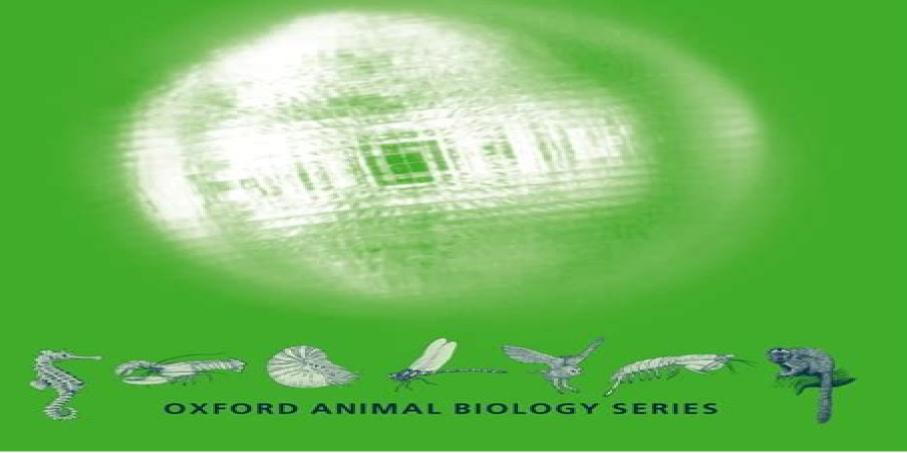
M F Land & D-E Nilsson

Animal Eyes



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 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 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 **Animal Architecture** Mike Hansell, 2004-12-23 Construction behaviour occurs across the entire spectrum of employed 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 Architecture** Michael Henry Hansell, 2005-01-27 Construction behaviour occurs across the animal kingdom 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 andthe 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

illustratemechanical 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 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

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 - This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Animal Eyes Oxford Animal Biology Series.

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