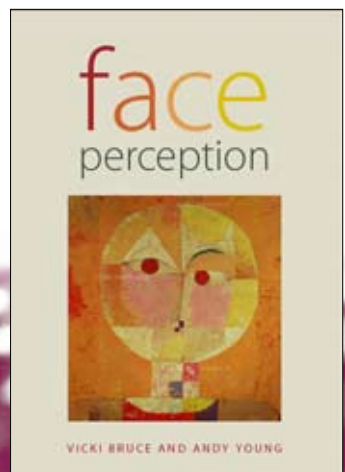
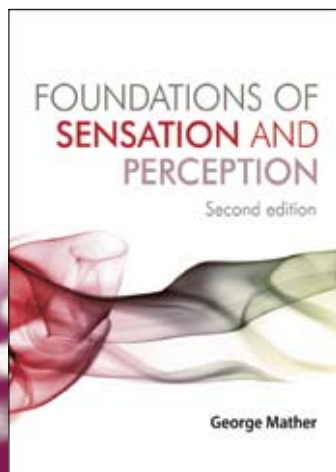
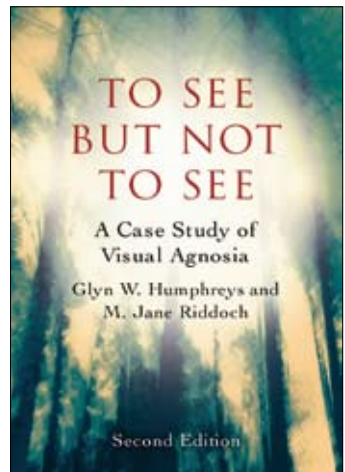
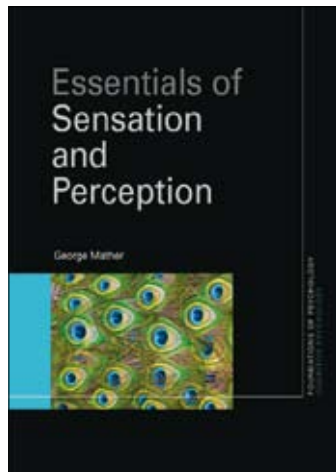
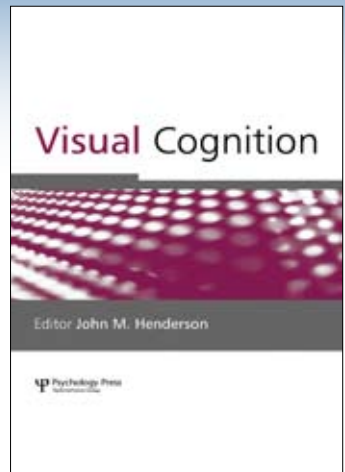


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**New textbook!**

# Essentials of Sensation and Perception

George Mather

University of Sussex, UK

## Foundations of Psychology Series

The study of Sensation and Perception looks at how we acquire, process and interpret information about the outside world. By describing key ideas from first principles, this straightforward introduction provides easy access to the basic concepts in the subject and incorporates the most recent advances with useful historical background. The text takes a uniquely integrative approach, highlighting fundamental findings that apply across all the senses – including vision, hearing, touch, pain, balance, smell and taste – rather than considering each sense in isolation.

Several pedagogical features help students to engage with the material. ‘Key Term’ and ‘Key Concept’ boxes describe technical terms and concepts whilst ‘Question’ boxes relate the material to everyday questions about perception. Each chapter ends with suggestions for further reading, and the final chapter draws together the material from the previous chapters, summarizing the broad principles described and outlining some major unresolved issues.

Assuming no prior knowledge, this book is an accessible and up-to-date overview of the processes of human sensation and perception. Presented in full color, it is an ideal introduction for pre-undergraduate and first year undergraduate students on courses in psychology, as well as neuroscience and biology.

### Contents

1. Sensory Reception. 2. Sensory Pathways and Cortical Processing. 3. The Senses and the Brain. 4. Psychophysics. 5. Perception as Information Processing. 6. Population Codes in Sensory Processing. 7. Perceptual Inference. 8. Multi-sensory Processing. 9. Consciousness and Perception. 10. Summary and Future Directions.

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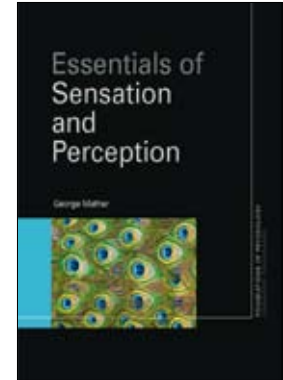
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A Case Study of  
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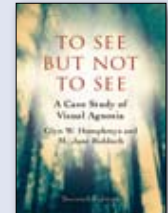
University of Birmingham, UK

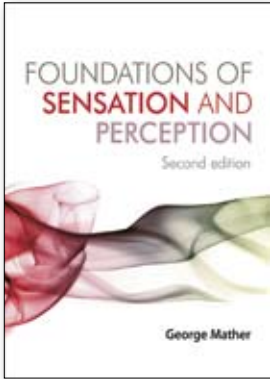
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Pb: 978-1-84872-073-2: \$34.65

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**Textbook!**

# Foundations of Sensation and Perception

2nd Edition

George Mather  
University of Sussex, UK

Praise for the 1st edition: *“Mather has included some excellent pedagogical features that put this book in a class by itself. ... Moreover, Mather’s conversational and interactive style of writing results in a book that is enjoyable as well as informative ... Would I use it for my S&P course?”*

*The answer is a resounding ‘yes’.* - **Stephen F. Davis, in PsycCRITIQUES**

*“This second edition adds tremendous value to an already excellent text. It presents a solid foundation in physiology and psychology of the senses in a very accessible and engaging manner. It is an excellent choice for introductory as well as advanced courses and has the breadth and depth to serve as a basic reference text for all.”* - **Patrick Cavanagh, Université Paris Descartes, France, and Harvard University, USA**

*“Mather does an excellent job of bringing the topic of Sensation and Perception to life using many examples from the ‘real world’ as well as giving a comprehensive overview of both recent and classic experimental findings. The book is highly recommended for students who are new to the topic.”* - **Jamie Ward, University of Sussex, UK**

This comprehensive introduction to Sensation and Perception has been highly praised for its unique approach, which begins with the minor senses and progresses to vision. This approach allows students to thoroughly grasp the fundamental principles in relation to the relatively simple sensory systems before moving on to the more complex topics.

Unlike other perception textbooks, this has a whole chapter on Individual Differences, which considers potential sources of difference such as age, sex, expertise and culture.

This full-color 2<sup>nd</sup> edition has been revised and updated to include:

- Revised and expanded coverage of taste processing and perception, touch perception, pitch perception, and receptive field modeling.
- New sections on word perception, the size after-effect, crowding, scene perception, and optic flow.
- A completely new chapter devoted to multi-sensory processing and synesthesia, with a new tutorial on attentional effects in perception.
- A new tutorial on visual dysfunction in artists.

The book includes a number of helpful textbook features, such as key terms, chapter summaries, ‘Tutorial’ sections in each chapter, and further reading. Extensive student and instructor supplementary resources are available free of charge to adopters of the textbook.

## Contents

1. General Principles. 2. The Chemical Senses. 3. The Body Senses. 4. The Physics and Biology of Audition. 5. Perception of Sound. 6. The Physics of Vision – Light and the Eye. 7. Visual Physiology. 8. Spatial Vision. 9. Shape and Object Perception. 10. Depth Perception. 11. Visual Motion Perception. 12. Color Vision. 13. Multi-sensory Processing in Perception. 14. Individual Differences in Perception.

January 2009: 7½x10: 464pp  
Hb: 978-1-84169-698-0: \$110.00  
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## Face Perception

Vicki Bruce, Newcastle University, UK

Andy Young, University of York, UK

Human faces are unique biological structures which convey a complex variety of important social messages. Even strangers can tell things from our faces – our feelings, our locus of attention, something of what we are saying, our age, sex and ethnic group, whether they find us attractive. In recent years there has been genuine progress in understanding how our brains derive all these different messages from faces and what can happen when one or other of the structures involved is damaged.

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## From Mental Imagery to Spatial Cognition and Language

Essays in Honour of  
Michel Denis

Valérie Gyselinck, Laboratoire de Psychologie et Neurosciences Cognitives, Université Paris Descartes, France  
Francesca Pazzaglia, University of Padua, Italy (Eds.)

Psychology Press Festschrift Series

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Hb: 978-1-84872-049-7: \$100.00

[www.cognitivepsychologyarena.com/9781848720497](http://www.cognitivepsychologyarena.com/9781848720497)



*Face Perception* provides an up-to-date, integrative summary by two authors who have helped develop and shape the field over the past 30 years. It encompasses topics as diverse as the visual information our brains can exploit when we look at faces, whether prejudicial attitudes can affect how we see faces, and how people with neurodevelopmental disorders see faces. The material is digested and summarised in a way that is accessible to students, with a structure that focuses on the different

things we can do with faces. It offers a compelling synthesis of behavioural, neuropsychological and cognitive neuroscience approaches to develop a distinctive point of view of the area.

The book concludes by reviewing what is known about the development of face processing, and re-examines the question of what makes faces 'special'. Written in a clear and accessible style, this is invaluable reading for all students studying face perception and social cognition.

Contents

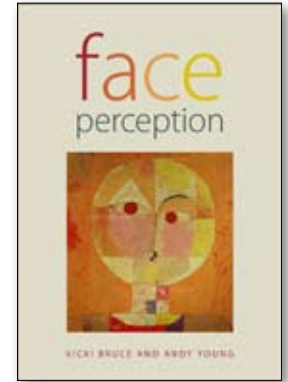
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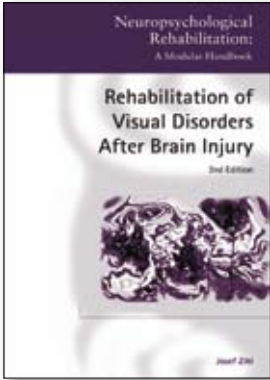
September 2011: 7½x10: 288pp

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**New!**

## Rehabilitation of Visual Disorders After Brain Injury

2nd Edition

Josef Zihl

Max Planck Institute of Psychiatry, Munich, Germany

**Neuropsychological Rehabilitation: A Modular  
Handbook Series**

*“The great thing about this book is Professor Zihl’s ability to integrate a strong cognitive neuroscience approach to understanding normal and pathological visual perception*

*with a pragmatic, sensitive and sensible approach to helping people with visual disorders after brain injury. I thought the first edition of this book was excellent. The second is even better.” - Jonathan Evans, Professor of Applied Neuropsychology, University of Glasgow, UK*

This thoroughly updated and extended edition covers the various cerebral visual disorders acquired after brain injury, as well as the rehabilitation techniques used to treat them. These are described within a brain plasticity framework, using data from single and group case studies along with follow-up observation data. This original, tailor-made approach also includes the recording of eye movements for assessing scanning performance in scene perception and reading.

The book gives a brief synopsis of the historical background on the subject, alongside an outline of intervention designs and methodological difficulties in the field, and goes on to discuss the mechanisms and processes that provide the foundations for recovery of function and successful adaptation in visually impaired patients. The author concludes by analyzing the importance of the procedures and outcomes of treatments to the reduction of patients’ visual handicaps.

The new edition also contains an appendix with recommendations on the case histories, diagnostics and treatments. It is ideal reading for students in clinical neuropsychology, as well as professionals in the fields of neurology, visual neuroscience and rehabilitation.

Contents

1. Introduction. 2. The Visual Brain. 3. Visual Field Disorders. 4. Visual Acuity, Spatial Contrast Sensitivity and Visual Adaptation. 5. Colour Vision. 6. Visual Space Perception. 7. Visual Agnosia. 8. Central Scotoma. References. Appendix.

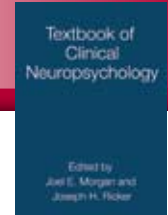
October 2010: 6x9: 288pp

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# Measurements with Persons

Theory, Methods, and Implementation Areas

Birgitta Berglund, University of Stockholm and Karolinska Institute, Sweden; Giovanni B. Rossi, Università degli Studi di Genova, Italy; James T. Townsend, Indiana University, USA; Leslie R. Penderill, Technical Research Institute of Sweden, Boras (Eds.)

## Scientific Psychology Series

Measurements with persons are those in which human perception and interpretation are used for measuring complex, holistic quantities and qualities, which are perceived by the human brain and mind. Providing means for reproducible measurement of parameters such as pleasure and pain has important implications in evaluating all kind of products, services, and conditions.

This book inaugurates a new era for this subject: a multi- and inter-disciplinary volume in which world-renowned scientists from the psychological, physical, biological, and social sciences reach a common understanding of measurement theory and methods.

In the first section, generic theoretical and methodological issues are treated, including the conceptual basis of measurement in the various fields involved; the development of formal, representational, and probabilistic theories; the approach to experimentation; and the theories, models, and methods for multidimensional problems. In the second section, several implementation areas are presented, including sound, visual, skin, and odor perception, functional brain imagining, body language and emotions, and, finally, the use of measurements in decision making.

*Measurements with Persons* will appeal to a wide audience across a range of sciences, including general psychology and psychophysics, measurement theory, metrology and instrumentation, neurophysiology, engineering, biology, and chemistry.

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### Part 1. Theory and

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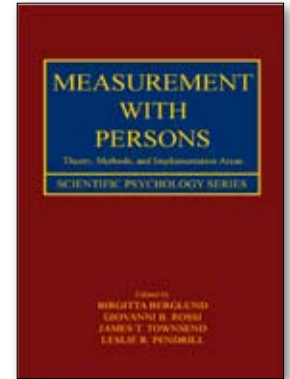
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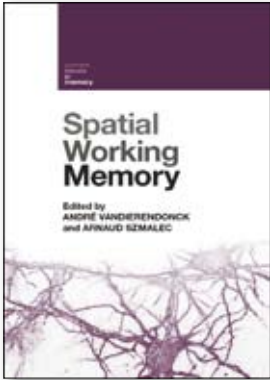
*L. Penderill*, Risk Assessment and Decision-making.

September 2011: 6x9: 352pp

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**Also of interest!**

## Spatial Working Memory

André Vandierendonck & Arnaud Szmalec (Eds.)  
Ghent University, Belgium

### Current Issues in Memory Series

*“This edited book marks the maturity of visuo-spatial working memory as a coherent and exciting topic of research. Advanced undergraduates will appreciate the dynamic status of the area while researchers will have a host of specific research ideas to further develop the topic. This is wonderful stuff!”* - Gerry Quinn, School of Psychology, University of St Andrews, UK

*“This book provides an extensive foundation in both historical and current conceptions of visuo-spatial working memory. Each chapter is written cogently and is very easy to read and understand. I’m excited to see this book published – it will be a certain addition to my bookshelf and course reading lists.”*  
- James R. Brockmole, Department of Psychology, University of Notre Dame, USA

Spatial working memory is the ability to remember the location in which something is perceived, and in addition, the ability to recall a series of visited locations. In this book, top researchers in the domain of spatial working memory review and discuss findings about the processes and memory structures which underlie the ability to store and use spatial information.

The first part of the book provides an examination of the working memory system, and looks at the behavioural and neural processes involved in working with (visuo-) spatial information and how these can constrain the hypotheses that are generated. It also addresses methodological questions, for example looking at how the use of the appropriate method can ensure that the observed data are as informative as possible about the underlying structures. The remaining chapters focus on specific problems to do with spatial working memory, such as how the working memory system can

handle individual differences in representing spatial interactions, how the visuospatial system can support and interact with the environment and the verbal system, and how understanding these systems can shed light on the development of particular skills in children with developmental disorders.

With contributions from leading international figures in the field, this book is the first to address the topic of spatial working memory from a range of theoretical and methodological perspectives. As such, it will serve as an indispensable tool for students and researchers interested in working memory.

### Contents

A. Vandierendonck, A. Szmalec, Progress in Spatial Working Memory Research. R.H. Logie, The Visual and the Spatial of a Multicomponent Working Memory. H. Zimmer, H.R. Liesefeld, Spatial Information in (Visual) Working Memory. F. Parmentier, Exploring the Determinants of Memory for Spatial Sequences. B. Postle, What Underlies the Ability to Guide Action With Spatial Information That is no Longer Present in the Environment? C. Cornoldi, I.C. Mammarella, The Organisation of Visuo-Spatial Working Memory: Evidence from the Study of Developmental Disorders. C. Hamilton, The Nature of Visuo-Spatial Representation within Working Memory. L. Pieroni, C. Rossi-Arnaud, A. Baddeley, What Can Symmetry Tell Us About Working Memory? V. Gyselinck, C. Meneghetti, The Role of Working Memory in Understanding Verbal Descriptions: A Window Onto the Interaction Between Verbal and Spatial Processing.

September 2011: 6x9: 224pp

Hb: 978-1-84872-033-6: \$62.50

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### Also of interest!

## The Visual World in Memory

James R. Brockmole (Ed.)  
University of Notre Dame, USA

### Current Issues in Memory Series

“The Visual World in Memory will be of interest to scientific cognitive psychology researchers for its ingenious methodologies and to researchers who want an overview of reasonably current work.” - William A. Adams, in *PsycCRITIQUES*

“The Visual World in Memory offers both cognitive scientists and the interested layperson an enjoyable stroll through the latest thinking on how we perceive the visual world. Brockmole has gathered some of the world’s leading experts as tour guides. They provide a highly integrated and comprehensive update of current theory in visual cognition, including topics as wide-ranging as face recognition, scene analysis, and eyewitness memories.” - Michael Tarr, Brown University, USA

The book examines how well we remember what we see. Research in human memory for visual material varies tremendously across the time scales, stimuli, and scenarios of interest. Because of these distinct pursuits, research in the field of ‘visual memory’ is in practice rather compartmentalized and as such is disseminated across a range of literatures. *The Visual World in Memory* pulls together this disparate field with a series of chapters, each written by a leading expert, that concisely present the state-of-the-science in all the areas of research. The result is a single source of information that bridges the divides within the field. Each chapter reviews and analyzes current theories and controversies regarding such issues as visual and spatial working memory, memory for visual features, conjunctions, objects, and locations, memory for faces, memory for real-world scenes, memory for visual events, the role of visual memory in motor planning and action, the relationship between visual memory, reference frames, and navigation, and visual imagery.

The rigorous discussion and analysis included in each chapter will appeal to established researchers and vision scientists whilst the breadth of the book will make it an ideal companion for students learning about memory.

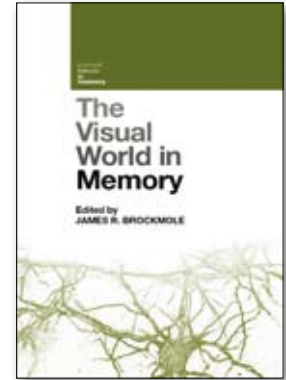
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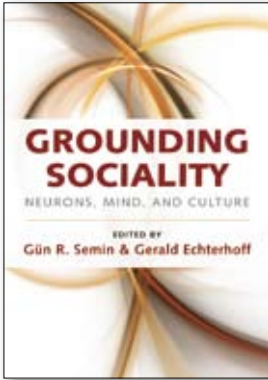
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**Also of interest!**

## Grounding Sociality

Neurons, Mind, and Culture

Gün R. Semin, Utrecht University, The Netherlands  
 Gerald Echterhoff, University of Münster, Germany (Eds.)

*"A must-read overview of the cutting-edge science of embodied, situated social responses, here grounded at bodily levels from cortex to culture. The sampled authors provide original, deep, and provocative accounts of this exciting approach."* - Susan T. Fiske, Eugene Higgins Professor, Department of Psychology, Princeton University, USA

*"Fundamental questions about the processes underlying human sociality have recently come into focus: how do we understand and empathize with each others' mental states, cooperate, and carry out joint action? This timely collection brings together major contributions from perspectives ranging across social psychology, neuroscience, evolution, ecological psychology, and cultural psychology. It will be a valuable resource for any researchers interested in the origins and nature of social life."*

- Eliot R. Smith, Chancellor's Professor of Psychological and Brain Sciences, Indiana University, USA

*"In this exciting volume, internationally renowned experts offer incisive and nuanced accounts of the grounding of human sociality from multiple disciplinary perspectives. This is a volume the field has been waiting for."* - Chi-yue Chiu, Nanyang Technological University, Singapore

This volume concerns the longstanding intellectual puzzle of how individuals overcome their biological, neural, and mental finitude to achieve sociality. It explores how humans take each other into account, coordinate their actions, and are able to share their inner states and to communicate.

Sophisticated views on the bases of sociality are detailed at the level of neural mechanisms, perception and memory, motivation, communication and dialog, culture,

and evolution. These insights have been inspired by major strides and exciting new developments in disciplines as diverse as ethology, evolutionary ecology, neuroscience, cognition, memory, developmental and social psychology, psycholinguistics, philosophy, robotics, and sociology. The volume is the first to bridge these disciplinary boundaries to lay the foundations for an integrated and general conceptualization of the bases of sociality and its implications for psychology. Each contribution presents different levels of the grounding of sociality and will further stimulate novel approaches to linking different layers of sociality, from the neural to the cultural level.

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November 2010: 6x9: 288pp

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[www.cognitivepsychologyarena.com/9781848728998](http://www.cognitivepsychologyarena.com/9781848728998)

# Social Psychology of Visual Perception

Emily Balcetis, New York University, USA

G. Daniel Lassiter, Ohio University, Athens, USA (Eds.)

*"Perception depends on perceivers, and human perceivers are inescapably social. This intriguing set of papers describes some of the intricate ways our social sensibilities affect how we see, illuminating both perception and social psychology."* - Barbara Tversky, Teachers College, Columbia University; Professor Emerita, Stanford University, USA

*"Emily Balcetis and G. Daniel Lassiter have compiled an outstanding collection of chapters ... with each contribution providing compelling evidence that social and emotional factors contribute to the psychological meaning of perceptual awareness. This is a book that will inform and delight anyone interested in the psychology of everyday perceptual experience."* - Dennis R. Proffitt, Commonwealth Professor and Chair of Psychology, University of Virginia, USA

This volume takes a contemporary and novel look at how people see the world around them. We generally believe we see our surroundings and everything in them with complete accuracy. However, as the contributions to this volume argue, this assumption is wrong: people's view of their world is cloudy at best.

*Social Psychology of Visual Perception* is a thorough examination of the nature and determinants of visual perception, which integrates work on social psychology and vision. It is the first broad-based volume to integrate specific sub-areas into the study of vision, including goals and wishes, sex and gender, emotions, culture, race, and age.

The multiple perspectives in the book will appeal to researchers and students in a range of disciplines, including social psychology, cognition, evolutionary psychology, and neuroscience.

## Contents

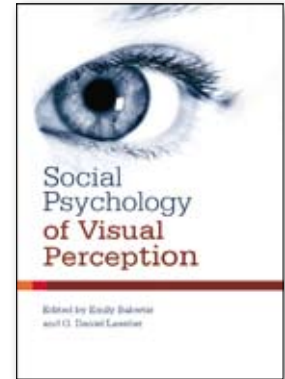
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## Cognitive and Cultural Influences on Eye Movements

Keith Rayner, University of California, San Diego, USA; Deli Shen, Xuejun Bai, Guoli Yan, Tianjin Normal University, China (Eds.)

It is well-known that cognitive variables influence eye movements during reading. To what extent do cultural differences influence eye movements? This volume contains chapters that examine these two issues.

The first half of the volume documents recent research findings with respect to models of eye movement control in reading, eye movements and visual processing, and eye movements during scene perception, search, and

mental rotation. The second half of the volume deals with two main cultural issues: eye movements in reading Chinese and cultural influences on eye movements. A number of experts provide overviews of their research findings concerning the topics in the five sections of the volume.

Readers interested in eye movements in reading, cognitive influences on eye movements, and cultural influences on eye movements will find the chapters valuable reading.

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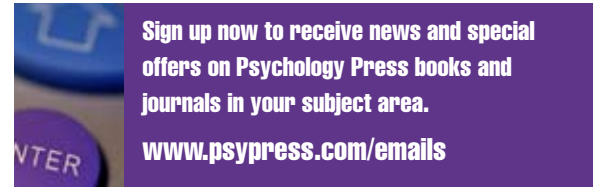
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# Thinking Visually

Stephen K. Reed

Center for Research in Mathematics and Science Education, San Diego, USA

Language is a marvelous tool for communication, but it is greatly overrated as a tool for thought. This volume documents the many ways pictures, visual images, and spatial metaphors influence our thinking. It discusses both classic and recent research that support the view that visual thinking occurs not only where we expect to find it, but also where we do not. Much of comprehending language, for instance, depends on visual simulations of words or on spatial metaphors that provide a foundation for conceptual understanding.

*Thinking Visually* supports comprehension by reducing jargon and by providing many illustrations, educational applications, and problems for readers to solve. It provides a broad overview of topics that range from the visual images formed by babies to acting classes designed for the elderly, from visual diagrams created by children to visual diagrams created by psychologists, from producing and manipulating images to viewing animations. The final chapters discuss examples of instructional software and argue that the lack of such software in classrooms undermines the opportunity to develop visual thinking. The book includes the Animation Tutor™ DVD to illustrate the application of research on visual thinking to improve mathematical reasoning.

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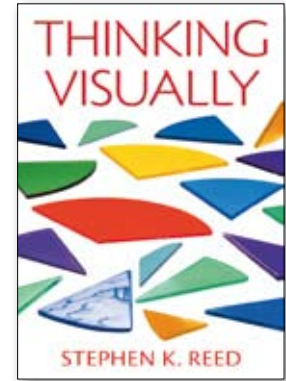
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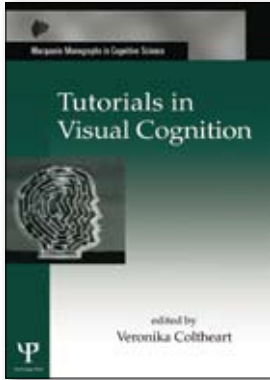
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## Tutorials in Visual Cognition

Veronika Coltheart (Ed.)  
Macquarie University, Australia

### Macquarie Monographs in Cognitive Science Series

*"I enthusiastically recommend this volume to all serious students of human visual cognition. Editor Coltheart has assembled just the right mix of researchers, each ably offering accessible and provocative glimpses into how cognitive scientists pose and answer questions during the first decade of the twenty-first century."* - **James T. Enns**, University of British Columbia, Canada

*"Research on visual cognition has exploded over the past two decades as cognitive psychologists have realized that*

*standing on the firm footing of vision science allows them to more easily reach up to grasp complex cognitive processes. This volume provides an excellent overview of the progress that has been made across the key domains of visual cognition, including chapters written by many of the leaders in the field."* - **Steven Luck**, University of California, Davis, USA

In the late-1980s, visual cognition was a small subfield of cognitive psychology, and the standard texts mainly discussed just iconic memory in their sections on visual cognition. In the subsequent two decades, and especially very recently, many remarkable new aspects of the processing of brief visual stimuli have been discovered – change blindness, repetition blindness, the attentional blink, newly-discovered properties of visual short-term memory and of the face recognition system, the influence of reentrant processing on visual perception, and the surprisingly intimate relationships between eyeblinks and visual cognition.

This volume provides up-to-date tutorial reviews of these many new developments in the study of visual cognition written by the leaders in the discipline, providing an incisive and comprehensive survey of research in this dynamic field.

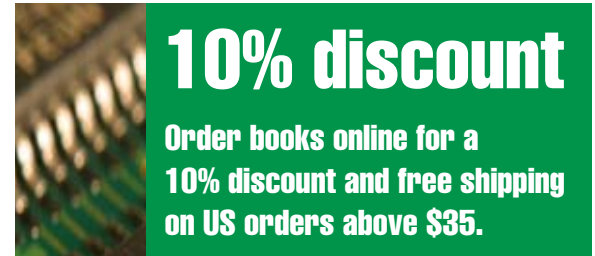
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# The Frog Who Croaked Blue

## Synesthesia and the Mixing of the Senses

Jamie Ward

University of Sussex, UK

*"A fascinating introduction to synaesthesia, explaining how the trait gives insight into the way the senses are organized. Ward also delves into other sensory experiences, such as phantom limbs and sympathetic touch, in an accessible introduction to this growing research field." - Nature*

*"The writing is jargon free, and there are careful explanations of both scientific terms and the methods used by scientists to test hypotheses and build theories. This should make the book accessible to a range of readers ... First, those with little or no scientific training may have interest in the book. ... Second, the book is appropriate as a supplement to university courses on topics such as sensation, perception, cognition, or cognitive neuroscience. Students should find interest in exploring how synesthetic information processes compare with the sensory processes typically covered in university courses. Third, the book may be of use to clinicians – for example, clinical psychologists, neuropsychologists, psychiatrists, neurologists – who may encounter synesthesia among their patients. ... Last, the book may be of interest to scientists who have little familiarity with the topic, and even the few experts in the area should be interested in Ward's new synthesis." - Andrew B. Slifkin & Katherine A. Koenig, in PsysCRITIQUES*

*"The Frog Who Croaked Blue reads like a fascinating novella-length essay. Ward is clearly enthralled by the topic, and he has no trouble finding interesting issues to address." - Scientific American Mind*

As little Edgar Curtis lay on his porch, he remarked to his mother how the noise of the rifle range was black, the chirp of the cricket was red, and the croak of the frog was bluish. Edgar, like many other people, has synesthesia – a fascinating condition in which music can have color, words can have taste, and time and numbers float through space.

Everyone will be closely acquainted with at least 6 or 7 people who have synesthesia but you may not yet know who they are because, until very recently, synesthesia was largely

hidden and unknown. Now science is uncovering its secrets and the findings are leading to a radical rethink about how our senses are organized. In this timely and thought-provoking book, Jamie Ward argues that sensory mixing is the norm even though only a few of us cross the barrier into the realms of synesthesia.

How is it possible to experience color when no color is there? Why do some people experience touch when they see someone else being touched? Can blind people be made to see again by using their other senses? Why do scientists no longer believe that there are five senses? How does the food industry exploit the links that exist between our senses? Does synesthesia have a function? *The Frog Who Croaked Blue* explores all these questions in a lucid and entertaining way, making it fascinating reading for anyone with an interest in the intriguing workings of the mind.

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1. The Colorful Albino. 2. Counting on the Senses. 3. An Altered Reality. 4. The Screen in My Forehead. 5. Beyond the Senses.

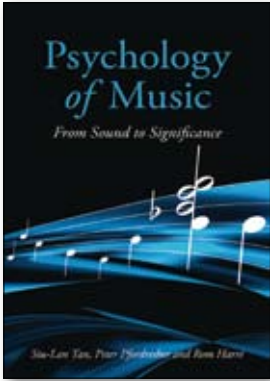
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## Psychology of Music

### From Sound to Significance

Siu-Lan Tan, Kalamazoo College, USA; Peter Pfordresher, University at Buffalo, the State University of New York, USA; Rom Harré, Georgetown University, Washington, USA

*“Tan, Pfordresher and Harré provide a nice, engaging and up-to-date overview of the psychology of music, from acoustics to ethnomusicology. The authors accompany the reader through the meanders of this complex field which spans several disciplines. The book, written in a plain and introductory style, is the ideal guide for students, and a refreshing overview for specialists and non-specialists*

*interested in the psychology of music.”* - Simone Dalla Bella, Department of Psychology, WŚFiZ, Warsaw, Poland and BRAMS, Montreal, Canada

Why are some disturbances of air molecules heard as ‘noise’ while others are perceived as music? What happens at the level of the sound wave, the ear, and the brain when we perform or listen to music? How do musical abilities emerge and develop, and become refined as one acquires musical expertise? And what gives music its deep emotional significance and its power to influence social behavior, across vastly different cultural contexts? These are some of the primary questions defining the field called ‘the psychology of music’ and driving the present volume.

This book provides an introduction to classic and current studies in the psychology of music, combining a comprehensive summary with critical assessments of existing research. The volume captures the interdisciplinary breadth of the field, while covering central topics in depth. Part One explores sound and music at an acoustic level, explaining auditory events with respect to the workings of the ear and brain. Part Two focuses on perception and cognition of melody, rhythm, and formal structure. Part Three examines the emergence and development of musical skills, and turns to the most practical aspects of psychology of music: music practice and performance. Finally, Part

Four broadens the discussion to the question of meaning in music, with respect to its social, emotional, philosophical, and cultural significance. Throughout, both behavioral and neuroscientific perspectives are developed.

This book will be invaluable to undergraduate and postgraduate students in the fields of psychology and music, and will appeal to anyone else who is interested in the psychology of music.

#### Contents

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April 2010: 6x9: 368pp

Hb: 978-1-84169-868-7: \$62.95

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# Space and Sense

Susanna Millar

University of Oxford, UK

## Essays in Cognitive Psychology Series

*“This is a fine book reviewing with excellent clarity the most influential literature on the similarities/differences between active touch and vision and stressing the importance of stimulus redundancy in perception which allows, through input integration, a stable representation of the world.” - Laila Craighero, University of Ferrara, Italy, in *Perception**

How do we perceive the space around us, locate objects within it, and make our way through it? What do the senses contribute?

This book focuses on touch in order to examine which aspects of vision and touch overlap in spatial processing. It argues that spatial processing depends crucially on integrating diverse sensory inputs as reference cues for the location, distance or direction response that spatial tasks demand.

Susanna Millar presents new evidence on the role of spatial cues in touch and movement both with and without vision, and discusses the interaction of both touch and movement with vision in spatial tasks. The book shows how perception by touch, as by vision, can be helped by external reference cues, and that ‘visual’ illusions that are also found in touch depend on common factors and do not occur by chance. It challenges traditional views of explicit external reference cues, showing that they can improve spatial recall with inputs from touch and movement, contrary to the held belief.

*Space and Sense* provides empirical evidence for an important distinction between spatial vision and vision that excludes spatial cues in relation to touch. This important volume extends previous descriptions of bimodal effects in vision and space.

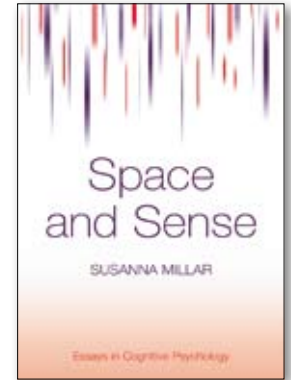
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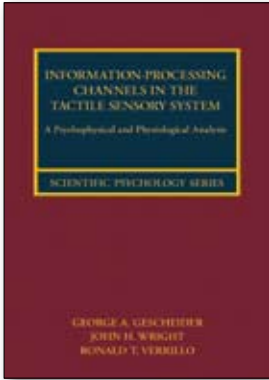
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2008: 6x9: 248pp

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# Information-Processing Channels in the Tactile Sensory System

A Psychophysical and Physiological Analysis

George A. Gescheider, Hamilton College, Canada;  
John H. Wright, Neurologist; Ronald T. Verrillo,  
Institute for Sensory Research at Syracuse University,  
USA

Scientific Psychology Series

*“The text is exceptionally well written and thought out as it takes the reader through a painstaking analysis of the research data to build a case for complexity in touch*

*perception.” - Paula Goolkasian in PsycCRITIQUES*

This book addresses the fundamental question of whether sensory channels, similar to those known to operate in vision and audition, also operate in the sense of touch.

Based on the results of psychophysical and neurophysiological experimentation, the authors make a powerful case that channels operate in the processing of mechanical stimulation of the highly sensitive glabrous skin of the hand. According to the multichannel model presented in this monograph, each channel, with its specific type of mechanoreceptor and afferent nerve fiber, responds optimally to particular aspects of the tactile stimulus. It is further proposed that the tactile perception of objects results from the combined activity of the individual tactile channels. This work is important because it provides researchers and students in the field of sensory neuroscience with a comprehensive model that enhances our understanding of tactile perception.

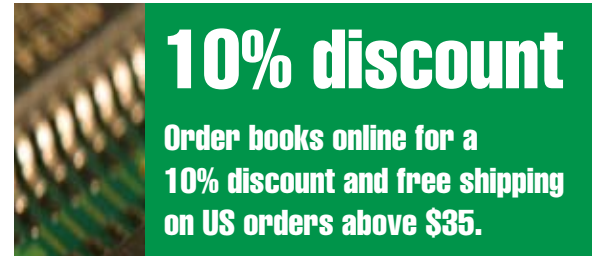
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Preface. 1. Channels in Touch. 2. Identification of Specific Neural Systems Responsible for Mechanoreception. 3. The Neural Bases of the Tactile Systems. 4. From Neural Systems To Information-Processing Channels. 5. Properties of Tactile Channels. 6. The Functional Roles of Channels. 7. Channel Interactions. 8. Conclusions.

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Also of interest!

## Sensory Marketing

### Research on the Sensuality of Products

Aradhna Krishna (Ed.)

University of Michigan, Ann Arbor, USA

*“Understanding the role that touch, taste, smell and sight play in marketing is important and underserved. Aradhna Krishna’s new edited book is thorough and wide-ranging, as well as thought provoking and illuminating. This will be an influential book, critical for anyone studying the impact of senses in marketing.”* - Jennifer Aaker, General Atlantic Professor of Marketing, Stanford University, USA

Krishna defines sensory marketing as “marketing that engages the consumers’ senses and affects their behaviors.” In this edited book, the authors discuss how sensory aspects of products, i.e., their feel, taste, smell, sound, and look, affect our emotions, memories, perceptions, preferences, choices, and consumption of these products. We see how creating new sensations, or merely emphasizing or bringing attention to existing sensations, can increase a product’s or service’s appeal. The book provides an overview of sensory marketing research that has taken place thus far. It should facilitate sensory marketing by practitioners and also can be used for research or in academic classrooms.

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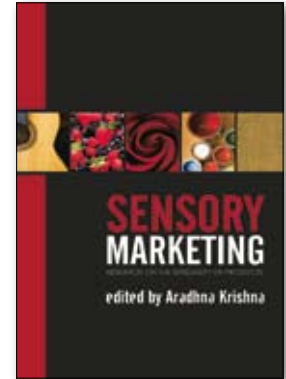
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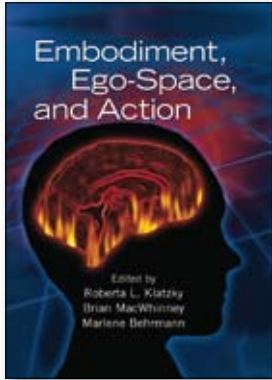
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## Embodiment, Ego-Space, and Action

Roberta L. Klatzky, Brian MacWhinney, Marlene Behrmann, Carnegie Mellon University, USA (Eds.)

### Carnegie Mellon Symposia on Cognition Series

*"This book will be of interest to anyone working in the emerging field of embodied cognition or allied fields of ecological psychology and situated robotics. Traditionally-trained cognitive psychologists should read it to let the embodied cognition movement challenge the default assumption that the brain is a computational device and instead try to view it as a control system for the body. The*

*chapters are well written and interesting ... they are suitable mainly for professionals, graduate students, and advanced undergraduates."* - William A. Adams, *PsycCRITIQUES*

The majority of research on human perception and action examines sensors and effectors in relative isolation. What is less often considered in these research domains is that humans interact with a perceived world in which they themselves are part of the perceptual representation, as are the positions and actions (potential or ongoing) of other active beings. It is this self-in-world representation that we call embodiment.

Increasingly, research demonstrates that embodiment is fundamental to both executing and understanding spatially and interpersonally directed action. It has been theorized to play a role in reaching and grasping, locomotion and navigation, infant imitation, spatial and social perspective taking, and neurological dysfunctions as diverse as phantom limb pain and autism. Few formal ideas have been put forward, however, to describe how self-representation functions at a mechanistic level and what neural structures support those functions. This volume reports on the 2006 Carnegie Symposium on Cognition, which brought together the contributions to these issues from a group of researchers who span perspectives of behavioral science, neuroscience, developmental psychology and computation. Together they share their findings, ideas, aspirations, and concerns.

### Contents

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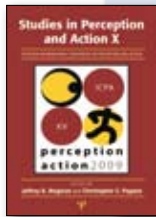
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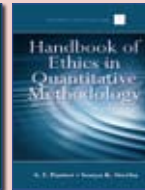
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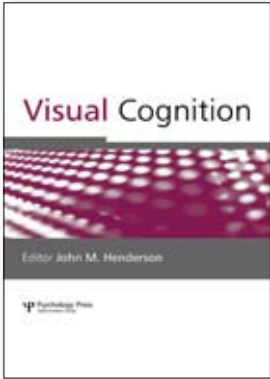
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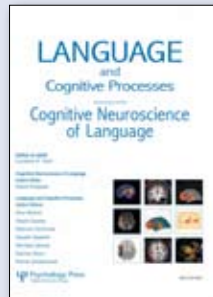
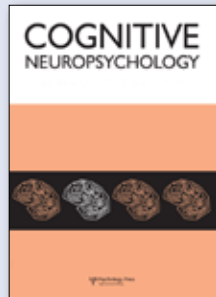
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