

# Pickwell S Binocular Vision Anomalies

Normal Binocular Vision Binocular Vision and Stereopsis Binocular Vision Clinical  
Management of Binocular Vision Pickwell's Binocular Vision Anomalies E-Book The Theory of  
Binocular Vision Foundations of Binocular Vision: A Clinical Perspective The Journal of  
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and Art with Two Eyes A Text-book on diseases of the eye David Stidwill Ian P. Howard  
Jacques McCoun Mitchell Scheiman Bruce J. W. Evans Ewald Hering Barbara A. Steinman  
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Nicholas Wade Henry Drury Noyes*

binocular vision i e where both eyes are used together is a fundamental component of

human sight it also aids hand eye co ordination and the perception of the self within the environment clinical anomalies pose a wide range of problems to the sufferer but normal binocular operation must first be understood before the eye specialist can assess and treat dysfunctions this is a major new textbook for students of optometry orthoptics and ophthalmology and also of psychology chapters span such key topics as binocular summation fusion the normal horopter anatomy of the extra ocular muscles oculomotor control binocular integration and depth perception fully illustrated throughout the book includes self assessment exercises at the end of each chapter and sample experiments in binocular vision functioning

this book is a survey of knowledge about binocular vision with an emphasis on its role in the perception of a three dimensional world the primary interest is biological vision in each chapter physiological behavioral and computational approaches are reviewed in some detail discussed and interrelated the authors describe experiments required to answer specific questions and relates them to new terminologies and current theoretical schemes

binocular vision literally means vision with two eyes and refers to the special attributes of vision with both eyes open rather than one eye only our perception under binocular conditions represents a highly complex co ordination of motor and sensory processes and is markedly different from and more sophisticated than vision with one eye alone this book reviews our ability to use both eyes while also providing basic information on the development of binocular vision and on the clinical disorders that interfere with our depth perception such as strabismus and amblyopia this book also describes the development of eye movement control particularly those that are important for reading in addition the authors of this book review the phenomenon of ocular dominance od in the light of the types of test used to identify it question whether inter test agreement of od in an individual might be anticipated and address some practical implications of od as demonstrated in healthy eyes and in cases where there is compromised binocular function other chapters in this book disclose new methodologies in congenital nystagmus eye movements analysis and evaluate heterophoria as an important element of assessment of binocular vision disorders

this fourth edition of clinical management of binocular vision uses the past five years of research studies and literature to provide an accurate look at today s diagnosis and treatment of binocular vision written with an emphasis on proper evaluation diagnosis and

treatment each condition is covered in depth and includes background information symptoms case analysis and management options this edition also includes the latest information on new vision therapy equipment easy to read and understand this book is ideal for faculty when designing courses students studying these topics for the first time or established practitioners looking for a practical easy to use reference on accommodative ocular motility and nonstrabismic vision anomalies

now in a fully up to date 6th edition pickwell s binocular vision anomalies provides a practical introduction to binocular vision offering comprehensive theory how to clinical guidance and a summary of current research in a single consolidated volume ideally suited for both students and clinicians this bestselling text serves as an accessible evidence based reference when faced with binocular vision or pediatric challenges covers routine examinations and testing protocols including ciiss questionnaire cover test foveal suppression fixation disparity four prism diopter base out test lindblom s method and double maddox rod test includes numerous video clips of key testing procedures including new clips on mallett fixation disparity test and fusional reserve testing as well as an interactive video quiz to help you test your knowledge features sweeping content updates such as the latest information on 3 d displays therapeutic uses of computer games and virtual reality for vision therapy computerized testing methodologies binocular and accommodative mechanisms associated with myopia updated prescribing criteria therapeutic use of contact lenses detection of pathology associated with strabismus drugs causing diplopia and the evidence based treatment of convergence insufficiency syndrome and amblyopia contains helpful study features throughout including clinical key points boxes step by step test routines typical features of extraocular muscle palsies and syndromes and case study boxes that cover important clinical and legal scenarios and new boxes that summarize testing procedures for each of the main binocular vision tests enhanced ebook version included with purchase your enhanced ebook allows you to access all of the text figures and references from the book on a variety of devices

the theory of binocular vision is a book about neurological control theory in this sense it was far ahead of its time for the formal development of control theory was many decades in the future when this book appeared in 1868 hering s principal concept is that the control of eye movements is greatly simplified if there is only one neurological control system commanding the double eye as a single organ this idea leads directly to the first thorough exposition of

what is now known as Hering's law that the corresponding muscles of the two eyes are always equally innervated as Hering eloquently states it one and the same impulse of will directs both eyes simultaneously as one can direct a pair of horses with single reins ch 2 the 19th century the book was written during an exciting era for physiological research before the mid 19th century the study of physiology had been limited to isolated efforts by great men who worked largely without colleagues or organized laboratories now for the first time of inquiry with many sensory physiology was becoming a living field groups working simultaneously on fundamental problems like the classical Greeks before them in philosophy the physiologists of the 19th century were defining in a burst of creative energy the problems 1 2 introduction which would shape subsequent inquiry and like the Greeks they produced a splendid period of science

from a renowned author team comes a clinically oriented approach to the introductory study of binocular vision essential reading for second year optometry students this vital core text covers testing procedures diagnostic issues and treatment modalities in preparation for more advanced clinical work key points to remember for national board exams are highlighted and discussions of clinical applications and procedures abound in every chapter

now in its 6th edition this classic text lauded by archives of ophthalmology as the gold standard for strabismus textbooks continues to provide you with everything you need to diagnose and treat the full spectrum of disorders this new edition is simply the best and most comprehensive resource available in the field of strabismus it presents the latest information on the pharmacological treatment of amblyopia chemodectoma in place of surgery for certain types of strabismus use of botulinum toxin for treatment of extraocular muscles and much more the 6th edition of this complete and extensive reference has been fully updated and expanded to offer the latest information on both the theoretical and practical aspects of diagnosis and management readers will find highly illustrated and extensively referenced descriptions of state of the art procedures presented in an easy to read format features coverage of the newly discovered muscle pulleys and their clinical significance the etiology of A and V pattern strabismus the etiology of infantile esotropia strabismus in high myopes and more offers the international perspective of a new co author Dr Campos fully illustrated with over 650 photographs and line drawings over 40 of which are brand new to this edition reinforces text discussions with numerous case reports reflects the current literature with hundreds of new references discusses the perceptual and

functional aspects of binocular cooperation in depth includes a brand new chapter on chemodenervation of extraocular muscles botulinum toxin plus expanded coverage of sensory signs symptoms and binocular adaptations in strabismus amblyopia and depth perception

this title is directed primarily towards health care professionals outside of the united states going from strength to strength this best selling book on binocular vision anomalies is now in its fifth edition maintaining its popular and practical how to approach it has been thoroughly updated and expanded to provide an excellent practice reference for all optometrists orthoptists ophthalmologists and dispensing opticians now with an easy to use 2 colour layout and redrawn diagrams the new edition is more accessible than ever covering the latest evidence based research it provides an emphasis on the clinical applications for every eyecare practitioner still a must have classic this is the definitive reference work on binocular vision disorders comprehensive theory is rooted in reality for use from study into clinical practice enlarged enhanced authoritative and erudite includes a cd rom thorough revisions on routine examination including the latest testing routines new material on the development of visual functions in children recent key research on heterophoria including the latest computerized exercise methods important clinico legal case studies in amblyopia and the latest evidence based accounts of the condition extensive updating on strabismus fresh text design using a second colour for both text and diagrams updated cd with more clips and an invaluable incomitancy presentation and quiz

much has been written upon the subject of sight but professor joseph le conte makes good his claim to add to this kind of literature his book is a model of clear exposition rich in information and abounding in views or modes of exposition which are more or less novel after a short introduction on the relation of the senses to general sensibility and the different relations of the senses to their environment the first part of the book which treats of monocular vision commences with an account of the structure of the eye terse and admirably clear then having got the instrument its use is demonstrated in the formation of the image the eye is considered as an optical instrument he then points out its defects such as short sightedness long sightedness and the sight of old age the fourth chapter explains the phenomena of monocular vision entering into a consideration of the function of the rods and cones of the retina but less fully than in the better works on physiology published in this country the second part of the book is devoted to binocular vision and discusses judgment

of distance size and form binocular perspective double images and the superposition of images the third part is on disputed points in binocular vision this latter part is to some extent original in character the bright interesting tone of the exposition is never lost and the subject is kept so free from technicality that whatever may be the differences of opinion concerning certain theories discussed the work must be accepted as a useful contribution to scientific literature the westminster review vol 116

this comprehensive text explains the diagnostic and optometric management procedures involved in the care of patients with binocular vision anomalies it is a clinically oriented text that can be used by the student as well as the clinician it provides thorough descriptions of the many binocular vision anomalies describes the necessary testing procedures to correctly diagnose each disorder and suggests the most appropriate management featuring many illustrations photos and case studies particularly on strabismus and incomitant deviations it presents an orderly practical approach to diagnosis differential diagnosis and treatment decision making every topic area in binocular vision anomalies is included from heterophoria and accommodative disorders to severe strabismic disorders discusses not only the most common forms of treatment for a particular anomaly but also discusses less known but deserving treatment alternatives providing the reader with an understanding of the full range of treatment possibilities in each chapter an anomaly is identified then classified according to its significant symptoms and clinical findings once a diagnosis is certain the appropriate forms of treatment are discussed editors rutstein and daum are well known and respected in their field they are scientists who have lectured extensively have written many articles and have a wealth of clinical experience organized to take the reader from the base to the tip of the pyramid of binocular vision sensory anomalies are discussed first integrative anomalies next and motor anomalies last an invaluable reference for both optometrists and ophthalmologists features many references and case studies contains approximately 309 illustrations and photographs providing the reader with a clear visual guide to the disorders and their management features clinical pearls succinct bits of clinical wisdom that are boxed within the text for easy reference outlines appear at the beginning of each chapter giving the reader a quick overview of chapter content glossary appears at the end of the book defining key words that appear in the text

through five highly regarded editions ophthalmology by drs myron yanoff and jay s duker has remained one of the premier texts in the field providing authoritative guidance on

virtually any ophthalmic condition and procedure you may encounter the fully revised 6th edition of this award winning title continues to offer detailed superbly illustrated content from cover to cover with extensive updates throughout to keep you current with the latest advancements and fundamentals throughout every subspecialty area in the field an easy to follow templated format convenient single volume and coverage of both common and rare disorders make this title a must have resource no matter what your level of experience offers truly comprehensive coverage including basic foundations through diagnosis and treatment advances across all subspecialties genetics optics refractive surgery lens and cataract cornea retina uveitis tumors glaucoma neuro ophthalmology pediatric and adult strabismus and oculoplastics features streamlined templated chapters a user friendly visual layout and key features boxes for quick access to clinically relevant information and rapid understanding of any topic contains four new chapters covering phototherapeutic keratectomy iol optics bag in the lens cataract surgery and capsulectomy modern devices apart from flacs includes a fully revised and updated chapter on refractive surgery screening and corneal imaging as well as an expanded chapter on corneal cross linking provides up to date information on the latest advances in the field including new therapies for retinoblastoma such as intravenous and intraarterial chemotherapy less common retinal tumor simulators of retinoblastoma oct angiography glaucoma stents new drug delivery platforms iol optics phototherapeutic keratectomy intraocular pressure monitoring and more includes more than 2 000 high quality illustrations and an expanded video library with more than 60 clips of diagnostic and surgical techniques including new videos of nystagmus contains updated management guidelines for central retinal artery occlusions crao provides fresh perspectives from new section editors drs carol shields and sumit sam garg enhanced ebook version included with purchase your enhanced ebook allows you to access all of the text figures and references from the book on a variety of devices

the previous editions of this book established it as a standard text on binocular vision anomalies it was popular with students and practitioners because of the how to do it approach which kept the theory of binocular vision to the minimum necessary to understand the investigative and therapeutic procedures

collection of incunabula and early medical prints in the library of the surgeon general s office u s army ser 3 v 10 p 1415 1436

this book celebrates binocular vision by presenting illustrations that require two eyes to see

the effects of cooperation and competition between them pictures are flat but by printing them in different colours and viewing them through similarly coloured filters included with the hardcover book they are brought to life either in stereoscopic depth or in rivalry with one another they are called anaglyphs and all those in the book display the ways in which the eyes interact thus the reader is an integral element in the book and not all readers will see the same things the history science and art of binocular vision can be experienced in ways that are not usually available to us and with images made specifically for this book the study of vision with two eyes was transformed by the invention of stereoscopes in the early 19th century anaglyphs are simple forms of stereoscopes that have three possible outcomes from viewing them with each eye alone to see the monocular images with both eyes to see them in stereoscopic depth or rivalry or without the red cyan glasses where they can have an appeal independent of the binocularity they encompass through the binocular pictures and the words that accompany them there will be an appreciation of just how remarkable the processes are that yield binocular singleness and depth moreover the opportunities for expressing these processes are explored with many examples of truly binocular art

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