

# **Accommodation and Vergence Mechanisms in the Visual System**

Edited by  
O. Franzén  
H. Richter  
L. Stark

**Birkhäuser**

# Accommodation And Vergence Mechanisms In The Visual System

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## **Accommodation And Vergence Mechanisms In The Visual System:**

*Accommodation and Vergence Mechanisms in the Visual System* Ove Franzen, Hans Richter, Lawrence Stark, 2013-06-05

This conference was instigated by a combination of factors The nature of the problem the wide spread occupational epidemiology reported on eye symptoms and eye fatigue in the workplace and the organizers awareness of the complexity of the scientific and clinical bases of knowledge that might be usefully applied The introduction of new methods into system neurobiology provides new insights into how we receive and process information from the external world and act upon it New non invasive methods have opened the way to direct observation of the human brain in action Due particularly to the interaction between the visual and oculomotor requirements involved several clinical and scientific fields intersect when these issues are considered To provide clear vision the accommodative and pupillary mechanisms are used To maintain binocularity the vergence oculomotor system sensitive to fatigue must attain congruence with accommodative levels This accommodation vergence linkage was a focus of our symposium

*Borish's Clinical Refraction - E-Book* William J. Benjamin, 2006-10-13 Now updated and expanded to cover the latest technologies this full color text on clinical refraction uses an easy to read format to give optometry students and practitioners all the important information they need Also covers a wide range of other aspects of the eye exam including anterior and posterior segment evaluations contact lens ocular pharmacology and visual field analysis Four new chapters cover wavefront guided refraction optical correction with refractive surgeries prosthetic devices and patients with ocular pathology Offer precise step by step how to s for performing all of the most effective refractive techniques Presents individualized refractive approaches for the full range of patients including special patient populations Contributors are internationally recognized leading authorities in the field New full color design with full color images throughout Completely updated and expanded to include current technologies A new chapter on Optical Correction with Refractive Surgeries including keratoplasty traditional refractive surgeries e g LASIK and PRK crystalline lens extraction with and without pseudophakia the new presbyopic surgery etc A new chapter on Wavefront Guided Refraction provides information on the advantages and limitations the Hartmann Shack Method for objective refraction plus aberrometry and the refraction and the use of in the correction of the eye with spectacles contact lenses and refractive surgery A new chapter on Patients with Ocular Pathology reflects the most current knowledge of patients with ocular pathologies Provides information on Optical Correction with Prosthetic Devices including corneal onlays stromal implants phakic intraocular lenses etc Includes new chapters and or discussions on such topics as Aberrations of the Eye Refractive Consequences of Eye Pathology Diagnosis and Treatment of Dry Eye Diagnosis of Pathology of the Anterior Segment Diagnosis of Glaucoma and Diagnosis of Pathology of the Posterior Segment Visual Acuity chapter expanded to include the effect of refractive error on visual acuity and statistics on how much of a change in visual acuity is significant Objective Refraction Corneal Topography and Visual Field Analysis chapters include the addition of new electro optical and

computer techniques and equipment Chapters on Multifocal Spectacle Lenses and Contact Lenses now cover newer progressive addition lenses and contact lenses that are now on the market Electrodiagnosis chapter revised to take a more clinical approach

**Perceiving in Depth, Volume 1: Basic Mechanisms** Ian P. Howard, 2012-01-27 The three volume work *Perceiving in Depth* is a sequel to *Binocular Vision and Stereopsis* and to *Seeing in Depth* both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 1 starts with a review of the history of visual science from the ancient Greeks to the early 20th century with special attention devoted to the discovery of the principles of perspective and stereoscopic vision The first chapter also contains an account of early visual display systems such as panoramas and peepshows and the development of stereoscopes and stereophotography A chapter on the psychophysical and analytic procedures used in investigations of depth perception is followed by a chapter on sensory coding and the geometry of visual space An account of the structure and physiology of the primate visual system proceeds from the eye through the LGN to the visual cortex and higher visual centers This is followed by a review of the evolution of visual systems and of the development of the mammalian visual system in the embryonic and post natal periods with an emphasis on experience dependent neural plasticity An account of the development of perceptual functions especially depth perception is followed by a review of the effects of early visual deprivation during the critical period of neural plasticity on amblyopia and other defects in depth perception Volume 1 ends with accounts of the accommodation mechanism of the human eye and vergence eye movements

*Handbook of Optics Third Edition, 5 Volume Set* Optical Society of America, 2010-05-18 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 I covers geometrical and physical optics polarized light components and instruments Volume II covers design fabrications testing sources detectors radiometry and photometry Volume III all in full color covers vision and vision optics Volume IV covers optical properties of materials nonlinear optics

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[Adaptive Processes in Visual and Oculomotor Systems](#) Edward L. Keller,David S. Zee,1986 **Investigative Ophthalmology & Visual Science** ,1999-04 [Myopia Updates II](#) L.L.-K. Lin,Y.-F. Shih,P.T. Hung,2000 The incidence of myopia continues its rapid rise worldwide and although the mechanism has not been fully clarified there has been a significant increase in knowledge of the condition in recent years Important questions about myopia are being posed by researchers across a broad spectrum of disciplinesfrom psychology to molecular biology from corneal surgery to retinal physiology and from genetics to experimental optics The Seventh International Conference on Myopia held in Taipei in November 1998 provided a forum for researchers and practitioners to make presentations and participate in discussions of their latest findings Many doctors from Asian countries where the incidence of myopia is particularly high reported the results of their work Myopia Updates II presents the latest information on epidemiology risk factors complications experimentation and treatment and is a valuable resource for all who are interested in myopia and ocular growth

[Adaptive Mechanisms in Gaze Control](#) A. Berthoz,Geoffrey Melvill Jones,1985 The book will be an important addition for researchers and clinicians interested in the vestibular system eye movements motor systems in general and central nervous system correlates of learning Science Review Neuroscience Letters **Models of the Visual System** George K. Hung,Kenneth J. Ciuffreda,2002-01-31 Over the past thirty years with improvements in optics electronics and computer technology great strides have been made in the quantitative analysis of the visual system A number of books on eye movement research have been written that have dealt with specific aspects of either eye movement control However none of these books provide a comprehensive overview of multiple aspects of the visual system Moreover few of these books contain

modeling and detailed quantitative analyses of the visual system Further since the major books are almost ten years old there is a need for an update to include the most recent research findings It is with these considerations in mind that we have carefully compiled this updated comprehensive and quantitative model based edited book on various components of the visual system Some of the best vision scientists in the world in their respective fields have contributed to chapters in this book They have expertise in a wide variety of fields including bioengineering basic and clinical visual science medicine neurophysiology optometry and psychology Their combined efforts have resulted in a high quality book that covers modeling and quantitative analysis of optical neurosensory oculomotor perceptual and clinical systems It includes only those techniques and models that have such fundamentally strong physiological control system and perceptual bases that they will serve as foundations for models and analysis techniques in the future The book is aimed first towards seniors and beginning graduate students in biomedical engineering neurophysiology optometry and psychology who will gain a broad understanding of quantitative analysis of the visual system In addition it has sufficient depth in each area to be useful as an updated reference and tutorial for graduate and post doctoral students as well as general vision scientists

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