

Robert Snowden, Peter Thompson and Tom Troscianko

# BASIC VISION

an introduction to visual perception

REVISED EDITION



# **Basic Vision An Introduction To Visual Perception**

Robert J. Snowden,Robert Snowden,Peter Thompson,Tom Troscianko

#### **Basic Vision An Introduction To Visual Perception:**

Basic Vision Robert J. Snowden, Robert Snowden, Peter Thompson, Tom Troscianko, 2012-02-09 If you ve ever been tricked by an optical illusion you ll have some idea about just how clever the relationship between your eyes and your brain is This book leads one through the intricacies of the subject and demystifying how we see **Basic Vision** Robert J. Snowden, Peter Thompson, Tom Troscianko, 2006 How do we spot a familiar face from across a crowded room and know that we re not waving to a complete stranger How can we judge that the oncoming car is approaching too fast for us to cross the road safely and we re better off waiting at the kerb Basic Vision An Introduction to Visual Perception demystifies the processes through which the brain sees It leads us through the various elements that come together as our perception of the world around us the perception of size colour motion and three dimensional space It illustrates theintricacy of the visual system discussing its development during infancy and revealing how the brain can get it wrong either as a result of brain damage through which the network of processes become compromised or through illusion where the brain compensates for mixed messages by seeing whatit thinks should be there rather than conveying the reality. The book also demonstrates the importance of contemporary techniques and methodology and neuroscience based techniques in particular in driving forward our understanding of the visual system With a sense of enthusiasm for the subject that pervades the book Basic Vision will motivate and engage even the most reluctant learner opening up to an undergraduate audience this stimulating yet challenging subject for the first time Online Resource Centre For Lecturers Figures from the book available to download to facilitate lecture preparation Customizable course outlines and student handouts to facilitate lecture deliveryTest bank of multiple choice questions a readily available tool for either formative or summative assessmentFor the student Annotated web links giving students ready access to these additional learning resourcesUpdate section giving links to web sites and journal articles to illustrate to the student developments in the field since the book published Outlines and Highlights for Basic Vision Cram101 Textbook Reviews, 2012-08-01 Never HIGHLIGHT a Book Again Virtually all of the testable terms concepts persons places and events from the textbook are included Cram101 Just the FACTS101 studyguides give all of the outlines highlights notes and guizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanys 9780199286706 Studyguide for Basic Vision Cram101 Textbook Reviews, 2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and guizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on demand Visual Perception from a Computer Graphics Perspective William Thompson, Roland Fleming, Sarah Creem-Regehr, Jeanine Kelly Stefanucci, 2016-04-19 This book provides an introduction to human visual perception suitable for readers studying or working in the fields of computer graphics and visualization cognitive science and visual neuroscience It focuses on how

computer graphics images are generated rather than solely on the organization of the visual system itself therefore the text provides a more direct tie between image generation and the resulting perceptual phenomena It covers such topics as the perception of material properties illumination the perception of pictorial space image statistics perception and action and Visual Perception Nicholas Wade, Mike Swanston, 2013-03-05 Does the world appear the same to everyone Does what we know determine what we see Why do we see the world as we do Vision is our most dominant sense From the light that enters our eyes to the complex cognitive processes that follow we derive most of our information about what things are where they are and how they move from our vision Visual Perception takes a refreshingly different approach to this enigmatic sense From the function that vision serves for an active observer to the history of visual perception itself the third edition has been extensively revised updated and expanded while still preserving the essential features of historical context neurophysiology and independent thought that made the earlier editions so engaging Covering the perception of location motion object recognition and with up to date information on the workings of the visual brain the 3rd edition looks at how our ideas have been shaped not just by psychology but by art optics biology and philosophy The emphasis on understanding vision as a basis for action in the real world has also been expanded to cover seeing representations of all sorts whether they are pictures or computer generated displays The 3rd Edition of Visual Perception is a readable accessible and truly relevant introduction to the world of perception and will be welcomed by students of visual perception as well as anyone with a general interest in the mysteries and wonder of vision Visual Perception Nicholas J. Wade, Michael Swanston, 2013 Vision is our most dominant sense From the light that enters our eyes to the complex cognitive provesses that follow we derive most of our information about what thighs are where they are and how they move from our vision

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