

Foundations Of Sensation And Perception

George Mather

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Sensation and Perception in the History of Experimental Psychology
Information, Sensation, and Perception
Introduction to Sensation/perception
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Fundamentals of Sensory Perception
Explorations in Sensation and Perception
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Explorations in Sensation and Perception
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this book combines sensation and perception with all biological sensory aspects of perception with all biological sensory aspects of perception covered from an evolutionary point of view it raises the key question how do the senses gather and secure information about the outside world this basic question is addressed by explaining how the physical world interacts with and stimulates the senses and in turn how the sense and the nervous system transform integrate and process the

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the highly accessible sensation and perception presents a current and accurate account of modern sensation and perception from both a cognitive and neurocognitive perspective to show students the relevance of the material to their everyday lives and future careers authors bennett l schwartz and john h krantz connect concepts to real world applications such as driving cars playing sports and evaluating risk in the military interactive sensation laboratory exercises isle provide simulations of experiments and neurological processes to engage readers with the phenomena covered in the text and give them a deeper understanding of key concepts the second edition includes a revamped version of the in depth feature from the previous edition in new exploration sections that invite readers to learn more about exciting developments in the field additionally new ponder further sections prompt students to practice their critical thinking skills with chapter topics

bruce goldstein s sensation and perception the best seller which has helped over 150 000 students understand the ties between how we sense the world and how the body interprets these senses is now in a brilliant full color seventh edition a key strength of this text has always been the ability to show the student what they are learning through examples and visuals now the book takes this visual learning one step further by using color throughout as a learning tool as the sole author of the text goldstein s singular voice combines with his extensive classroom experience and most innovative research to create a visual text unparalleled in the field the text walks the student through an intriguing journey of the senses with a mixture of clarity and thoroughness the accompanying virtual lab media exercises available both on cd rom within the perception psychologynowtm student tutorial platform and in the online webtutortm advantage product offer a wide array of animations and examples designed to stimulate understanding of difficult concepts every chapter has been updated for currency and readability and a new chapter six on visual attention rounds off this timely revision

examines how the human brain receives processes and comprehends information through the five senses

sensation and perception covers in detail the perceptual processes related to vision and hearing taste and smell touch and pain as well as the vestibular and proprioceptive systems individual chapters cover separate topics including the fast developing areas of perception of emotions and attractiveness and recognition of faces plus newer topics not seen regularly in other textbooks for example changes in perception throughout the lifespan and pathologies of perception key features chapters begin

with summaries of key topics and questions to aid learning includes key points spotlights on research and thinking about research sections designed to encourage students to design their own studies chapters close with test yourself questions a review of key terms and annotated further readings a companion website offers additional resources for lecturers and students available on publication at sagepub.co.uk/harris

one of the primary aims of this book is to show that nearly all of the empirical laws of sensory science discovered by laboratory measurement during the past 130 years can be derived theoretically from one fundamental equation the other primary aim of the book is to demonstrate the philosophical origins of this single equation and to show how it must change the way in which we view the nervous system and the process of perception this fundamental equation and the philosophy of perception which it embodies comprise what norwich and his colleagues term as the entropy theory of perception

first published in 1961 sensation and perception aims to cast light upon the nature of perception itself this the author believes can be achieved only through an understanding of the concepts of sensation and perception a survey of the principal attempts to arrive at such an understanding brings out the fact that perception has most often been assimilated to sensation or judgment the author believes that both of these views are wrong but that an attention to the history of thought can provide an explanation of the temptation to accept them a final chapter gives the author's own views on the nature of sensation and perception as such it would be of interest both to philosophers and to those psychologists who are concerned with the nature of perception

a revised and updated edition of the well received text on sensation and perception features an integrated treatment of the main principles of sensation and perception within a bio behavioral context stressing specialized anatomy physiological mechanisms and functional behavior with adaptive consequences the main theories principles and basic findings of the psychophysiology of sensation and perception are given a balanced overview contains many helpful pedagogical aids including chapter previews study questions key terms demonstrations and references

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

sensation and perception fifth edition maintains the standard of clarity and coverage set in earlier editions which make the technical scientific information accessible to a wide range of students the authors have received national awards for their teaching and are fully responsible for the content and organization of the text as a result it features strong pedagogy abundant student friendly examples and an engaging conversational style

provides coverage of all sensory processes from neurophysiology to cognitive perception new features of this third edition include coverage of vision and hearing reorganized around systems functions and pattern perception

why does the sky look blue why does sugar taste sweet fully revised and updated this introductory full colour text is written by experts in each of the five senses who convey the excitement of the field to students providing comprehensive descriptions of the science behind vision hearing touch smell and taste

this comprehensive introduction to the senses explains how physical stimuli are transformed into signals in the nervous system and how the brain uses those signals to understand the world whereas most texts in the field begin by covering vision this trailblazing work offers students a solid grounding in the principles of perceptual measurement and the biological mechanisms that make perception possible before introducing the somatosensory and olfactory systems this innovative presentation ensures that students have a firm grasp of the basics before they approach the complexities of hearing and vision written specifically for students encountering the discipline for the first time fundamentals of sensory perception is a cutting edge introduction to sensation and perception features unique and accessible organization opening chapters explore touch and the chemical senses before moving on to auditory systems and vision this structure allows students to gradually build their knowledge

about sensation and perception before tackling more complex and challenging concepts comprehensible the language and tone throughout are suitable for introductory perception students authoritative avi chaudhuri has taught widely in both canada and the united states over the past 30 years and his vast experience in both education and research is reflected in the text making this an indispensable introduction to the field balanced coverage of classic and contemporary material the most current research references and examples have been integrated into a historical narrative that tells the story of how important concepts were discovered offering students the perfect mix of classic content and cutting edge information an abundance of figures and illustrations with 356 figures 24 tables and 130 photos this text offers the most brilliant art program currently available each figure and illustration has been carefully selected to ensure it best represents crucial subject matter extensive box program engaging boxes are integrated throughout to pique student interest and provide additional information portraits and side notes identify key figures essential theories and noteworthy topics from the history of perceptual research investigation boxes provide suggestions for fun easy to conduct experiments methodology boxes focus on specific research projects past and present that demonstrate how the principles discussed in the text can be put into practice engaging pedagogy chapter openers review questions bulleted summaries suggestions for further reading lists of key terms and a glossary give students the tools required to be successful in their studies vibrant full color design throughout brings concepts to life

this highly acclaimed book provides a theoretically balanced introduction to the study of basic physiology and sensory responses the authors survey a broad range of topics and present different theories and perspectives in controversial areas demonstrations allow the reader to experience many of the perceptual phenomena firsthand using common household items or illustrations in the book describes natural instances of perceptual phenomena to bring the subject matter to life

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with a style that is both detailed and accessible this new text from johannes zanker provides students with a solid understanding of how our sensory and perceptual systems operate and interact with a dynamic world it not only explains the scientific

mechanisms involved but discusses the costs and benefits of these mechanisms within an evolutionary functional framework to encourage important questions such as what is a given sensory mechanism needed for what kind of problem can it solve and what are its limitations how does the environment determine how senses operate how does action affect and facilitate perception this unique interdisciplinary framework allows students to see perceiving and acting as embedded in particular environments and directs them to think about the functional nature of these systems the overall effect is an especially readable authoritative text on sensation perception and action that really brings this fascinating topic to life

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