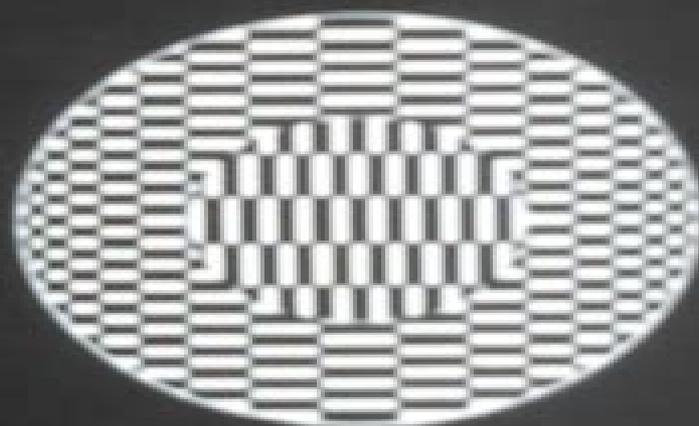


VISUAL PERCEPTION

The Neurophysiological Foundations



Edited by

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Visual Perception The Neurophysiological Foundations

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Visual Perception The Neurophysiological Foundations:

Visual Perception Lothar Spillmann, John S. Werner, 2012-12-02 This book presents an interdisciplinary overview of the main facts and theories that guide contemporary research on visual perception While the chapters cover virtually all areas of visual science from philosophical foundations to computational algorithms and from photoreceptor processes to neuronal networks no attempt has been made to provide an exhaustive treatment of these topics Rather researchers from such diverse disciplines as psychology neurophysiology anatomy and clinical vision sciences have worked together to review some of the most important correlations between perceptual phenomena and the underlying neurophysiological processes and mechanisms The book is thus intended to serve as an advanced text for graduate students and as a guide for all vision researchers to understanding current progress outside their specialized fields of interest Examines parallel processing of visual information Discusses links between physiologically measured receptive fields and psychophysically measured perceptive fields Presents a spatial sampling by the retina and cortical modules Covers signal transduction and the sites of adaptation Describes a single cell analysis of attention Discusses computational models of vision

Visual Perception: The Neurophysiological Foundations L. Spillmann, *Conference on the Neurophysiological Foundations of Visual Perception* John S. Werner, COLORADO UNIV AT BOULDER DEPT OF PSYCHOLOGY., 1988 A Conference on the Neurophysiological Foundations of Visual Perception was held in Badenweiler West Germany from 29 June to 3 July 1987 In attendance were 75 scientists from all areas of vision research including the fields of anatomy computer science optometry ophthalmology physiology and psychology The participants were divided into individual working groups each of which concentrated on a particular area of vision research Each group presented a summary of the current state of the field for all conference participants In this summary the participants emphasized the correlations between neuroanatomy neurophysiology psychophysics and perception The presentations were followed by extensive discussions that included all conference participants Subsequent to the conference each working group wrote a chapter to present their views on the state of the field in terms that can be understood by students and vision researchers working in other areas of specialization These chapters will be published in a book by Academic Press in 1989 Keywords Symposia Conferences Vision Aviation Visual Perception Randy Gibb, Rob Gray, Lauren Scharff, 2016-04-15 Vision is the dominant sense used by pilots and visual misperception has been identified as the primary contributing factor in numerous aviation mishaps resulting in hundreds of fatalities and major resource loss Despite physiological limitations for sensing and perceiving their aviation environment pilots can often make the required visual judgments with a high degree of accuracy and precision At the same time however visual illusions and misjudgments have been cited as the probable cause of numerous aviation accidents and in spite of technological and instructional efforts to remedy some of the problems associated with visual perception in aviation mishaps of this type continue to occur Clearly understanding the role of visual perception in aviation is key to improving pilot

performance and reducing aviation mishaps This book is the first dedicated to the role of visual perception in aviation and it provides a comprehensive single source document encompassing all aspects of aviation visual perception Thus this book includes the foundations of visual and vestibular sensation and perception how visual perceptual abilities are assessed in pilots the pilot s perspective of visual flying a summary of human factors research on the visual guidance of flying examples of specific visual and vestibular illusions and misperceptions mishap analyses from military commercial and general aviation and finally how this knowledge is being used to better understand visual perception in aviation s next generation Aviation Visual Perception Research Misperception and Mishaps is intended to be used for instruction in academia as a resource for human factors researchers design engineers and for instruction and training in the pilot community Vision Models and Applications to Image and Video Processing Christian J. van den Branden Lambrecht,2001-07-31 In this introduction to vision models and their use in image and video processing applications prominent authors take on an engineering and signal processing approach It is intended for an engineering audience that wants to use and become familiar with vision models

Visual Perception Part 2 Susana Martinez-Conde,S. Macknik,Maria M. Martinez,Jose-Manuel Alonso,Peter U. Tse,2006-10-06 This book presents a collection of articles reflecting state of the art research in visual perception specifically concentrating on neural correlates of perception Each section addresses one of the main topics in vision research today Part 2 Fundamentals of Awareness Multi Sensory Integration and High Order Perception covers topics from filling in to visual awareness to crossmodal interactions A variety of methodological approaches are represented including single neuron recordings fMRI and optical imaging psychophysics eye movement characterization and computational modelling The contributions will provide the reader with a valuable perspective on the current status of vision research and more importantly with critical insight into future research directions and the discoveries yet to come Provides a detailed breakdown of the neural and psychophysical bases of Perception Presents never before published original discoveries Includes multiple full color illustrations **Visual Perception** Steven H. Schwartz,1999 This textbook provides the foundation material for required courses in visual perception All topics relevant to monocular visual perception are covered including visual development color vision the role of visual fields and motion perception **Colour Vision** Evan Thompson,2003-09-02 Thompson provides an accessible review of the current scientific and philosophical discussions of colour vision and is vital reading for all cognitive scientists and philosophers whose interests touch upon this central area

Comprehensive Human Physiology Rainer Greger,Uwe Windhorst,2013-11-11 Comprehensive Human Physiology is a significantly important publication on physiology presenting state of the art knowledge about both the molecular mechanisms and the integrative regulation of body functions This is the first time that such a broad range of perspectives on physiology have been combined to provide a unified overview of the field This groundbreaking two volume set reveals human physiology to be a highly dynamic science rooted in the ever continuing process of learning more about life Each chapter contains a

wealth of original data clear illustrations and extensive references making this a valuable and easy to use reference This is the quintessential reference work in the fields of physiology and pathophysiology essential reading for researchers lecturers and advanced students

The Visual Neurosciences John S. Werner (editor.), Leo M. Chalupa, 2004 An essential reference book for visual science

Visual Perception Isak L. Nilsson, William V. Lindberg, 2008 In psychology visual perception is the ability to interpret information from visible light reaching the eyes The resulting perception is also known as eyesight sight or vision The various physiological components involved in vision are referred to collectively as the visual system The visual system in humans allows individuals to assimilate information from the environment The act of seeing starts when the lens of the eye focuses an image of its surroundings onto a light sensitive membrane in the back of the eye called the retina The retina is actually part of the brain that is isolated to serve as a transducer for the conversion of patterns of light into neuronal signals The lens of the eye focuses light on the photoreceptive cells of the retina which detect the photons of light and respond by producing neural impulses These signals are processed in a hierarchical fashion by different parts of the brain from the retina to the lateral geniculate nucleus to the primary and secondary visual cortex of the brain The major problem in visual perception is that what people see is not simply a translation of retinal stimuli i e the image on the retina Thus people interested in perception have long struggled to explain what visual processing does to create what we actually see This book presents leading edge research from around the globe on this field

From Pigments to Perception Arne Valberg, Barry B. Lee, 2012-12-06 Proceedings of a NATO ARW on Advances in Understanding Visual Processes Convergence of Neurophysiological and Psychological Evidence held in Roros Norway August 6 10 1990

Representations of Vision Andrei Gorea, 1991-04-26 This stimulating volume on vision extends well beyond the traditional areas of vision research and places the subject in a much broader philosophical context The emphasis throughout is to integrate and illuminate the visual process The first three parts of the volume provide authoritative overviews on computational vision and neural networks on the neurophysiology of visual cortex processing and on eye movement research Each of these parts illustrates how different research perspectives may jointly solve fundamental problems related to the efficiency of visual perception to the relationship between vision and eye movements and to the neurophysiological codes underlying our visual perceptions In the fourth part leading vision scientists introduce the reader to some major philosophical problems in vision research such as the nature of ultimate codes for perceptual events the duality of psycho physics the bases of visual recognition and the paradigmatic foundations of computer vision research

Visual Perception: A Clinical Orientation, Fifth Edition (Paperback) Steven H. Schwartz, 2017-06-30 The cornerstone text on visual science now more clinically relevant than ever

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Perception ,1997 Spatial Vision ,1997 **Inhibitory Mechanisms in the Primary Visual Cortex** Gary Allan Walker,1998 *Visual Information Processing* ,1994 **Tohoku psychologica folia** ,1992 **Characterization, Propagation, and Simulation of Sources and Backgrounds** ,1993

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