This is in fact an exciting time for students of behaviour. The last twenty years have seen a great advance in the theoretical armoury for tackling problems of behavioural evolution and adaptation and a parallel expansion in empirical studies particularly in the field. The concepts of inclusive fitness and evolutionary stability for example have helped to explain major features of social behaviour and have generated entirely new questions and predictions for the field worker to examine.

Model Systems in Behavioral Ecology Lee Alan Dugatkin, 2019-12-31 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 H Ildobler 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 M ller Marc Bekoff Richard C Connor Joan B Silk Christopher Boesch Scott Creel A H Harcourt and Tim Caro and M J Kelly *Essays in Animal Behaviour* Jeffrey R. Lucas, Leigh W. Simmons, 2005-11-07 Recently the 50th anniversary of the publication of *Animal Behaviour* has passed To mark the occasion a group of prominent behaviourists have written essays relevant to their fields These essays provide a glimpse of the study of behaviour looking in all directions History and future aside it is imperative to broadcast this information from the perspective of the behaviourists who have helped shape both the past and the future It is important for any field to be both retrospective and prospective where have we been where are we going where are we now These essays provide a unique personal reflection on the history of animal behaviour from John Alcock Stuart and Jeanne Altmann Steve Arnold Geoff Parker and Felicity Huntingford Six topics are reflected on and include The History of Animal Behavioural Research Proximate Mechanisms Development Adaptation and Animal Welfare Broad range of essays on animal behaviour Written by leaders in the field Offers a history of the study of behaviour plus essays on the future of behavioural studies Contains over 30 full color illustrations Includes essays on development mechanisms and adaptive significance of behaviour **The Behavioural Ecology of Parasites** E. E. Lewis, J. F. Campbell, M. V. K. Sukhdeo, 2002-07-17 Parasites have evolved numerous complex and fascinating ways of interacting with their hosts The subject attracts the interest of numerous biologists from the perspective of ecology and behavioural biology as well as from those concerned with more applied aspects of parasitology However until now there has been no recent book to synthesize this field This book written by leading authorities from the USA Europe Australia and New Zealand provides the most comprehensive coverage of this important topic on the market *Cognition, Evolution, and Behavior* Sara J. Shettleworth, 2010-04-10 How do animals perceive the world learn remember search for food or mates communicate and find their way around Do any nonhuman animals count imitate one another use a language or have a culture What are the uses of cognition in nature and how might it have evolved What is the current status of Darwin s claim that other species share the same mental powers as humans but to different degrees In this completely revised second edition of *Cognition Evolution and Behavior* Sara Shettleworth addresses these questions among others by integrating findings from psychology behavioral ecology and ethology in a unique and wide ranging synthesis of theory and research on animal cognition in the broadest sense from species specific adaptations of vision in fish and associative learning in rats to discussions of theory of mind in chimpanzees dogs and ravens She reviews the latest research on topics such as episodic memory metacognition and cooperation and other regarding behavior in animals as well as recent theories about what makes human cognition unique In every part of this new edition Shettleworth incorporates findings and theoretical approaches that have emerged since the

first edition was published in 1998 The chapters are now organized into three sections Fundamental Mechanisms perception learning categorization memory Physical Cognition space time number physical causation and Social Cognition social knowledge social learning communication Shettleworth has also added new chapters on evolution and the brain and on numerical cognition and a new chapter on physical causation that integrates theories of instrumental behavior with discussions of foraging planning and tool using

Encyclopedia of Animal Behavior ,2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior

Section editors drawn from around the world represent the best and the brightest among today's behavioral biologists and have recruited a broad range of internationally recognized experts. Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities.

The Behavioural Ecology of Ants J.H. Sudd, N.R. Franks, 2013-03-09 This book is concerned with two problems: how eusociality in which one individual forgoes reproduction to enhance the reproduction of a nestmate could evolve under natural selection and why it is found only in some insects: termites, ants and some bees and wasps. Although eusociality is apparently confined to insects, it has evolved a number of times in a single order of insects, the Hymenoptera. W. Hamilton's hypothesis that the unusual haplodiploid mechanism of sex determination in the Hymenoptera singled this order out still seems to have great explanatory power in the study of social ants. We believe that the direction, indeed confinement of social altruism to close kin is the mainspring of social life in an ant colony and the alternative explanatory schemes of, for example, parental manipulation should rightly be seen to operate within a system based on the selective support of kin. To control the flow of resources within their colony, all its members resort to manipulations of their nestmates: parental manipulation of offspring is only one facet of a complex web of manipulation, exploitation and competition for resources within the colony. The political intrigues extend outside the bounds of the colony to insects and plants which have mutualistic relations with ants. In eusociality, some individuals, sterile workers, do not pass their genes to a new generation directly. Instead, they tend the offspring of a close relation, in the simplest case, their mother.

An Introduction to Molecular Ecology Graham Rowe, Michael Sweet, Trevor John Clark Beebe, 2017 Revised edition of Introduction to molecular ecology Trevor J C Beebe, Graham Rowe 2008 2nd ed. Ethology and Behavioral Ecology of Odontocetes Bernd Würsig, 2019-08-02 This book concentrates on the marine mammalian group of Odontocetes, the toothed whales, dolphins and porpoises. In 23 chapters, a total of 40 authors describe general patterns of ethological concepts of odontocetes in their natural environments with a strong bent towards behavioral ecology. Examples are given of particularly well studied species and species groups for which enough data exist, especially from the past 15 years. The aim is to give a modern flavor of present knowledge of ethology and behavior of generally large-brained, behaviorally flexible mammals that have evolved quite separately from social mammals on land. As well, the plight of populations and species due to humans is described in multiple chapters with the goal that an understanding of behavior can help to solve or alleviate at least some human-made problems.

Behaviour and Evolution Peter James Bramwell Slater, Tim Halliday, 1994-09-15 Some of the most exciting recent advances in animal behaviour have occurred at the interface between that subject and the study of evolution. This book, written by experts in this area, illustrates how the profound changes in our understanding of evolution have influenced behavioural research. Its chapters span both studies of how behaviour itself has evolved, dealing with topics such as comparative studies, the genetics of behaviour, speciation and the evolution of sociality and of intelligence, and also the adaptiveness which this evolution has brought about.

with treatment of mating and fighting strategies and theories of kinship and altruism Behaviour and Evolution will be invaluable to senior undergraduate and graduate students of biology and psychology especially those studying animal behaviour behavioural ecology sociobiology evolution ecology and environmental biology **Interpretation And**

Explanation In The Study Of Animal Behavior Ph.D., Marc Bekoff, 2021-11-28 People have long been fascinated not just by the behaviour of non human animals but by the problem of how this behaviour is to be interpreted and explained This is one of two volumes of original essays on the cognitive and emotional dimensions of non human minds and the relationship of natural minds to behaviour The essays also address questions concerning the meaning and significance of consciousness animal intelligence awareness and emotions behavioural plasticity flexibility and constraints on understanding animal minds and the structure of explanation in the study of behaviour **An Introduction to Game-Theoretic Modelling: Third**

Edition Mike Mesterton-Gibbons, 2019-07-05 This book introduces game theory and its applications from an applied mathematician s perspective systematically developing tools and concepts for game theoretic modelling in the life and social sciences Filled with down to earth examples of strategic behavior in humans and other animals the book presents a unified account of the central ideas of both classical and evolutionary game theory Unlike many books on game theory which focus on mathematical and recreational aspects of the subject this book emphasizes using games to answer questions of current scientific interest In the present third edition the author has added substantial new material on evolutionarily stable strategies and their use in behavioral ecology The only prerequisites are calculus and some exposure to matrix algebra probability and differential equations *Primate Behavioral Ecology* Karen B. Strier, 2021-07-29 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 including many previously neglected species to illustrate the vast behavioral variation that exists across the primate order *Primate Behavioral Ecology* 6th Edition integrates the impacts of anthropogenic activities on primate populations including zoonotic disease and climate change and considers the importance of behavioral flexibility for primate conservation This fully updated new edition brings exciting new methods theoretical perspectives and discoveries together to provide an incomparable 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

Evolutionary Behavioral Ecology David Westneat, Charles W. Fox, 2010-04 *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

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