

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 stimulation copyright libri gmbh all rights reserved

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

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

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

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

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

the first edition of this comprehensive introduction to sensation and perception has been highly praised for its unique approach it allows students to thoroughly grasp the fundamental principles in relation to the relatively simple sensory systems before moving on to the more complex topics book jacket

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

this fully updated 2nd edition of 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

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

this textbook provides a comprehensive overview of the sensory processes leading to perception with an emphasis on the physiological bases for the phenomena the visual system is discussed in depth with parallels drawn in subsequent treatments of the auditory system somatosensory and pain systems gustatory system and olfactory system in each case the discussion begins with the physical stimulus progresses through anatomy and physiology and concludes with perceptual phenomenology the intent is to be scholarly but accessible engaging the undergraduate student with real life examples and demonstrations while providing a firm stepping off point for advanced students this edition includes a cd containing a computer program that provides demonstrations and simulations to explain clarify and make accessible phenomena normally confined to the laboratory

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

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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intended for courses in sensation and perception this book covers the anatomy physiology and phenomenology of the way humans sense and perceive the world it is grounded in

physiology to explain perceptual phenomena on the theory that understanding sensation and perception is based in the physiology of the sensory organs and the brain

sensation and perception focuses on those areas of psychology which deal with the acquisition processing and interpretation of information by the body's external and internal sense organs topics covered include the fundamental processes of vision modern computational theories of vision the structure and function of the auditory system including the perception of loudness pitch and timbre the skin senses the body senses the chemical senses the fundamental methods and findings of psychophysics

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

sensation and perception from cells to awareness is an anthology comprised of classic and contemporary peer reviewed journal articles related to sensation and perception with special emphasis on vision as it is well researched and the most dominant of the five senses the collection provides students with valuable instruction on how to read journal articles comprehension questions to guide them through each article and application questions to challenge their knowledge with the goal of helping students understand how science is conducted and reported sensation and perception contains full length articles rather than excerpts so students can effectively study them in full and learn from the content and structure of each article students read research pertaining to mapping cortical receptive fields statistical learning color vision action and perception the auditory system and more novel in approach and immensely valuable to students who need experience reading analyzing and applying research for various programs or professions this anthology is well suited for courses in sensation and perception visual systems and cognitive research methods

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Introduction

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