

Handbook of Sensory Physiology

Volume VII/1

Photo— chemistry of Vision

Edited by H.J.A. Dartnall



Springer-Verlag
Berlin · Heidelberg · New York

Photochemistry Of Vision Handbook Of Sensory Physiology Vol Vii 1

Antonio Borsellino



Photochemistry Of Vision Handbook Of Sensory Physiology Vol Vii 1:

Photochemistry of Vision Herbert J.A. Dartnall, 2012-12-06 Radiation can only affect matter if absorbed by it Within the broad range of 300 1000 nm which we call the visible light quanta are energetic enough to produce excited electronic states in the atoms and molecules that absorb them In these states the molecules may have quite different properties from those in their dormant condition and reactions that would not otherwise occur become possible About 80 % of the radiant energy emitted by our sun lies in this fertile band and so long as the sun s surface temperature is maintained at about 6000 C this state of affairs will continue This and the transparency of our atmosphere and waters have allowed the generation and evolution of life Before life began the atmosphere probably also transmitted much of the solar short wave radiation but with the rise of vegetation a new product oxygen appeared and this by a photochemical reaction in the upper atmosphere led to the ozone layer that now protects us from the energetic short wave quanta that once perhaps took part in the generation of life molecules Light is an ideal sensory stimulus It travels in straight lines at great speed and consequently can be made to form an image from which an animal can make true continuous and immediate assessments of present and impending events

Neuroethology J.-P. Ewert, 2012-12-06 Historically the search for the neural bases of behavior goes back a long way Neuroethology which is concerned with the experimental analysis of the releasing and control mechanisms of behavior is a young discipline Results from this multidisciplinary branch of research which uses physical chemical and mathematical methods have not yet been extensively treated in textbooks of neurophysiology and ethology This book is intended as a first attempt to pose major questions of neuroethology and to demonstrate by means of selected research examples some of the ways by which these questions are being approached Inevitably this cannot be a complete and in depth detailed treatment of all of the neurobiology examples and I realize that such a selection is of a subjective nature The overall goal of the book is to present an introduction After outlining some of the very basic neurophysiological and ethological concepts Chaps 2 and 3 neuroethological questions and methods are demonstrated extensively by means of a particular example Chap 4 There are two reasons to choose the visually guided prey catching and avoidance behavior of the Common Toad 1 it is a system which I have investigated for about fifteen years and therefore know best 2 the toad story is one of the most comprehensive neuro ethological approaches so far Thus it is possible here to outline the major concepts of neuroethology and to pose the basic questions

Fundamentals of Sensory Physiology R. F. Schmidt, 2013-04-17 Since the first English edition of this book appeared three years ago the authors have received many useful comments from readers In preparing this amended edition we have carefully examined each chapter improving and expanding the text where necessary in the process we have been greatly helped by their remarks Further commentary on this edition will be much appreciated Again I should like to express the gratitude of all the authors to the staff of Springer Verlag for expediting the publication of the book Kiel Germany July 1981 ROBERT F SCHMIDT Preface to the First Edition In the field of sensory physiology we are concerned with what our

sense organs and the associated central nervous structures can do and how that performance is achieved. Research here is not limited to description of the physicochemical reactions taking place in these structures; the conditions under which sensations and perceptions arise and the rules that govern them are also of fundamental interest. Sensory physiology thus demands the attention of everyone who wishes to or must delve into the potentialities and limitations of human experience.

Vision, Brain, and Behavior in Birds Harris Philip Zeigler, Hans-Joachim Bischof, 1993. This book provides the first comprehensive and current review of considerable progress made over the past decade in analyzing neural and behavioral mechanisms mediating visually guided behavior in birds. The visual capacities of birds rival even those of primates and their visual system probably reflects the operation of a ground plan common to all vertebrates. This book provides the first comprehensive and current review of considerable progress made over the past decade in analyzing neural and behavioral mechanisms mediating visually guided behavior in birds. The book's five major sections deal with the visual world of birds: the organization of avian visual systems; the development and plasticity of visual structure and function; visuomotor control mechanisms and cognitive processes. The introduction to each section discusses the nature and significance of the problem areas, providing a context for the chapters to follow, which review the current status of research on a specific problem. The contributors are an international assemblage of researchers representing a wide variety of disciplines ranging from ornithology to neurophysiology and including ethology, experimental psychology, anatomy, and developmental neurobiology. For the ethologist, avian behavior is the source of a wide variety of species-typical fixed action patterns; for the experimental psychologist, birds are the subject of choice for studies of conditioning, learning, and cognitive processes; for the neurobiologist, they provide model systems for studying developmental processes, sensory mechanisms, orientation, and motor control. For these reasons, research on the avian brain and behavior occupies an increasingly important place in contemporary behavioral biology.

Vision in Fishes M. Ali, 2013-06-29. No more than a fish loves water. Is not this a strange fellow, my lord, that so confidently seems to undertake this business which he knows is not to be done? He damns himself to do and dares better be damned than to do it. All's Well That Ends Well, Act III, Sc. 6. This volume is the direct result of a NATO Advanced Study Institute of the same title held at Bishop's University, Lennoxville, Quebec, Canada, August 1974, under the joint sponsorship of the NATO Scientific Advisory Committee, National Research Council of Canada, and the Université de Montréal. It is not, however, strictly restricted to the lectures and seminars presented at the ASI. Contributions have been included from two workers who found at a fairly late stage that they could not attend and also included are a table giving the visual pigments and another dealing with the distribution and development of retinomotor responses. I encouraged the authors to prepare speculative reviews highlighting their own research or that of their immediate colleagues, and a number of them have done so. Several contributors, notably those who were asked to give lectures of a general nature at the ASI, have written reviews of somewhat greater scope. The result is a collection of papers representing a great variety of approaches to the study of vision in fishes.

Outside Color M. Chirimuuta, 2017-07-28 An integrated study of the history philosophy and science of color that offers a novel theory of the metaphysics of color Is color real or illusory mind independent or mind dependent Does seeing in color give us a true picture of external reality The metaphysical debate over color has gone on at least since the seventeenth century In this book M Chirimuuta draws on contemporary perceptual science to address these questions Her account integrates historical philosophical debates contemporary work in the philosophy of color and recent findings in neuroscience and vision science to propose a novel theory of the relationship between color and physical reality Chirimuuta offers an overview of philosophy s approach to the problem of color finds the origins of much of the familiar conception of color in Aristotelian theories of perception and describes the assumptions that have shaped contemporary philosophy of color She then reviews recent work in perceptual science that challenges philosophers accounts of color experience Finally she offers a pragmatic alternative whereby perceptual states are understood primarily as action guiding interactions between a perceiver and the environment The fact that perceptual states are shaped in idiosyncratic ways by the needs and interests of the perceiver does not render the states illusory Colors are perceiver dependent properties and yet our awareness of them does not mislead us about the world Colors force us to reconsider what we mean by accurately presenting external reality and as this book demonstrates thinking about color has important consequences for the philosophy of perception and more generally for the philosophy of mind

Foundations of Colour Science Alexander D. Logvinenko, Vladimir L. Levin, 2022-09-22

Presents the science of colour from new perspectives and outlines results obtained from the authors work in the mathematical theory of colour This innovative volume summarizes existing knowledge in the field attempting to present as much data as possible about colour accumulated in various branches of science physics psychophysics colorimetry physiology from a unified theoretical position Written by a colour specialist and a professional mathematician the book offers a new theoretical framework based on functional analysis and convex analysis Employing these branches of mathematics instead of more conventional linear algebra allows them to provide the knowledge required for developing techniques to measure colour appearance to the standards adopted in colorimetric measurements The authors describe the mathematics in a language that is understandable for colour specialists and include a detailed overview of all chapters to help readers not familiar with colour science Divided into two parts the book first covers various key aspects of light colour such as colour stimulus space colour mechanisms colour detection and discrimination light colour perception typology and light metamerism The second part focuses on object colour featuring detailed coverage of object colour perception in single and multiple illuminant scenes object colour solid colour constancy metamer mismatching object colour indeterminacy and more Throughout the book the authors combine differential geometry and topology with the scientific principles on which colour measurement and specification are currently based and applied in industrial applications Presents a unique compilation of the author s substantial contributions to colour science Offers a new approach to colour perception and measurement

developing the theoretical framework used in colorimetry Bridges the gap between colour engineering and a coherent mathematical theory of colour Outlines mathematical foundations applicable to the colour vision of humans and animals as well as technologies equipped with artificial photosensors Contains algorithms for solving various problems in colour science such as the mathematical problem of describing metameric lights Formulates all results to be accessible to non mathematicians and colour specialists Foundations of Colour Science From Colorimetry to Perception is an invaluable resource for academics researchers industry professionals and undergraduate and graduate students with interest in a mathematical approach to the science of colour *The Visual System in Vertebrates* F. Crescitelli, 2013-12-11 The vertebrate eye has been and continues to be an object of interest and of inquiry for biologists physicists chemists psychologists and others Quite apart from its important role in the development of ophthalmology and related medical disciplines the vertebrate eye is an exemplar of the ingenuity of living systems in adapting to the diverse and changing environments in which vertebrates have evolved The wonder is not so much that the visual system like other body systems has been able to adapt in this way but rather that these adaptations have taken such a variety of forms In a previous volume in this series VII I Eakin expressed admiration for the diversity of invertebrate photoreceptors A comparable situation exists for the vertebrate eye as a whole and one object of this volume is to present to the reader the nature of this diversity One result of this diversification of ocular structures and properties is that the experimental biologist has available a number of systems for study that are unique or especially favorable for the investigation of particular questions in visual science or neurobiology This volume includes some examples of progress made by the use of such specially selected vertebrate systems It is our hope that this comparative approach will continue to reveal new and useful preparations for the examination of important questions *The Visual System of Fish* Ron Douglas, Mustafa Djamgoz, 2012-12-06 A question often asked of those of us who work in the seemingly esoteric field of fish vision is why To some of us the answer seems obvious how many other visual scientists get to dive in a tropical lagoon in the name of science and then are able to eat their subjects for dinner However there are better or at least scientifically more acceptable reasons for working on the visual system of fish First in terms of numbers fish are by far the most important of all vertebrate classes probably accounting for over half c 22 000 species of all recognized vertebrate species Nelson 1984 Furthermore many of these are of commercial importance Secondly if one of the research aims is to understand the human visual system animals such as fish can tell us a great deal since in many ways their visual systems and specifically their eyes are similar to our own This is fortunate since there are several techniques such as intracellular retinal recording which are vital to our understanding of the visual process that cannot be performed routinely on primates The cold blooded fish on the other hand is an ideal subject for such studies and much of what we know about for example the fundamentals of information processing in the retina is based on work carried out on fish e g Svaetichin 1953 Photoreceptors Alan Fein, Ete Zoltan Szuts, 1982-08-31 The mechanism by which photoreceptor

cells in the eyes of higher animals absorb light giving rise to receptor potentials that initiate the visual process is a subject of active research in biophysics today The pace of this research and its multidisciplinary nature have made it difficult for the nonexpert to keep abreast of new discoveries This book aims to provide a more coherent compact summary of our knowledge about the field that has been available serving as an up to date introduction to the role of photoreceptors in vision The book is a self contained concise handbook for the reader who has at least a college level knowledge of cell biology biochemistry physical chemistry neurobiology and physics The authors describe the physical parameters of light and proceed to describe the mechanisms by which photoreceptors extract information about each parameter The discussion of mechanisms is organized by discipline following the general sequence of cellular morphology visual pigment chemistry and receptor physiology Photoreceptors their role in vision is an integrated sourcebook which will serve the novice as a stepping stone to the vast and exciting scientific literature of the field

Underwater Research E.A. Drew, 2013-07-19 Underwater Research is primarily a review of problems in underwater viewing and hearing and acoustics The chapters in this book are papers collated from the symposia of the Underwater Association This book explores the need for the further study of the physiological and psychological reactions of divers The book also concludes that diving is still the best way in studying the benthic ecology and sunken wrecks and cities The text is divided into 25 detailed chapters Most of the topics in the text address the common problems encountered by divers such as in hearing and viewing Specifically problems in diver communication depth estimation color distinction are some of the topics covered Other chapters deal with the psychological reactions such as anxiety narcosis and visual attention Also some chapters tackle solutions and experiments for the improvement of diving techniques and equipment This reference is helpful to divers students and scientists involved in marine and environmental science

Color Vision Werner G. K. Backhaus, Reinhold Kliegl, John S. Werner, 2011-06-24 No detailed description available for Color Vision

Color Vision Karl R. Gegenfurtner, Lindsay T. Sharpe, 2001-05-28 Color Vision first published in 2000 defines the state of knowledge about all aspects of human and primate color vision

Colour Vision Deficiencies XII B. Drum, 2012-12-06 From the 98 presentations of the XIIth Symposium on Colour Vision Deficiencies 61 were selected after peer review and revision by the authors In addition to these contributions this volume contains a cumulative index to all authors in the IRGCD proceedings since the first one in 1968 including the present volume The contents include contributions on basic questions of anatomical and electrophysiological organisation of the neural pathways underlying colour vision and on ways in which disturbances of these pathways can produce acquired colour vision deficiencies Further contributions deal with genetics and congenital red green colour deficiencies and colour vision testing The resulting publication contains much of interest to basic vision scientists as well as to specialists in colour vision deficiencies

Neurophysiological Aspects of Color Vision in Primates E. Zrenner, 2012-12-06 To explain all nature is too difficult a task for anyone man or even for anyone age Tis much better to do a little with certainty and leave the rest for

others that come after you than to explain all things Sir Isaac Newton 1642 1727 This book describes and discusses some new aspects of color vision in primates which have emerged from a series of experiments conducted over the past 8 years both on single ganglion cells in monkey retina and on the visually evoked cortical potential in man corresponding psychophysical mechanisms of human perception will be considered as well An attempt will be made to better understand the basic mechanisms of color vision using a more comprehensive approach which takes into account new mechanisms found in single cells and relates them to those found valid for the entire visual system The processing of color signals was followed up from the retina to the visual cortex and to the perceptual centers as far as the available techniques permitted

The Behavioral Significance of Color Edward H. Burt, Jr., 2018-02-19 Prior to publication the study of animal coloration was plagued by fanciful speculations post hoc explanations and untestable hypotheses This title originally published in 1979 draws together widely scattered research into the coloration of animals formulates predictive hypotheses to account for color documents the accuracy of many of these hypotheses and suggests directions for future research The book grew out of a symposium The Behavioral Significance of Color at the 1977 meeting of the Animal Behavior Society and presents evidence concerning patterns of coloration and their influence on animal behaviour and interaction Physical principles of radiation are discussed in Chapter 1 followed in subsequent chapters by an examination of the physiological functions of animal coloration e.g. thermoregulation hydoregulation abrasion resistance extraretinal photoreception Treatment of coloration that affects the animal's visibility to other animals opens with a masterful overview of theories of color vision and its occurrence throughout the animal kingdom Chapter 6 explores the role of color vision and fruit color in the selection of food by wild primates with comments on the coevolution of fruiting trees and their primate customers Dr Jack P. Hailman addresses the elusive concept of conspicuousness He summarizes a strategy for calculating conspicuous coloration based on measurements in natural habitats Experiments naturalistic observations and anecdotes of optical communication are exceedingly numerous Chapters 8 and 9 review these data and suggest general principles of inter and intraspecific optical communication Each chapter is enhanced by the critical evaluations of Drs C. Richard Tracy and W. J. Hamilton III In closing the editor discusses coloration as it affects an animal's own vision e.g. black eyelines to reduce glare Most significantly the book emphasizes the need for a balanced scientifically rigorous approach to the question of evolution of animal coloration It is an important source for anyone contemplating or currently involved in research in this field of investigation

Photoreceptors Antonio Borsellino, 2013-06-29 This volume originates from a NATO Advanced Study Institute on Photoreceptors dedicated to M. G. F. Fuortes held in Erice 1-12 July 1981 The lectures given at the course provided a general review of the photoreceptors functions in both vertebrate and invertebrate eyes Elaborating on the most recent hypotheses the lectures also added new and interesting details In order to preserve the novelty and freshness of the subject matter and thus ensure the usefulness of the volume the authors in their written contributions emphasize more specific findings of their current research rather than

the tutorial nature of the lectures actually presented The contributors of this volume wish to dedicate their papers to the memory of Mike Fuortes who has been for many of them an inspiring colleague and friend Five papers that do not strictly pertain to the topics of the course are also included in the volume the authors could not attend the meeting but wanted to contribute an article to this memorial volume

Human Physiology R.F. Schmidt,G. Thews,2013-11-11 Human Physiology is the English version of a time honored German textbook first published by HERMANN REIN in 1936 We undertook the preparation of a completely revised 20th edition with the intention of making the book accessible to a wide range of English speaking readers The subject matter was therefore organized so as to correspond to the structuring of physiology courses in most countries of the world The book is directed primarily at students of medicine Its aim is to enable them to understand living processes in the human organism providing the basis for the scientific understanding of pathological changes The material was chosen to give the reader not only the knowledge required for passing examinations but also information necessary for a subsequent professional career For this reason special attention was devoted to pathophysiological aspects We hope that the book will prove a useful reference on the present status of physiology for physicians in private and hospital practice as well as for its primary readership The book should also serve biologists biochemists pharmacologists pharmacists and psychologist as a source of information on the physiological principles underlying their disciplines

Receptors and Recognition P. CUATRECASAS AND M. F. GREAVES,2013-12-01

Photomovement D.-P. Häder,M. Lebert,2001-06-19 This volume emphasizes the involvement of all facets of biology in the analysis of environmentally controlled movement responses This includes biophysics biochemistry molecular biology and as an integral part of any approach to a closer understanding physiology The initial euphoria about molecular biology as the final solution for any problem has dwindled and the field agrees now that only the combined efforts of all facets of biology will at some day answer the question posed more than hundred years ago How can plants see One conclusion can be drawn from the current knowledge as summarized in this volume The answer will most likely not be the same for all systems

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