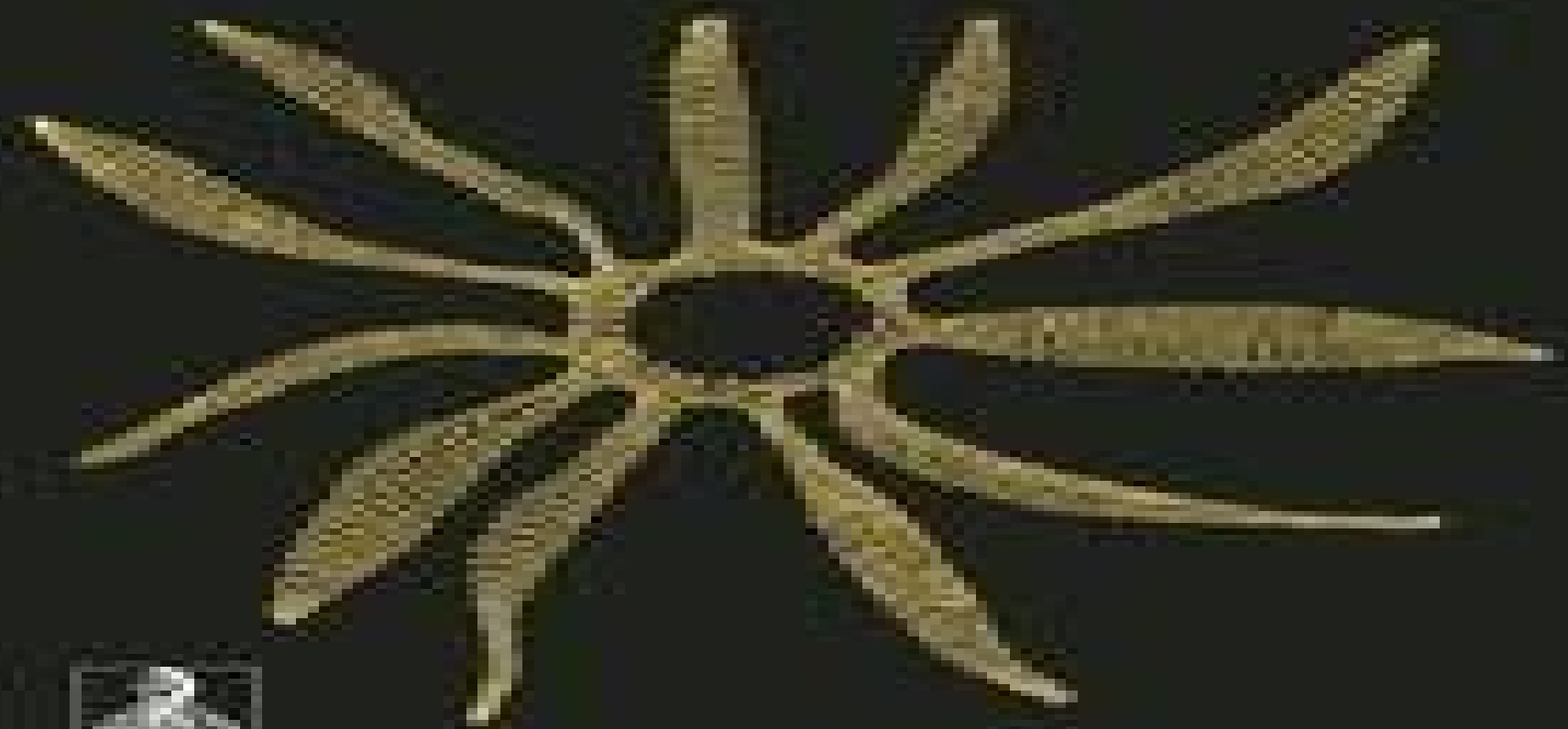


# Photoreceptor Optics

Edited by A. W. Snyder and R. Menzel



Springer-Verlag Berlin Heidelberg New York

# Photoreceptor Optics

**Annelies Wilder-Smith**



## **Photoreceptor Optics:**

*Photoreceptor Optics* A.W. Snyder, R. Menzel, 2012-12-06 The above consideration indicates that at present many of the experimental facts on PS in animals can be quantitatively explained within the limits of the universal photoreceptor membrane concept. Of course, existence of preferential orientation of the absorbing dipoles in the tubuli of the rhabdomeres can not be totally rejected. We hope that the concept of the universal photoreceptor membrane may serve as the useful instrument when dealing with newly discovered properties of visual cells so that true mechanisms of electrical and optical coupling will be searched for instead of assumptions being made on additional properties of the photoreceptor membrane in every new animal under study.

**5 Absorption Spectrum of the Universal Photoreceptor Membrane and Spectral Sensitivity of the Photoreceptor**

**5.1 Preliminary Notes** It seems nearly self-evident that the absorption spectrum of the photoreceptor membrane coincides exactly with that of the visual pigment it contains. Hence the membrane must exhibit three bands of absorption: the principal band with its peak within the limits of visible spectrum or a peak, the secondary band between 340 and 380 nm, the S peak, and the third protein band in the ultraviolet UV at 280 nm.

**COLLINS et al 1952** The main peak of absorption is located within the range 433–575 nm for retinol-based pigments and between 438 and 620 nm for 3-dehydroretinol-based pigments; the position of  $\lambda_{max}$  depending on many ecological factors.

*Vertebrate Photoreceptor Optics* J.M. Enoch, F.L. Jr. Tobey, 1981-09 With contributions by numerous experts.

**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.

**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      **Light Detectors, Photoreceptors, and Imaging Systems in Nature** Jerome J. Wolken, 1995-02-23 This comparative survey of how animals detect light and image in their world includes discussions of photoreceptors light emitters and optics It focuses on the evolution of different types of optical systems describing how these systems have developed into more complex designs      *Invertebrate Vision* Eric Warrant, Dan-Eric Nilsson, 2006-10-05 Publisher description      *Facets of Vision* Doekele G. Stavenga, Roger C. Hardie, 2012-12-06 The papers published in this Volume are the fruits of a symposium held in Regensburg in April 1987 The meeting was held to commemorate two most significant events in the development of compound eye research In chronological order these are firstly Sigmund Exner's seminal monograph on the physiology of compound eyes of crustaceans and insects which was first published in Vienna in 1891 and is now shortly to appear for the first time in the English translation Exner S 1989 *The Physiology of the Compound Eyes of Insects and Crustaceans* Springer Berlin Heidelberg New York Tokyo Secondly the meeting was also held in honour of Professor Hans Jochem Autrum's 80th birthday Professor Autrum who is justly acknowledged as one of the pioneers of modern compound eye research attended the meeting as the guest of honour In keeping with these historical occasions it has been our intention in this volume to present a comprehensive collection of short reviews covering the major aspects of compound eye research Whilst the most up to date developments have been included in every field from optics through photochemistry phototransduction integrative processes and behavior an attempt has also been made to provide a historical perspective      Methods in Insect Sensory Neuroscience Thomas A. Christensen, 2004-12-20 Insects are among the most diverse and adaptable organisms on Earth They have long been our chief competitors for food and are responsible for spreading devastating afflictions such as malaria and encephalitis The insects ability to thrive is due in large part to their well developed sensory systems which present a host of novel physiological      **Comparative Physiology and Evolution of Vision in Invertebrates** H. Autrum, M. F. Bannett, B. Diehn, K. Hamdorf, M. Heisenberg, M. Järvilehto, P. Kunze, R. Menzel, W. H. Miller, A. W. Snyder, D. G. Stavenga, M. Yoshida, 2012-12-06 In the comparative physiology of photoreception by the Protista and the invertebrates two aspects are emphasized 1 the diversity of visual processes in these groups and 2 their bearing upon general mechanisms of photoreception Invertebrates have evolved a far greater variety of adaptations than vertebrates modifications aiding survival in the remarkably different biotopes they occupy The number of species in itself suggests this multifariousness each of them has peculiarities of its own in morphology as well as in physiology and behavior But these special adaptations are variations on a few great themes Although the catalogue of invertebrate species is immense the literature concerning them nearly rivals it in extent even if one considers only that fraction dealing with visual physiology Taxonomy proceeds by grouping the species categorizing them in genera families orders and progressively larger units Similarly comparative physiology aims at an analogous more or less comprehensive classification This Part A of Volume VII 6 like Part B that follows it emphasizes the broad questions that

concern groups larger than the individual species in some cases these questions have general applicability The middle course between approaches that are too specialized and those that are too general is often elusive but here we attempt to follow it The vast number of special adaptations probably as we have said as large as the number of species is beyond the range even of a handbook

**Adaptive Optics for Vision Science** Jason Porter, Hope Queener, Julianna Lin, Karen Thorn, Abdul A. S. Awwal, 2006-07-21 Leading experts present the latest technology and applications in adaptive optics for vision science Featuring contributions from the foremost researchers in the field Adaptive Optics for Vision Science is the first book devoted entirely to providing the fundamentals of adaptive optics along with its practical applications in vision science The material for this book stems from collaborations fostered by the Center for Adaptive Optics a consortium of more than thirty universities government laboratories and corporations Although the book is written primarily for researchers in vision science and ophthalmology the field of adaptive optics has strong roots in astronomy Researchers in both fields share this technology and for this reason the book includes chapters by both astronomers and vision scientists Following the introduction chapters are divided into the following sections Wavefront Measurement and Correction Retinal Imaging Applications Vision Correction Applications Design Examples Readers will discover the remarkable proliferation of new applications of wavefront related technologies developed for the human eye For example the book explores how wavefront sensors offer the promise of a new generation of vision correction methods that can deal with higher order aberrations beyond defocus and astigmatism and how adaptive optics can produce images of the living retina with unprecedented resolution An appendix includes the Optical Society of America's Standards for Reporting Optical Aberrations A glossary of terms and a symbol table are also included Adaptive Optics for Vision Science arms engineers scientists clinicians and students with the basic concepts engineering tools and techniques needed to master adaptive optics applications in vision science and ophthalmology Moreover readers will discover the latest thinking and findings from the leading innovators in the field

**Optical Waveguides** María L. Calvo, Vasudevan Lakshminarayanan, 2018-10-03 Although the theory and principles of optical waveguides have been established for more than a century the technologies have only been realized in recent decades Optical Waveguides From Theory to Applied Technologies combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies in particular photonic devices telecommunication applications and biomedical optics With self contained chapters written by well known specialists the book features both fundamentals and applications The first three chapters examine the theoretical foundations and bases of planar optical waveguides as well as critical optical properties such as birefringence and nonlinear optical phenomena The next several chapters focus on contemporary waveguiding technologies that include photonic devices and telecommunications The book concludes with discussions on additional technological applications including biomedical optical waveguides and the potential of neutron waveguides As optical waveguides play an increasing part in modern technology photonics will become to the 21st century

what electronics were to the 20th century Offering both novel insights for experienced professionals and introductory material for novices this book facilitates a better understanding of the new information era the photonics century

**International Review of Cytology** ,1979-10-02 International Review of Cytology     Advances in Diagnostic Visual Optics G. M. Breinin,I. M. Siegel,2013-04-18 Opening Remarks of the President 2nd ISVO Professor G M Breinin M D The study of visual processes is surely unique as a clinical specialty in incorporating the disciplines of physics chemistry physiology and psychology Diagnosing and correcting disorders of the visual system in these last two decades of the 20th century has brought all of us into close proximity with computer sciences laser technology the marvels of electronic microcircuitry and the impressive developments in optical materials During the course of this meeting we shall be hearing about how these different technologies can interact with one another and we shall discover that such interaction may produce new diagnostic tools and new optical devices We shall also learn that the optical qualities of the eye change during life producing subtle and complex alterations in vision On behalf of the members and organizing committee of the American Committee on Optics and Visual Physiology and our co sponsoring organization the Optical Society of America I welcome you to this second symposium on visual optics The first symposium took place in Japan in 1978 and like the present one was a satellite meeting of the International Congress of Ophthalmology The third symposium in this series will take place in Italy in 1986 as part of the next session of the International Congress of Ophthalmology     **Progress in Optics** ,1980-01-01 Progress in Optics

*Nonlinear Vision: Determination of Neural Receptive Fields, Function, and Networks* Robert B. Pinter,2018-05-04 This text brings to vision research a treatment different from that often found in books on the subject in its emphasis on nonlinear aspects of vision from human perception to eye cells of the fly There is considerable emphasis on mathematics which forms not only models but the algorithms for processing data     **Handbook of Optics, Third Edition Volume III: Vision and**

**Vision Optics(set)** Michael Bass,Casimer DeCusatis,Jay M. Enoch,Vasudevan Lakshminarayanan,Guifang Li,Carolyn MacDonald,Virendra N. Mahajan,Eric Van Stryland,2009-12-04 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world's most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume III all in full color covers vision and vision optics     Neural Principles in Vision F. Zettler,R. Weiler,2012-12-06 Scientific investigation of the retina began with extensive studies of its anatomical structure The selective staining of neurons achieved by the Golgi method has led to a

comprehensive picture of the architecture of the tissue in terms of its individual elements Cajal in particular used this technique to reveal the fundamentals of retinal structure In the studies that followed selective staining method continued to be decisive in the analysis of neuroanatomy and in recent years these techniques have been complemented by electron microscopy The complexity of retinal structure that has been revealed demands a functional explanation and electrophysiology attempts to provide it But functional analysis like anatomy must ultimately be based on the single cell It is only by using dyes to mark the recording site that one can identify the cells involved When this succeeds as it has recently one can actually fit functional events into the anatomical framework With these advances our strategies and tactics toward an understanding of the structure and function of the retina have moved in to a new phase

**Biophysics** W. Hoppe, W. Lohmann, H. Markl, H. Ziegler, 2012-12-06 What is biophysics As with all subjects which straddle traditional boundaries between fields it eludes a precise definition Furthermore it is impossible to do biophysics without having a certain foundation of knowledge in biology physics physical chemistry chemistry and biochemistry One approach to a biophysics textbook would be to refer the student to the literature of these neighboring fields and to leave the selection of the appropriate supplementary material up to the student The editors of this volume are of the opinion that it is more useful and less time consuming to present a selection of the supplementary knowledge in concentrated form together with the subject matter specific to biophysics The reader will thus find in this book introductions to such subjects as the structure and function of the cell the chemical structure of biogenic macromolecules and even theoretical chemistry What indeed is biophysics Must we consider it to include physiology electromedicine radiation medicine etc The field has evolved continuously in recent years Molecular understanding of life processes has come more and more to the fore Just as the field of molecular physics has developed to describe structures and processes in the realm of non living systems there has been a corresponding development of molecular biophysics

Progress in Sensory Physiology ,2012-12-06 **Cumulated Index Medicus** ,1980

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