

Sensation & Perception

2007 New Titles and Key Backlist



Contents

Allen, Applied Spatial Cognition	8	Mather, Foundations of Perception	5
Andreassi, Psychophysiology, 5th Edition	6	Millar, Space and Sense	2
Barry & Johnston, Age of Acquisition Effects in Word and Object Processing	11	Müller & Krummenacher, Visual Search and Attention	11
Bruce et al., Visual Perception, 4th Edition	10	Pepping & Grealy, Closing the Gap	4
Colonius & Dzhafarov, Measurement and Representation of Sensations	9	Plack, The Sense of Hearing	6
Cornoldi & Vecchi, Visuo-spatial Working Memory and Individual Differences	10	Rieser et al., Blindness and Brain Plasticity in Navigation and Object Perception	3
Cummins-Sebree et al., Studies in Perception and Action IX	3	Sarris, Relational Psychophysics in Humans and Animals	8
Fox, Visual Social Cognition	11	van der Heijden, Attention in Vision	10
Gordon, Theories of Visual Perception	10	Wade & Swanston, Visual Perception, 2nd Edition	10
Greenberg & Ainsworth, Listening to Speech	7	Wagner, The Geometries of Visual Space	7
Heller & Ballesteros, Touch and Blindness	10	Yantis, Visual Perception	10
Henderson, Real World Scene Perception	11		
Klatzky et al., Embodiment, Ego-Space, and Action	2	Journal	
König et al., The Auditory Cortex	9	Visual Cognition	11
Macmillan & Creeman, Detection Theory, 2nd Edition	10		

Space and Sense

Susanna Millar

Oxford University, UK

Essays in Cognitive Psychology Series



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. *Space and Sense* 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.

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' illusion 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 new volume extends previous descriptions of bimodal effects in vision and space.

CONTENTS

Introduction: Overview and Layout of the Book. 1. Concepts of Space and Perception Through Touch and Vision in Historical Perspective. 2. The Reference Hypothesis: Spatial Coding as Integrative Processing of Converging Inputs from Vision, Touch and Movement. 3. Cues which Lure People from Walking Straight Ahead in Large-scale Spaces that Lack Reference Cues. 4. Hand Movements and Spatial Cues in Small-scale Space and in Shape Perception by Touch. 5. External and Body-centered Reference in Haptic Memory for Spatial Locations. 6. 'Visual' Illusions that Occur in Touch: Evidence for Some Common Factors. 7. Müller-Lyer Shapes in Touch and Vision. 8. What Does Vision Contribute to Touch? 9. How Far Have We Got? 10. Where are We Going?

February 2008: 6x9: 192pp

Hb: 978-1-84169-525-9 ISBN10: 1-84169-525-4: \$44.95

www.psypress.com/essays/cognitive

Embodiment, Ego-Space, and Action

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

Carnegie Mellon Symposia on Cognition Series

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

R.L. Klatzky, M. Behrmann, B. MacWhinney, Editors' Preface. *J.M. Loomis, J.W. Philbeck*, Measuring Spatial Perception with Spatial Updating and Action. *G. Knoblich*, Bodily and Motor Contributions to Action Perception. *C.L. Reed, D.N. McIntosh*, The Social Dance: On-line Body Perception in the Context of Others. *M. Shiffrar*, Embodied Motion Perception: Psychophysical Studies of the Factors Defining Visual Sensitivity to Self and Other Generated Actions. *R.L. Klatzky, B. Wu*, The Embodied Actor in Multiple Frames of Reference. *D. Proffitt*, An Action-Specific Approach to Spatial Perception. *P. Cisek*, The Affordance Competition Hypothesis: A Framework for Embodied Behavior. *J.C. Culham, J. Galloway, C. Cavina-Pratesi, D.J. Quinlan*, fMRI Investigations of Reaching and Ego Space in Human Superior Parieto-Occipital Cortex. *K. Adolph*, The Growing Body in Action: What Infant Locomotion Tells Us About Perceptually Guided Action. *B.I. Bertenthal, M.R. Longo*, Motor Knowledge and Action Understanding: A Developmental Perspective. *B. MacWhinney*, How Mental Models Encode Embodied Linguistic Perspectives.

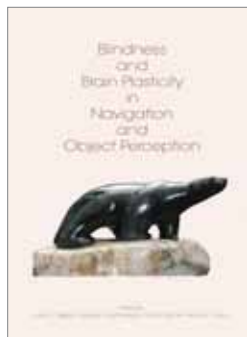
November 2007: 6x9: 352pp

Hb: 978-0-8058-6288-1 ISBN10: 0-8058-6288-9: \$75.00

New!

Blindness and Brain Plasticity in Navigation and Object Perception

John J. Rieser, Daniel H. Ashmead, Ford Ebner, Anne L. Corn, Vanderbilt University, USA (Eds.)



Research into the development of sensory structures in the brains of blind or visually-impaired individuals has opened a window into important ways in which the mind works. In these individuals, the part of the brain that is usually devoted to processing visual information is given over to increased processing of the touch and hearing sense. This demonstration of brain plasticity is of great importance to cognitive

neuroscientists and cognitive psychologists, and has real implications for rehabilitation and education specialists who work with the visually impaired. This is an interdisciplinary book, featuring chapters from cognitive and developmental psychologists, neurologists and neuroscientists, and rehabilitation specialists and educators. All of these groups do research in this area but generally do not collaborate with one another. This book is an attempt to bring together the disparate threads of research into a single volume, appropriate for all three markets.

CONTENTS

Preface. Introduction. *J.J. Rieser*, Theory and Issues in Research on Blindness and Brain Plasticity. *H.L. Pick*, History of Research on Blindness and Brain Plasticity. **Part I: Experience Dependent Recruitment of Visual Cortex for Nonvisual Learning and Development.** *L.B. Merabet, N.B. Pitskel, A. Amedi, A. Pascual-Leone*, The Plastic Human Brain in Blind Individuals: The Cause of Disability and the Opportunity for Rehabilitation. *J. Rauschecker*, Plasticity of Cortical Maps in Visual Deprivation. *A. Vanlierde, L. Renier, A.G. De Volder*, Brain Plasticity and Multi-Sensory Experience in Early Blind Individuals. *P. Melzer, F. Ebner*, Braille, Plasticity, and the Mind. *K. Sathian, S. Lacey*, Visual Cortical Involvement During Tactile Perception in Blind and Sighted Individuals. *I. Fine*, The Behavioral and Neurophysiological Effects of Sensory Deprivation. **Part II: Perception, Sensory Substitution, and Cognitive Strategies.** *J.M. Loomis, R. Klatzky*, Functional Equivalence of Spatial Representations From Vision, Touch, and Hearing: Relevance for Sensory Substitution. *R. Klatzky, S. Lederman*, Object Recognition by Touch. *G. Legge, S.-H. Cheung, S.T.L. Chung, H.-W. Lee, J. Gefroh, M.Y. Kwon*, Training Peripheral Vision to Read. *P.A. Cummins, J.J. Rieser*, Strategies of Maintaining Dynamic Spatial Orientation When Walking Without Vision. *F. Mast, T. Zaehle*, Spatial Reference Frames Used in Mental Imagery Tasks. *M. Heller, A. Clark*, Touch as a "Reality Sense". **Part III: From Use-Oriented Research to Application.** *P. Ponchillia*, Nonvisual Sports and Art: Fertile Substrates for the Growth of Knowledge About Brain Plasticity in People Who are Blind or Have Low Vision. *B.L. Bentzen*, Making the Environment Accessible to Pedestrians Who are Visually Impaired: Policy Research. *R. Long*, Crossing Streets Without Vision: Access to Information, Strategies for Traveling, and the Impact of Technology, Training, and Environmental Design. *D. Guth*, Why Does Training Reduce Blind Pedestrians' Veering? *R.W. Emerson, D. Ashmead*, Visual

Experience and the Concept of Compensatory Spatial Hearing Abilities. *F. Vital-Duran*, Rehabilitation Strategies in Individuals With Age-Related Macular Degeneration.

August 2007: 6x9: 448pp

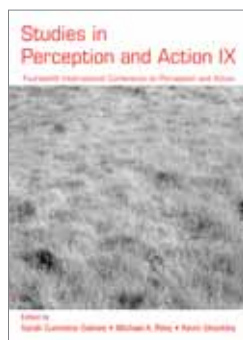
Hb: 978-0-8058-5551-7 ISBN10: 0-8058-5551-3: \$110.00

New!

Studies in Perception and Action IX Fourteenth International Conference on Perception and Action

Sarah Cummins-Sebree, Michael A. Riley, Kevin Shockley, University of Cincinnati, USA (Eds.)

Studies in Perception and Action Series



The edited book series *Studies in Perception and Action* contains a collection of research presented at the International Conference on Perception and Action (ICPA). The *Studies* series has appeared in conjunction with the biennial ICPA since 1991. ICPA provides a forum for presenting new data, theory, and methodological developments relevant to the ecological approach to perception-action. This volume is

the 9th in the *Studies in Perception and Action* series, and it contains research presented at the 14th ICPA meeting in the summer of 2007.

The sixty papers presented in this volume represent the latest developments in ecological psychology research from four continents. In many instances, the contributions to *Studies* volumes reflect the first appearance of new ideas in a scientific venue. As a result, the *Studies* volumes contain the most recent and cutting edge research in perception and action. This volume will appeal to individuals who follow the research literature in ecological psychology, as well as those interested in perception, perceptual development, human movement dynamics, and social processes.

CONTENTS

Preface. **Part I: Affordances.** *B. Bril, J. Foucart*, Enacting the Perception of the Affordances of Potential Tools I: The Case of Children Hammering. *S. Cornus, G. Walther, T. Rupp, L. Rasseneur*, Perceiving the Obstacle Step-Acrossability After the Maximal Exercise Test. *J. Foucart, S. Hirata, K. Fuwa, B. Bril*, Enacting the Perception of the Affordances of Potential Tools II: The Case of Chimpanzees Nut-Cracking. *V.C. Ramenzoni, M. Riley, T. Davis, J. Snyder*, Perceiving Whether or Not Another Person Can Use a Step to Reach an Object. *G.-J. Pepping, J. Smith*, Posting Balls Through Holes: Effect of Hole-Size and Background Texture on Action Initiation Time and the Perception of Affordances. *S. Stasik, L.S. Mark*, Comfort as a Determinant of the Location of Critical Boundaries in the Act of Reaching. *K.R. Taylor, J.B. Wagman*, Feeling and Seeing to Avoid Tripping. *C.-M. Yang, T.A. Stoffregen, B.G. Bardy*, Postural Sway Supports Affordance Perception. **Part II: Interpersonal Perception and Dynamics.** *L.E. Bahrack, M. Vaillant-Molina, M.A. Shuman, L.C. Batista, L.C. Newell, I. Castellanos, T.S. Williams*, The Salience of Actions Over Faces for Young Infants. *A.A. Baker, K. Shockley, M.J. Richardson, C.A. Fowler*, Verbal Constraints on Interpersonal

Coordination. *N. Furuyama, K. Hayashi, H. Mishima*, Interpersonal Coordination Among Articulations, Gesticulations, and Breathing Movements: A Case of Articulation of /a/ and Flexion of the Wrist. *J.R.L. Goodman, R.W. Isenhowe, K.L. Marsh, R.C. Schmidt, M.J. Richardson*, The Interpersonal Phase Entrainment of Rocking Chair Movements. *R.W. Isenhowe, K.L. Marsh, C. Carello, R.M. Baron, M.J. Richardson*, The Specificity of Intrapersonal and Interpersonal Affordance Boundaries: Intrinsic Versus Extrinsic Metrics. *S.S. Valenti, M. Anderson, K. Chin, J. Schwartz*, Coordination of Self-Disclosure and Gossip in Adolescent Conversations. **Part III: Control of Locomotion.** *H. Bruggeman, W.H. Warren*, Integrating Target Interception and Obstacle Avoidance. *H. Doi, K. Ueda*, Estimating TTC (Time-to-Collision) of Non-Rigid Approaching Objects. *B.R. Fajen*, The Role of Calibration in Visually-Guided Braking. *K. Ito, T. Matsuishi, A. Ito, Y. Kojima, A. Miyashita, M. Aoyama*, Velocity Control of a Harbor Porpoise (*Phocoena phocoena*): A Case Study. *E.E. Kadar, P. Fisher, G.S. Virk*, Basic Strategies of Target Search by Smell. **Part IV: Dynamic Touch.** *J. Akita, K. Ito, T. Komatsu, T. Ono, M. Okamoto*, CyARM: Direct Perception Device by Dynamic Touch. *C. Carello, J. Kinsella-Shaw, E. Amazeen*, Peripheral Neuropathy and Length Perception by Dynamic Touch. *T.-C. Chan*, Haptic Perception of Rod Length in Force Pattern. *S.E. Cummins-Sebree, A.M. Tollner, K. Shockley*, Do Children and Adults Use Haptic Information When Selecting Tools for Simple Power and Precision Tasks? *S.J. Harrison, S. Lopresti-Goodman, R.W. Isenhowe, A. Hajnal, J. Kinsella-Shaw*, Perceived Heaviness With Variation in Rotational Inertia or Static Moment. *C.C. Pagano*, The Orientation of T-Shaped Objects Cannot be Perceived by Dynamic Touch. *W.L.B. Sachtler, P.M. Grove, T.E. von Wiegand, S.J. Biggs*, Spatial Distortions in Active Tactile Exploration. *A.M. Tollner, P. Hove, M.A. Riley*, Perceiving Affordances of Hockey Sticks. *J.B. Wagman*, *Students in Psychology 331.04*, "How Heavy?" Does Not Depend on Which Hand. **Part V: Perception and Interception of Moving Objects.** *R. Arzamarski, S.J. Harrison, C.F. Michaels*, Hand Trajectories for Catching Balls on Horizontal, Linear Trajectories. *B. Castaneda, R. Gray*, Effects of Attention on Performance in Baseball Batting. *I. Dolgov, M.K. McBeath, T.G. Sugar*, The Influence of Symmetry on Perception of Thrown, Oblong, Symmetrical Projectiles in 3D. *A. Hajnal, R.W. Isenhowe, S.J. Harrison, C.F. Michaels*, An Information-Based Account of Lateral Interception: Coupling of Hand Movements to Optics in Novel Trajectories. *J. Smith, G.-J. Pepping*, The Effects of Task Constraints on the Perceptual Guidance of Interceptive Reaching Toward a Moving Target. **Part VI: Audition.** *B.C. Kirkwood*, The Influence of Presentation Method on Auditory Length Perception. *R.L. Robart, L.D. Rosenblum*, Hearing Silent Shapes: Identifying the Shape of a Sound-Obstructing Surface. *R.L. Robart, L.D. Rosenblum*, Hearing Space: Identifying Rooms by Reflected Sound. *R. Goasdoué, B. Bril*, The Role of Instrument Properties in Music Performance: Variations in Sound and Movements Induced by Baroque-Violin Playing. *J.B. Wagman, K.M. Hopkins, J.L. Minarik*, Does Length Sound Like What Length Feels Like? **Part VII: Intermodal and Bimodal Perception-Action.** *C. Kim, T. Stoffregen, K. Ito, B. Bardy*, Coupling Movement to Acoustic Flow in Sighted Adults. *B. Mantel, B.G. Bardy, T.A. Stoffregen*, Intermodal Specification of Egocentric Distance in a Target Reaching Task. *A. Morice, I.A. Siegler, B.G. Bardy*, Exploiting New Perception-Action Solutions in Ball Bouncing. *J. Schmutz, D. Hyde, S. Gunderson, K. Gordon, R. Flom*, The Effects of Bimodal and Unimodal Familiarization on Infants' Memory for Unimodal Events. *M. Streit, K. Shockley*, Optical Gain and the Perception of Heaviness. **Part VIII: Action and Coordination Dynamics.** *C. Carello, G.L. Pellicchia, P.G. Amazeen, M.T. Turvey*, Stability and Variability of Rhythmic Coordination With Compromised Haptic Perceptual Systems. *E. Faugloire, B.G. Bardy, T.A. Stoffregen*, (De)Stabilization of Required

vs. Spontaneous Postural Dynamics With Learning. *N. Hirose*, Effects of Task and Individual Characteristics on Microslips of Action. *S.L. Hong, J.J. Sosnoff, K.M. Newell*, Complexity and Stability in Isometric Force Production. *J. Issartel, L. Marin, T. Bardainne, P. Gailliot, M. Cadopi*, A New Method for Studying Non-Stationary Signals in Human Movement: The Cross-Wavelet Transform. *B.A. Kay, T.G. Rhodes, A. Hajnal, R.W. Isenhowe*, Stability of Coordination Between Upper and Lower Body Rhythms During Treadmill Walking: Response to Changes in Walking Speed. *A.J. Olmstead, R. Arzamarski, M. Moreno, G.L. Pellicchia*, Effects of Coordination Stability on Simple Reaction Time in Dual Task Performance. **Part IX: Postural Stabilization.** *C.T. Bonnet, T.A. Stoffregen, B.G. Bardy*, Postural Stabilization of Looking: Eye Movement Data. *O. Oullier, B.G. Bardy, R.J. Bootsma, T.A. Stoffregen*, Intention to Sway Stabilizes Postural Coordination. *V.C. Ramenzoni, M.A. Riley*, Effects of Concurrent Memory Task on the Maintenance of Upright Stance. *N.E. Saunders, M.A. Riley*, Explicitly Minimizing Postural Sway While Performing a Visuo-Spatial Cognitive Task. **Part X: Picture Perception and Distance Perception.** *R.E. Jackson*, Falling Towards a Theory of the Vertical-Horizontal Illusion. *I. Juricevic, J. Kennedy*, Perspective Picture Perception: A Test of the ART Theory. *I. Juricevic, J. Kennedy*, Object Constancy: Object Orientation Affects Relative Depth in Perspective Pictures? **Part XI: Pedagogy.** *J. Effken, G. Lamb, M. McEwen, J. Verran, D. Vincent, M. Young*, Using EPAID to Design Doctoral Minors.

July 2007: 6x9: 352pp

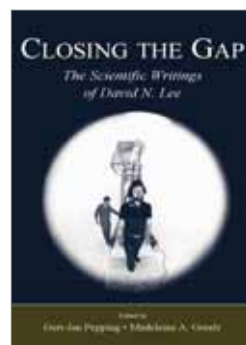
Pb: 978-0-8058-6357-4 ISBN10: 0-8058-6357-5: \$75.00

Closing the Gap

The Scientific Writings of David N. Lee

Gert-Jan Pepping, University Medical Centre Groningen, The Netherlands

Madeleine A. Grealy, University of Glasgow, UK (Eds.)



This book is a collection of Lee's most important works, placed in a historical setting and contextualized through the commentaries of other leading researchers in the field. The contributors were selected on the basis of their standing in the field. Some have been directly involved in collaborations with Lee, while others have participated in public discussions on particular controversies. All contributors know

David Lee well as a researcher and scholar, and some know him on a more personal level—as a student, supervisor, mentor, or friend. It is this mixture of involvements with David Lee and his writings that yields a unique exchange of ideas on the origins of movement. *Closing the Gap: The Scientific Writings of David N. Lee* is an invaluable resource for academics and postgraduate students studying perceptuo-motor control.

CONTENTS

Preface. *H. Pick, Jr., A.D. Pick*, Foreword. *C. Trevarthen*, Moving Experiences: Perceiving as Action With a Sense of Purpose. *J. Delafeld-Butt, B. Schögler*, The Ubiquitous Nature of Tau. *M. Grealy, J. Smith, G.-J. Pepping*, Thinking Tau: The Emergence of Intrinsic Guidance. *A.P. Georgopoulos*, A Tribute to Tau. *D. Young*, Navigation. *C. von Hofsten*, Ideas on the Development and Control of Actions. *W.H. Warren*, Action-Scaled Information for the Visual

Control of Locomotion. *J. Thomson*, Promoting the Development of Pedestrian Traffic Skills in Young Children. *R. van der Weel*, *C. Craig*, *A. van der Meer*, The Rate of Change of Tau.

January 2007: 6x9: 408pp

Hb: 978-0-8058-5619-4 ISBN10: 0-8058-5619-6: \$110.00

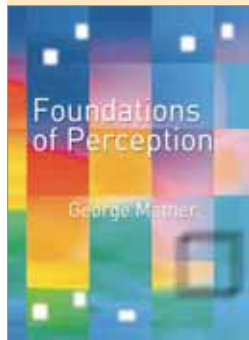
Pb: 978-0-8058-6316-1 ISBN10: 0-8058-6316-8: \$55.00

Textbook!

Foundations of Perception

George Mather

University of Sussex



"Students who master the material presented in this book will have an excellent grasp of sensation and perception. ... In addition to a thorough presentation of the topics of interest, Mather has included some excellent pedagogical features that ... put this book in a class by itself. ... Each chapter features excellent and well-labeled figures, tables, or photographs. ... Although it is not part of the book per se, the Perception

Student Learning Program (PSLP) also deserves mention. ... Would I use it for my S&P course? The answer is a resounding yes. I heartily recommend it to all faculty and students." -

Stephen F. Davis, in *PsycCRITIQUES*

"George Mather's Foundations of Perception is the best text on perception in a long time. It presents the basics in an accessible and engaging manner. All the most recent advances in research are here as well, covered as thoroughly as in any reference text, but much more readable in the broad context of the book. Foundations of Perception is an excellent fit for an introductory course on sensation and perception, outshining others in its range, depth, and clarity. It would be equally at home in an upper level course as a complement to a series of original articles." - Patrick Cavanagh, Vision Sciences Laboratory, Harvard University

This clear and balanced introduction to perception examines all the major and minor senses, including vision, hearing, touch, balance, taste and smell. It provides the reader with a thorough analysis of our perceptual experience, how it relates to the physical properties of the world and how it is linked to the biological properties of the brain. Coverage of the senses begins with the minor senses and ends with vision: fundamental principles are easier to grasp when first encountered in relation to relatively simple sensory systems.

Unique features of this text include:

- An introductory chapter on general physiological, perceptual and theoretical principles giving the reader the conceptual tools to build a clear understanding of how we perceive the world

- Each chapter includes a 'Tutorials' section. This provides an opportunity for more advanced students to explore supplementary information on recent or controversial developments in subjects such as the physics and biology of audition; shape and object perception; and mathematics and computational modelling in modern perceptual research
- Individual differences are also considered, as are potential sources of difference such as age, sex, expertise and culture
- Substantial coverage and a tutorial on the sense of balance
- Student and Instructor multimedia resources, more extensive than those offered with other sensation and perception textbooks, free of charge to adopters.

This book will be an invaluable resource for those studying psychology and neuroscience, enabling the reader to achieve a firm grasp of current knowledge concerning the complex processes that underlie our perception of the world.

Student Resources: Perception Student Learning Program

The student website includes our Perception Student Learning Program (Perception SLP) which offers a unique and innovative approach to study. The Perception SLP is available free of charge to departments adopting the textbook.

Each chapter from *Foundations of Perception* is condensed into a concise summary version, providing an effective set of revision notes. These notes also expand on and elucidate the book's content and include links to a range of other multimedia materials. Demo chapters from the Perception Student Learning Program are available at www.psypress.com/mather.

Instructor Resources

We offer web-based, password-protected resources free of charge to instructors who recommend *Foundations of Perception* by George Mather. These resources include a comprehensive chapter-by-chapter slideshow lecture course, and a set of short-answer questions per chapter to stimulate discussion.

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. Colour Vision. 13. Individual Differences in Perception.

January 2006: 7½x9¾: 408pp

Hb: 978-0-86377-834-6

ISBN10: 0-86377-834-8: \$90.00

Pb: 978-0-86377-835-3

ISBN10: 0-86377-835-6: \$44.95

Available as an examination copy

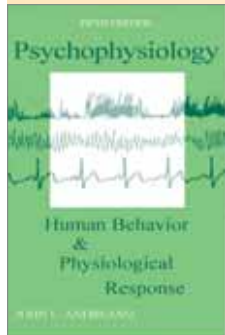
Psychophysiology

Human Behavior and Physiological Response

5th Edition

John L. Andreassi

City University of New York/Baruch College, USA



Review of the Fourth Edition:

"I found this book enjoyable to read. There was a good logical progression from one topic to the next. It is very comprehensive, extensively documenting positive, negative or controversial findings by many measures of mental processes ranging from attention, concentration, memory, perception, sensation, intelligence, affect, language, and cognition to sleep." - *The Canadian Journal of Neurological Sciences*

As new technology fuels the rapid growth of research in psychophysiology, it is essential that those new to the field receive a comprehensive introduction. *Psychophysiology: Human Behavior and Physiological Response* provides students with elementary information regarding the anatomy and physiology of various body systems, recording techniques, integrative reviews of literature, and concepts in the field. Highly accessible, this book fills a gap between edited handbooks that are often difficult for beginners, and journal articles that may also be a challenge to digest.

In the fifth edition, John L. Andreassi incorporates:

- A glossary of terms at the end of each chapter to help students learn definitions of novel terms introduced throughout the book
- A new chapter focusing on the proliferation of neuroimaging studies, including positron emission tomography (PET) and functional magnetic resonance imaging (fMRI)
- Content changes in all chapters to cover new areas of research, as well as to update findings in traditional topics of interest.

Upper level undergraduate and beginning graduate students in psychophysiology, biological psychology, cognitive neuroscience, and physiological psychology will benefit immensely from this important text, just as professionals new to psychophysiology will find this book exceptionally useful in their work.

CONTENTS

Preface. 1. Introduction to Psychophysiology. 2. Concepts in Psychophysiology. 3. The Nervous System and Measurement of Its Activity. 4. The EEG and Behavior I: Motor and Mental Activities. 5. The EEG and Behavior II: Sensation, Attention, Perception, Conditioning, and Sleep. 6. Event-Related Brain Potentials and Behavior I: Measurement, Motor Activity, Hemispheric Asymmetries, and Sleep. 7. Event-Related Potentials and Behavior II: Mental, Sensory, Attentional, and Perceptual Activities. 8. Event-Related Slow Brain Potentials and Behavior. 9. Neuroimaging,

Neuromagnetism, and Behavior. 10. Muscle Activity and Behavior. 11. Electrodermal Activity (EDA) and Behavior. 12. Pupillary Response and Behavior. 13. Eye Movements, Eye Blinks, and Behavior. 14. Heart Activity and Behavior I: Developmental Factors, Motor and Mental Activities, Perception, Attention, and Orienting Responses. 15. Heart Activity and Behavior II: Stress, Emotions, Motivation, Personality, Social Factors, Brain Interactions, and Conditioning. 16. Blood Pressure, Blood Volume, and Behavior. 17. Applied Psychophysiology I: Detection of Deception, Vigilance, Job Design, and Workload. 18. Applied Psychophysiology II: Auditory and Visual System Tests, Nervous System Disorders, Clinical Neurology, and Behavior Disorders. 19. Applied Psychophysiology III: Biofeedback and Psychoneuroimmunology. 20. Environmental Psychophysiology. Appendix: Laboratory Safety.

September 2006: 7x10: 568pp

Hb: 978-0-8058-4950-9 ISBN10: 0-8058-4950-5: \$120.00

Pb: 978-0-8058-4951-6 ISBN10: 0-8058-4951-3: \$55.00

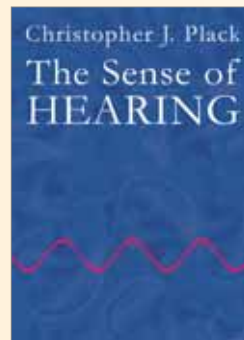
Available as an examination copy

Textbook!

The Sense of Hearing

Christopher J. Plack

Lancaster University, UK



The Sense of Hearing is a truly accessible introduction to auditory perception that is intended for students approaching the subject for the first time, and as a foundation for more advanced study. In clear and authoritative prose, the fundamental aspects of hearing are addressed. The reader is introduced to the nature of sound and the spectrum, and the anatomy and physiology of the auditory system. Basic auditory

processes including frequency selectivity, loudness and pitch perception, temporal resolution, and sound localization are explained. The reader is led to an understanding of the remarkable abilities of the auditory system in a systematic and coherent way. In the final chapters, it is shown how complex processes, such as perceptual organization and speech perception, are dependent on the initial analysis that occurs when sounds enter the ear.

The text benefits from 139 original illustrations, including uncluttered diagrams that illuminate auditory mechanisms. An extensive glossary provides definitions of technical terms. The emphasis is on explanation and clarity of style throughout, and the book will be an essential resource for students and educators involved in this sometimes challenging field.

CONTENTS

Preface. Introduction. 1. The Nature of Sound. 2. Production, Propagation, and Processing. 3. A Journey Through the Auditory System. 4. Frequency Selectivity. 5. Loudness and Intensity Coding. 6. Pitch and Periodicity Coding. 7. Hearing Over Time. 8. Spatial Hearing. 9. The Auditory Scene. 10. Speech. Concluding Remarks.

May 2005: 6x9: 288pp

Hb: 978-0-8058-4883-0 ISBN10: 0-8058-4883-5: \$89.95

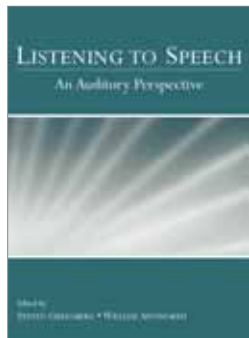
Pb: 978-0-8058-4884-7 ISBN10: 0-8058-4884-3: \$36.00

Available as an examination copy

Listening to Speech

An Auditory Perspective

Steven Greenberg, The Speech Institute, USA
William Ainsworth (deceased), Keele University, UK (Eds.)



"The chapters in Listening to Speech provide a compelling case for the importance of audition in shaping the speech signal. The book will be of interest to professionals such as scientists, engineers and clinicians, as well as graduate students whose work and studies pertain to any aspect of spoken language or hearing science."
- SirReadaLot.org

The human species is largely defined by its use of spoken

language, so integral is speech communication to behavior and social interaction. Despite its importance in everyday life, comparatively little is known about the auditory mechanisms that underlie the ability to understand language. The current volume examines the perception and processing of speech from the perspective of the hearing system. The chapters in this book describe a comprehensive set of approaches to the scientific study of speech and hearing, ranging from anatomy and physiology, to psychophysics and perception, and computational modeling. The auditory basis of speech is examined within a biological and an evolutionary context, and its relevance to applied domains such as communication disorders and speech technology discussed in detail. This volume will be of interest to scientists, engineers, and clinicians whose professional work pertains to any aspect of spoken language or hearing science.

CONTENTS

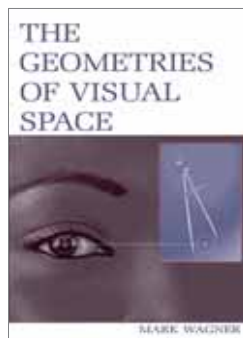
S. Greenberg, Preface. **Part I: Introduction.** W. Ainsworth, S. Greenberg, Auditory Processing of Speech. **Part II: Acoustic and Perceptual Cues Germane to the Perception of Speech.** A. van Wieringen, L. Pols, Perception of Highly Dynamic Properties in Speech. R. Drullman, The Significance of Temporal Modulation Frequencies for Speech Intelligibility. D. Kewley-Port, A. Neel, Perception of Dynamic Properties of Speech: Peripheral and Central Processes. **Part III: Anatomical and Physiological Bases of Speech Perception.** C.M. Hackney, From Cochlea to Cortex: A Simple Anatomical Description. J.C. Adams, Neuroanatomical Considerations of Speech Processing. E. Budinger, P. Heil, Anatomy of the Auditory Cortex. M.B. Sachs, B.J. May, G.S. Le Prell, R.D. Hienz, Adequacy of Auditory-Nerve Rate Representations of Vowels: Comparison With Behavioral Measures in Cat. C.E. Schreiner, S.W. Wong, H.R. Dinse, Temporal Processing in Cat Primary Auditory Cortex: Dynamic Frequency Tuning and Spectro-Temporal Representation of Speech Sounds. G. Meyer, Anatomical and Physiological Bases of Speech Perception. **Part IV: Neuroethological Parallels to Speech Processing.** N. Suga, Basic Acoustic Patterns and Neural Mechanisms Shared by Humans and Animals for Auditory Perception. C.H. Brown, J.M. Sinnott, Cross-Species Comparisons of Vocal Perception. K.R. Kluender, A.J. Lotto, L.L. Holt, Contributions of Nonhuman Animal Models to Understanding Human Speech Perception. **Part V: Robustness of Spoken Language in Adverse Acoustic Environments and**

Its Utility for Speech Recognition. A.O. Summerfield, J.F. Culling, P.F. Assmann, The Perception of Speech Under Adverse Conditions: Contributions of Spectro-Temporal Peaks, Periodicity, and Interaural Timing to Perceptual Robustness. L. Deng, H. Sheikhzadeh, Use of Temporal Codes Computed from a Cochlear Model for Speech Recognition. R.D. Patterson, T.R. Anderson, K. Francis, Binaural Auditory Images for Noise-Resistant Speech Recognition. **Part VI: Speech Perception by the Hearing and Language Impaired.** B.C.J. Moore, Factors Affecting Speech Intelligibility for People With Cochlear Hearing Loss. R.V. Shannon, Q.-J. Fu, F.-G. Zeng, J. Wygonski, Prosthetic Hearing: Implications for Pattern Recognition in Speech. B.A. Wright, Perceptual Learning of Temporally Based Auditory Skills Thought to be Deficient in Children With Specific Language Impairment. A. Faulkner, S. Rosen, Speech Perception and Auditory Impairment: The Roles of Temporal and Spectral Information. **Part VII: Auditory Scene Analysis and the Perceptual Organization of Speech.** R.M. Warren, The Relation of Speech Perception to the Perception of Nonverbal Auditory Patterns. N.P.M. Todd, C.S. Lee, D.J. O'Boyle, A Sensorimotor Theory of Speech Perception: Implications for Learning, Organization, and Recognition. G.J. Brown, D. Wang, Timing Is of the Essence: Neural Oscillator Models of Auditory Grouping in Speech. D. Ellis, Modeling the Auditory Component of Speech. **Part VIII: Conclusion.** S. Greenberg, A Multi-Tier Framework for Understanding Spoken Language.

March 2006: 7x10: 472pp
Hb: 978-0-8058-4539-6 ISBN10: 0-8058-4539-9: \$125.00

The Geometries of Visual Space

Mark Wagner
Wagner College, USA



"In his fine book... Wagner's goal is to show how the 'literature of spatial experience paints a rich, multidimensional picture that dynamically changes as a function of contextual variables'. In this he very largely succeeds. Wagner expresses the hope that his book would not be only for scholars but would 'also make for a good graduate level textbook on space perception'... Any graduate student who is serious about

understanding the foundations of psychology should try to read at least the first four chapters of this book." -

PsycCRITIQUES

When most people think of space, they think of physical space. However, visual space concerns space as consciously experienced, and it is studied through subjective measures, such as asking people to use numbers to estimate perceived distances, areas, angles, or volumes. This book explores the mismatch between perception and physical reality, and describes the many factors that influence the perception of space including the meaning assigned to geometric concepts like distance, the judgment methods used to report the experience, the presence or absence of cues to depth, and the orientation of a stimulus with respect to point of view. The main theme of the text is that no single geometry describes visual

space, but that the geometry of visual space depends upon the stimulus conditions and mental shifts in the subjective meaning of size and distance.

While this book is primarily intended for scholars in perception, mathematical psychology, and psychophysics, it will also be accessible to a wider audience since it is written at a readable level. It will make a good graduate-level textbook on space perception.

CONTENTS

Preface. Introduction: Contrasting Visual, Experiential, and Physical Space. 1. Traditional Views of Geometry and Vision. 2. Synthetic Approaches to Visual Space Perception. 3. An Analytic Approach to Space and Vision. 4. Effects of Context on Judgments of Distance, Area, Volume, and Angle. 5. Factors Affecting Size Constancy. 6. The Metrics of Visual Space: Multidimensional Approaches to Space Perception. 7. Cognitive Maps, Memory, and Space Perception. 8. The Geometries of Visual Space: Conclusion.

January 2006: 6x9: 280pp

Hb: 978-0-8058-5252-3 ISBN10: 0-8058-5252-2: \$90.00

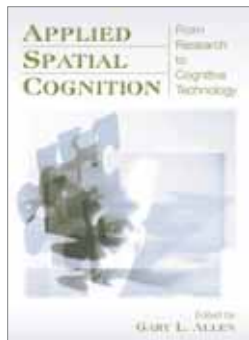
Pb: 978-0-8058-5253-0 ISBN10: 0-8058-5253-0: \$34.95

Applied Spatial Cognition

From Research to Cognitive Technology

Gary L. Allen

University of South Carolina, USA (Ed.)



Applied Spatial Cognition illustrates the vital link between research and application in spatial cognition. With an impressive vista ranging from applied research to applications of cognitive technology, this volume presents the work of individuals from a wide range of disciplines and research areas, including psychologists, geographers, information scientists, computer scientists, cognitive scientists,

engineers, and architects.

Chapters throughout the book are a testimony to the importance of basic and applied research regarding human spatial cognition and behavior in the many facets of daily life. The contents are arranged into three sections, the first of which deals with a variety of spatial problems in real-world settings. The second section focuses on spatial cognition in specific populations. The final part is concerned principally with applications of spatial cognitive research and the development of cognitive technology.

Relevant to a number of remarkably diverse groups, *Applied Spatial Cognition* will be of considerable interest to researchers and professionals in industrial/organizational psychology, human factors research, and cognitive science.

CONTENTS

Preface. **Part I: Influencing Spatial Activity in Real-World and Electronic Environments.** T. Gärling, P. Loukopoulos, Choice of Driving Related to Cognitive Distance. M. Denis, P-E. Michon, A. Tom, Assisting Pedestrian Wayfinding in Urban Settings: Why References to Landmarks are Crucial in Direction-Giving. B. Tversky, M. Agrawala, J. Heiser, P. Lee, P. Hanrahan, D. Phan, C.

Stolte, M-P. Daniel, Cognitive Design Principles for Automated Generation of Visualizations. S. Bertel, G. Vrachliotis, C. Freksa, Aspect-Oriented Building Design: Towards Computer-Aided Approaches to Solving Spatial Constraint Problems in Architecture. S. Hirtle, M. Sorrows, Navigation in Electronic Environments. **Part II: Assisting Wayfinding, Orientation, and Mobility in Specific Populations.** N. Foreman, Spatial Cognition and Its Facilitation in Special Populations. J.M. Loomis, R.G. Golledge, R.L. Klatzky, J.R. Marston, Assisting Wayfinding in Visually Impaired Travelers. J.A. Thomson, Negotiating the Urban Traffic Environment: Pedestrian Skill Development in Young Children. **Part III: Training or Facilitating Skilled Performance.** J.J. Staszewski, Spatial Thinking and the Design of Landmine Detection Training. C.D. Heth, E.H. Cornell, A Geographic Information System for Managing Search for Lost Persons. M. Hegarty, M. Keehner, C. Cohen, D.R. Montello, Y. Lippa, The Role of Spatial Cognition in Medicine: Applications for Selecting and Training Professionals. S. Guerlain, Software Navigation Design. J.N. Templeman, L.E. Sibert, Immersive Simulation of Coordinated Motion in Virtual Environments: An Application to Training Small Unit Military Tactics, Techniques, and Procedures.

September 2006: 6x9: 416pp

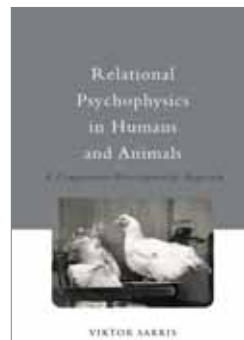
Hb: 978-0-8058-5299-8 ISBN10: 0-8058-5299-9: \$75.00

Relational Psychophysics in Humans and Animals

A Comparative-Developmental Approach

Viktor Sarris

J.W. Goethe University, Frankfurt, Germany



"Sarris has introduced some much - needed structure into the field of relational psychophysics. Particularly compelling is the use of the comparative, developmental, and evolutionary perspectives to enrich our ideas about context effects in human psychophysics. But Sarris doesn't stop there. He integrates ideas from philosophy, systems theory, physics, biology, and others, all in the context of laboratory work which illustrates

fundamental ideas of how most living creatures perceive sensory stimuli in relation to each other and to their environmental setting." - Lawrence Ward, University of British Columbia

Relational Psychophysics in Humans and Animals offers a comprehensive and integrated overview of the often fragmented field of psychophysics. It introduces key concepts in psychophysics and clearly summarises and illustrates the central issues through telling examples. It combines empirical research and theoretical approaches from general psychophysics, animal psychophysics and human-infant psychophysics, to create a systematic comparison of these three key areas.

Throughout, Viktor Sarris makes a strong case for more comparative psychophysical research across different species and across different stages of development. He presents original research and examines frame-of-reference models, behavioural psychophysics, developmental

psychophysics, perceptual-cognitive psychophysics and evolutionary perspectives, to create an integrated framework for the direction of new research.

The book will be an invaluable aid for researchers in the fields of perception and psychophysics.

CONTENTS

Preface. Introduction: Purpose and Scope. 1. Relational Perception and Epistemology. 2. Frame-of-reference Models in Psychophysics. 3. Behavioural Psychophysics: Contrasting Ideas and Findings. 4. Developmental Psychophysics. New Perspectives in Perceptual-cognitive Psychophysics. 5. General Discussion and Conclusions. References. Appendix 1: Apparatus for Animal Psychophysics. Appendix 2: Mathematics of Transposition and Psychophysics. Appendix 3: An Engine Model of Relational Psychophysics.

May 2006: 6x9: 176pp
Hb: 978-1-84169-569-3 ISBN10: 1-84169-569-6: \$75.00

30% discount in 2007! \$52.50
Visit www.psypress.com/specialoffers

Measurement and Representation of Sensations

Hans Colonius, Oldenburg University, Germany
Ehtibar N. Dzhafarov, Purdue University, USA (Eds.)
Scientific Psychology Series



Measurement and Representation of Sensations offers a glimpse into the most sophisticated current mathematical approaches to psychophysical problems. In this book, editors Hans Colonius and Ehtibar N. Dzhafarov, top scholars in the field, present a broad spectrum of innovative approaches and techniques to classical problems in psychophysics at different levels of stimulus complexity. The chapters

emphasize rigorous mathematical constructions to define psychophysical concepts and relate them to observable phenomena. The techniques presented, both deterministic and probabilistic, are all original and recent.

Subjects addressed throughout the six chapters of this volume include:

- Computing subjective distances from discriminability
- A new psychophysical theory of intensity judgments
- Computing subjective distances from two discriminability functions
- An alternative to the model-building approach based on observable probabilities
- Possible forms of perceptual separability developed within a generalization of General Recognition Theory.

Measurement and Representation of Sensations is a valuable text for both behavioral scientists and applied mathematicians.

CONTENTS

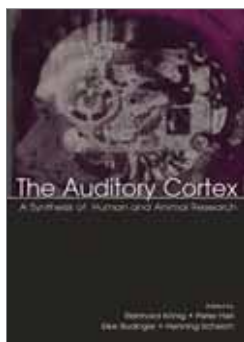
A.A.J. Marley, Foreword. E.N. Dzhafarov, H. Colonius, Regular Minimality: A Fundamental Law of Discrimination. E.N. Dzhafarov, H. Colonius, Reconstructing Distances Among Objects From Their Discriminability. R.D. Luce, R. Steingrimsson, Global Psychophysical Judgments of Intensity: Summary of a Theory and Experiments. J. Zhang, Referential Duality and Representational Duality in the Scaling of Multidimensional and Infinite-Dimensional Stimulus Space. J.D. Balakrishnan, Objective Analysis of Classification Behavior: Applications to Scaling. J.T. Townsend, J. Aisbett, J. Busemeyer, A. Assadi, General Recognition Theory and Methodology for Dimensional Independence on Simple Cognitive Manifolds.

February 2006: 6x9: 256pp
Hb: 978-0-8058-5353-7 ISBN10: 0-8058-5353-7: \$75.00

The Auditory Cortex

A Synthesis of Human and Animal Research

Reinhard König, Peter Heil, Henning Scheich, Eike Budinger, Leibniz Institute for Neurobiology, Germany (Eds.)



"The Auditory Cortex: A Synthesis of Human and Animal Research is a remarkable meeting of (no less than 70) experts concerned with how the brain processes sounds... Provides novel ideas on the place of the auditory cortex in a bigger scheme of cortical and perceptual processing. A plethora of contemporary questions is present throughout the text... The Auditory Cortex may be most useful to graduate students and investigators

with a fair awareness of issues in the field of auditory research, but it also is appropriate as an up-to-date reference text on the auditory cortex." - **PsycCRITIQUES**

"A really in-depth presentation, by worldwide experts in this domain, about what is known (and unknown) on the topic. Many important questions are addressed... many interesting issues are raised." - **Journal of Deaf Studies and Deaf Education**

Understanding human hearing is not only a scientific challenge but also a problem of growing social and political importance, given the steadily increasing numbers of people with hearing deficits or even deafness. This book is about the highest level of hearing in humans and other mammals. It brings together studies of both humans and animals thereby giving a more profound understanding of the concepts, approaches, techniques, and knowledge of the auditory cortex. All of the most up-to-date procedures of non-invasive imaging are employed in the research that is described.

CONTENTS

Preface. **Part I: Auditory Cortical Fields and Their Functions.** E. Budinger, Introduction: Auditory Cortical Fields and Their Functions. J.H. Kaas, T.A. Hackett, Subdivisions and Connections of the Auditory Cortex in Primates: A Working Model. P. Morosan, J. Rademacher, N. Palomero-Gallagher, K. Zilles, Anatomical Organization of the Human Auditory Cortex: Cytoarchitecture and

Transmitter Receptors. *D.A. Hall*, Sensitivity to Spectral and Temporal Properties of Sound in Human Non-Primary Auditory Cortex. *S. Clarke, M. Adriani, E. Tardif*, "What" and "Where" in Human Audition: Evidence From Anatomical, Activation, and Lesion Studies. *K. Imaizumi, C.C. Lee, J.F. Linden, J.A. Winer, C.E. Schreiner*, The Anterior Field of Auditory Cortex: Neurophysiological and Neuroanatomical Organization. *H.E. Heffner*, The Neurobehavioral Study of Auditory Cortex. *M. Brosch, H. Scheich*, Non-Acoustic Influence on Neural Activity in Auditory Cortex. *J.F. Brugge, I.O. Volkov, R.A. Reale, P.C. Garell, H. Kawasaki, H. Oya, Q. Li, M.A. Howard III*, The Posterolateral Superior Temporal Auditory Field in Humans: Functional Organization and Connectivity. *P. Belin, R.J. Zatorre*, Voice Processing in Human Auditory Cortex. *H. Ackermann, I. Hertrich, W. Lutzenberger, K. Mathiak*, Cerebral Organization of Speech Sound Perception: Hemispheric Lateralization Effects at the Level of the Supratemporal Plane, the Inferior Dorsolateral Frontal Lobe and the Cerebellum. **Part II: Coding of Sounds.** *M. Brosch*, Introduction: Coding of Sounds. *P. Heil, H. Neubauer*, Toward a Unifying Basis of Auditory Thresholds. *J.C. Middlebrooks, S. Furukawa, G.C. Stecker, B.J. Mickey*, Distributed Representation of Sound-Source Location in the Auditory Cortex. *B. Wible, T. Nicol, N. Kraus*, Encoding of Complex Sounds in an Animal Model: Implications for Understanding Speech Perception in Humans. *J.J. Eggermont*, Correlated Neural Activity: Epiphenomenon or Part of the Neural Code? *A.E.P. Villa*, Spatio-Temporal Patterns of Spike Occurrences in Freely-Moving Rats Associated to Perception of Human Vowels. *E. Ahissar, M. Ahissar*, Processing of the Temporal Envelope of Speech. *I. Taniguchi, S. Sugimoto, A. Hess, J. Horikawa, Y. Hosokawa, H. Scheich*, Spatio-Temporal Patterns of Responses to Pure Tones and Frequency Modulated Sounds in the Guinea Pig Auditory Cortex. *I. Nelken, L. Las, N. Ulanovsky, D. Farkas*, Levels of Auditory Processing: The Subcortical Auditory System, Primary Auditory Cortex, and the Hard Problems of Auditory Perception. *S.J. Eliades, X. Wang*, Dynamics of Vocalization-Induced Sensory-Motor Interactions in the Primate Auditory Cortex. **Part III: Plasticity, Learning, and Cognition.** *R. König*, Introduction: Plasticity, Learning, and Cognition. *J.-M. Edeline*, Learning-Induced Plasticity in the Thalamo-Cortical Auditory System: Should We Move From Rate Code to Temporal Code Descriptions? *H. Scheich, F.W. Ohl, H. Schulze, A. Hess, A. Brechmann*, What is Reflected in Auditory Cortex Activity: Properties of Sound Stimuli or What the Brain Does With Them? *D. Irvine, M. Brown, R. Martin, V. Park*, Auditory Perceptual Learning and Cortical Plasticity. *F.W. Ohl, H. Scheich, W.J. Freeman*, Neurodynamics in Auditory Cortex During Category Learning. *J. Fritz, M. Elhilali, S. Shamma*, Task-Dependent Adaptive Plasticity of Receptive Fields in Primary Auditory Cortex of the Ferret. *J. Rüsseler, W. Nager, J. Möbes, T.F. Münte*, Cognitive Adaptations and Neuroplasticity: Lessons From Event-Related Brain Potentials.

April 2005: 6x9: 512pp
Hb: 978-0-8058-4938-7
ISBN10: 0-8058-4938-6: \$99.95

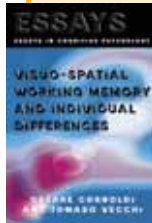


ALSO OF INTEREST

Textbook!

Visual Perception

Physiology, Psychology and Ecology, 4th Edition
Vicki Bruce, University of Edinburgh UK; Mark A. Georgeson, Aston University, Birmingham, UK; Patrick R. Green, Heriot Watt University, Edinburgh, UK
2003: 6¼x9¼: 496pp
Pb: 978-1-84169-238-8 ISBN10: 1-84169-238-7: \$41.95
Available as an examination copy



Visuo-spatial Working Memory and Individual Differences

Cesare Cornoldi, University of Padova, Italy & Tomaso Vecchi, University of Pavia, Italy
Series: *Essays in Cognitive Psychology*
2003: 6x9: 184pp
Hb: 978-1-84169-216-6 ISBN10: 1-84169-216-6: \$52.95
www.psypress.com/essays/cognitive



Theories of Visual Perception

Ian E. Gordon, University of Exeter, UK
2004: 6x9: 288pp
Hb: 978-1-84169-383-5 ISBN10: 1-84169-383-9: \$70.00

50% discount in 2007! \$35.00
Visit www.psypress.com/specialoffers



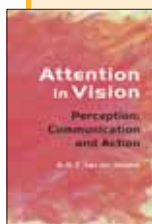
Touch and Blindness

Psychology and Neuroscience
Morton A. Heller, Eastern Illinois University, USA & Soledad Ballesteros, National University of Distance Education, Spain (Eds.)
2005: 6x9: 392pp
Hb: 978-0-8058-4725-3 ISBN10: 0-8058-4725-1: \$80.00
Pb: 978-0-8058-4726-0 ISBN10: 0-8058-4726-X: \$34.95



Detection Theory

A User's Guide, 2nd Edition
Neil A. Macmillan, University of Massachusetts Amherst, USA & C. Douglas Creelman, University of Toronto, Canada
2004: 6x9: 512pp
Hb: 978-0-8058-4230-2 ISBN10: 0-8058-4230-6: \$125.00
Pb: 978-0-8058-4231-9 ISBN10: 0-8058-4231-4: \$65.00



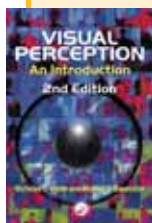
Attention in Vision

Perception, Communication and Action
A.H.C. van der Heijden, Leiden University, The Netherlands
2004: 6x9: 392pp
Hb: 978-1-84169-348-4 ISBN10: 1-84169-348-0: \$90.00

Textbook!

Visual Perception

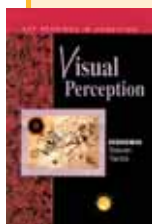
An Introduction
2nd Edition
Nicholas J. Wade, University of Dundee, UK & Michael T. Swanston, University of Abertay, UK
2001: 6x9: 294pp
Hb: 978-1-84169-203-6 ISBN10: 1-84169-203-4: \$69.95
Pb: 978-1-84169-204-3 ISBN10: 1-84169-204-2: \$29.95
Available as an examination copy

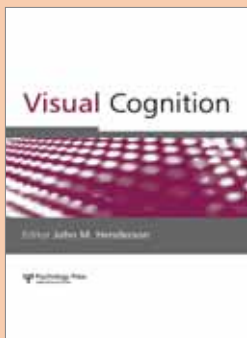


Textbook!

Visual Perception

Key Readings
Steven Yantis, Johns Hopkins University, USA (Ed.)
Series: *Key Readings in Cognition*
2000: 7x10: 432pp
Hb: 978-0-86377-597-0 ISBN10: 0-86377-597-7: \$90.95
Pb: 978-0-86377-598-7 ISBN10: 0-86377-598-5: \$44.95
Available as an examination copy
www.keyreadings.com/cognition





Visual Cognition

Editor:
John M. Henderson, University of
 Edinburgh, UK

Associate Editors:
Charles L. Folk, Villanova University,
 USA
Alan Kingstone, University of British
 Columbia, Canada
Philippe G. Schyns, University of
 Glasgow, UK

Visual Cognition publishes new empirical research that increases theoretical understanding of human visual cognition. Studies may be concerned with any aspect of visual cognition such as perceptual organization; object, face, and scene recognition; visual attention and search; short-term and long-term visual memory; visual word recognition and reading; eye movement control and active vision; dynamic vision; and visual imagery. The typical study will use behavioral methods, but papers reporting studies of alternative populations or based on methods such as neuroimaging (e.g., fMRI, ERP, MEG) or modeling (computational or mathematical) that bear on visual cognition are also published.

Articles take two forms. Full Articles typically involve multiple experiments and a relatively in-depth discussion of the theoretical implications of the work. There are no length restrictions though authors should strive for brevity. Brief Articles report new and unexpected empirical findings of broad interest and will be favored for novelty of approach or method. Manuscripts submitted as Brief Articles will receive a simple accept or reject disposition in the shortest possible time, and when accepted will receive priority for publication. Brief Articles have a maximum of 3,000 words including abstract, notes, captions, and appendices, but excluding bibliography. The bibliography for a Brief Article should not exceed 30 references, and figures and tables should be used sparingly. A word count should be included on the title page.

Manuscript Submission

Please email your paper as an attachment to:
reviews@psypress.co.uk

Your covering email must include full contact details, the title of the journal to which you are submitting, and the title of your article. You should also confirm that the manuscript is not currently under consideration for publication elsewhere. For queries regarding your submission, call +44 (0)20 7017 7730 or email the address above. Find full instructions for authors at the journal's website below.

Special Issues

Issues devoted to a single topic are sometimes published in this journal; these are sent free to subscribers, and are also available to purchase separately as books for non-subscribers, either via the journal's website below, or using the book order form in this brochure.

Visual Search and Attention

Hermann Müller & Joseph Kruminacher, Ludwig Maximilian University, Munich, Germany (Eds.)
2006: 6x9: 664pp
Hb: 978-1-84169-806-9 ISBN10: 1-84169-806-7: \$170.00

Age of Acquisition Effects in Word and Object Processing

Chris Barry & Robert A. Johnston, University of Kent at Canterbury, UK (Eds.)
2006: 6x9: 276pp
Hb: 978-1-84169-804-5 ISBN10: 1-84169-804-0: \$90.00

Real World Scene Perception

John M. Henderson, Michigan State University, USA (Ed.)
2005: 6x9: 416pp
Hb: 978-1-84169-993-6 ISBN10: 1-84169-993-4: \$105.00

Visual Social Cognition

Elaine Fox, University of Essex, UK (Ed.)
2005: 6x9: 272pp
Hb: 978-1-84169-982-0 ISBN10: 1-84169-982-9: \$99.00

Publication Details

Impact Factor: 1.733
(Journal Citation Reports® 2007, published by Thomson Scientific)
 8 issues per year
 Print ISSN: 1350-6285 / Online ISSN: 1464-0716
Volume 15 (2007) Subscription Rates
 Institutional (print and online): \$698
 Institutional (online only): \$663
 Personal (print only): \$301
Volume 16 (2008) Subscription Rates
13% more pages in 2008!
 Institutional (print and online): \$834 / €667
 Institutional (online only): \$792 / €633
 Personal (print only): \$359 / €287

Special Rates

If you are a member of one of the following academic societies, you are entitled to a reduction on the Individual Rate of this journal: APA, APS, CS, EPS, ESCoP. Email journals@psypress.com for details.

Find out more about this journal, or subscribe, at

www.psypress.com/viscog

BOOK ORDER FORM: Customers in the US, Canada and Latin America

Qty	Author	Title	ISBN
Qty	Author	Title	ISBN
Qty	Author	Title	ISBN

Books in this catalog are available through your bookseller or by ordering direct. Please attach a list if you prefer.
 Institutions: Please attach your institutional purchase order to this form.
 We request that all US and Canadian individual orders be prepaid by check, money order (in US dollars), or credit card;
 Latin American individual orders be prepaid by money order or credit card only.

Subtotal \$
Tax \$
Shipping/Handling \$
Total \$

Name

Address

City, State/Province & Zip Code

Telephone Email

Please invoice me. I have included my check (US and Canada only) or money order for the full amount due in US dollars, made out to Taylor & Francis.

I authorize you to debit my credit card with the amount of \$

My Visa/Mastercard/American Express number is Expiry Date / Start Date (Visa) /

Signature Date

Credit Card Address (if different from above)

Please check this box if you do not want to join the Psychology Press mailing list. Please check here if you do not wish to receive special offers and updates by email.

All prices and page counts are subject to change without notice. Offer good in the US, Latin America, and Canada only. All orders must be pre-paid. Shipping and handling: US & Canada: \$4.00 for the first book; \$1.00 for each additional book. Latin America: Airmail \$10 first book; \$3 each additional book; Surface \$6 first book; \$2 each additional book. Residents of CA, CT, KY, NY, and PA please add local sales tax. Canadian residents please add 7% GST.

To order in the US, Canada & Latin America, contact: Routledge,
 7625 Empire Drive, Florence, KY 41042, USA
 Call Toll Free: 1-800-634-7064, Mon-Fri, 8am-5.30pm, EST
 Fax Toll Free: 1-800-248-4724 anytime Email: orders@taylorandfrancis.com
 Call international: (561) 361- 6000, ext 6418 Fax international: (561) 261- 6075

Bookstores: Latin America (wholesalers, bookstores and libraries) Ethan
 E. Atkin, tel. +1 802-223-6565. Email: eatkin@cranburyinternational.com
 US: Contact your usual supplier. Canada: Login Canada,
 Call Toll Free 800-665-1148 Email: sales@ib.ca S&P07

S&P07

EXAMINATION COPY REQUEST FORM

Author	Title	ISBN
Author	Title	ISBN

Professor's Name

Faculty University

Address & City

State/Province & Zip Code Email

Telephone Fax

Course Name and Number Course Start Date Expected Annual Enrollment

We offer complimentary and/or 60-day examination copies on selected titles to academics. 60-day examination copies will be accompanied by an invoice which requires payment in 60 days from the date on the invoice. If you adopt 10 or more copies of the title for your course, the examination copy is yours for free. Return the invoice with course information and the purchase order number provided by your bookstore. If you wish to keep the book, but do not wish to adopt it, please pay the amount shown on the invoice, or return the book to us and the invoice will be cancelled. To order an examination copy, please mail or fax this form or request on department letterhead and include the following information: professor's name, course name and number, expected enrollment, decision date, and the reference number at the top of this form. Please allow up to four weeks for delivery. **Please fax to 212 563 2269** or call **917 351 7160**, Mon-Fri, 8am-5.30pm, EST, or **mail: Kevin Williams, Taylor & Francis Group, Inc., Associate Marketing Manager, Psychology Press, 270 Madison Avenue, New York, NY 10016, USA. Email: julie.norton@informa.com.** Examination copies are sent at the publisher's discretion.

an informa business