

M F Land & D-E Nilsson

Animal Eyes



OXFORD ANIMAL BIOLOGY SERIES

Animal Eyes Oxford Animal Biology Series

Dan-Eric Nilsson, Michael F. Land



Animal Eyes Oxford Animal Biology Series:

Animal Eyes Dan-Eric Nilsson, Michael F. Land, This is a comparative account of all the types of eye in the animal kingdom which includes their optical systems form and function ecology and evolution book cover *Animal Eyes* Michael F. Land, Dan-Eric Nilsson, 2012-03 This book covers the way that all known types of eyes work from their optics to the behaviour they guide The ways that eyes sample the world in space and time are considered and the evolutionary origins of eyes are discussed This new edition incorporates discoveries made since the first edition published in 2001 *Animal Osmoregulation* Timothy J. Bradley, 2009 Osmoregulation and water balance are essential topics in animal physiology This book starts with the physical properties of water and the influence that it has on biological design It then looks at the effect of the environment on physiology Finally it studies how the evolutionary history of the animal influences the solution employed

Animal Architecture Mike Hansell, 2004-12-23 Construction behaviour occurs across the entire spectrum of the animal kingdom and affects the survival of both builders and other organisms associated with them Animal Architecture provides a comprehensive overview of the biology of animal building The book recognizes three broad categories of built structure homes traps and courtship displays Even though some of these structures are complex and very large the behaviour required to build them is generally simple and the anatomy for building unspecialized Standardization of building materials helps to keep building repertoires simple while self organizing effects help create complexity In a case study approach to function insects demonstrate how homes can remain operational while they grow spiderwebs illustrate mechanical design and the displays of bowerbirds raise the possibility of persuasion through design rather than just decoration Studies of the costs to builders provide evidence of optimal designs and of trade offs with other life history traits As ecosystem engineers the influence of builders is extensive and their effect is generally to enhance biodiversity through niche construction Animal builders can therefore represent model species for the study of the emerging subject of environmental inheritance Building and in particular building with silk has been demonstrated to have important evolutionary consequences This book is intended for students and researchers in comparative animal biology but will also be of relevance and use to the increasing numbers of architects and civil engineers interested in developing ideas from the animal kingdom

Animal Architecture Michael Henry Hansell, 2005-01-27 Construction behaviour occurs across the entire spectrum of the animal kingdom and affects the survival of both builders and other organisms associated with them Animal Architecture provides a comprehensive overview of the biology of animal building The book recognizes three broad categories of built structure homes traps and courtship displays Even though some of these structures are complex and very large the behaviour required to build them is generally simple and the anatomy for building unspecialized Standardization of building materials helps to keep building repertoires simple while self organizing effects help create complexity In a case study approach to function insects demonstrate how homes can remain operational while they grow spiderwebs

illustrate mechanical design and the displays of bowerbirds raise the possibility of persuasion through design rather than just decoration. Studies of the costs to builders provide evidence of optimal designs and of trade offs with other life history traits. As ecosystem engineers the influence of builders is extensive and their effect is generally to enhance biodiversity through niche construction. Animal builders can therefore represent model species for the study of the emerging subject of environmental inheritance. Building and in particular building with silk has been demonstrated to have important evolutionary consequences. This book is intended for students and researchers in comparative animal biology but will also be of relevance and use to the increasing numbers of architects and civil engineers interested in developing ideas from the animal kingdom.

Flying Insects and Robots Dario Floreano, Jean-Christophe Zufferey, Mandyam V. Srinivasan, Charlie Ellington, 2009-10-23. Flying insects are intelligent micromachines capable of exquisite maneuvers in unpredictable environments. Understanding these systems advances our knowledge of flight control sensor suites and unsteady aerodynamics which is of crucial interest to engineers developing intelligent flying robots or micro air vehicles (MAVs). The insights we gain when synthesizing bioinspired systems can in turn benefit the fields of neurophysiology, ethology and zoology by providing real life tests of the proposed models. This book was written by biologists and engineers leading the research in this crossdisciplinary field. It examines all aspects of the mechanics, technology and intelligence of insects and insectoids. After introductory level overviews of flight control in insects, dedicated chapters focus on the development of autonomous flying systems using biological principles to sense their surroundings and autonomously navigate. A significant part of the book is dedicated to the mechanics and control of flapping wings both in insects and artificial systems. Finally, hybrid locomotion, energy harvesting and manufacturing of small flying robots are covered. A particular feature of the book is the depth on realization topics such as control engineering, electronics, mechanics, optics, robotics and manufacturing. This book will be of interest to academic and industrial researchers engaged with theory and engineering in the domains of aerial robotics, artificial intelligence and entomology.

Handbook of Visual Optics, Two-Volume Set Pablo Artal, 2017-06-27. Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics. It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction, integrating expert knowledge from physics, medicine, biology, psychology and engineering. The chapters comprehensively cover all aspects of modern study and practice from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing, devices and techniques for visual correction and the relationship between ocular optics and visual perception.

The Neuroethology of Predation and Escape Keith T. Sillar, Laurence D. Picton, William J. Heitler, 2016-04-01. THE NEUROETHOLOGY OF PREDATION AND ESCAPE. To eat and not get eaten is key to animal survival and the arms race between predators and prey has driven the evolution of many rapid and spectacular behaviours. This book explores the neural mechanisms controlling predation and escape where specialisations in afferent pathways, central circuits

motor control and biomechanics can be traced through to natural animal behaviour Each chapter provides an integrated and comparative review of case studies in neuroethology Ranging from the classic studies on bat biosonar and insect counter measures through to fish eating snails armed with powerful neurotoxins the book covers a diverse and fascinating range of adaptations Common principles of biological design and organization are highlighted throughout the text The book is aimed at several audiences for lecturers and students This synthesis will help to underpin the curriculum in neuroscience and behavioural biology especially for courses focusing on neuroethology for postgraduate students The sections devoted to your area of specialism will give a flying start to your research reading while the other chapters offer breadth and insights from comparative studies for academic researchers The book will provide a valuable resource and an enjoyable read Above all we hope this book will inspire the next generation of neuroethologists *Spider Physiology and Behaviour* Jerome

Casas,2011-11-29 This latest volume in this series contains articles on Arachnid Physiology and Behaviour The papers in this special issue give rise to key themes for the future Contributions from the leading researchers in entomology Discusses Arachnid physiology and behavior Includes in depth reviews with valuable information for a variety of entomology disciplines

Tunable Micro-optics Hans P. Zappe,Hans Zappe,Claudia Duppé,2016 The first comprehensive survey of state of the art tunable micro optics covering advances in materials components and systems

This book delves into Animal Eyes Oxford Animal Biology Series. Animal Eyes Oxford Animal Biology Series is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Animal Eyes Oxford Animal Biology Series, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Animal Eyes Oxford Animal Biology Series
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