

# CONTRIBUTIONS TO SENSORY PHYSIOLOGY

*Edited by William D. Neff*

**VOLUME 1**



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# Contributions To Sensory Physiology Volume 2

**R. Nieuwenhuys, J. Voogd, C. van  
Huijzen**



## **Contributions To Sensory Physiology Volume 2:**

**Contributions to Sensory Physiology** William D. Neff, 2013-10-22 Contributions to Sensory Physiology Volume 2 presents the scientific research on the sensory systems. It discusses the physiological basis of sensation. It addresses the evolution of vertebrate hearing. Some of the topics covered in the book are the origins of neocortex, the differentiation of sensory thalamo-cortical systems in early phases of mammal evolution, the predominance of the auditory system in carnivores, effects of brain stem lesions on the normal prepotency of sound, the logarithmic intensity function of single peripheral units and sensory neocortex, and the evolution of intelligence. The organization of somatic central projections is covered. The pure convergent cortical projections are discussed. The text describes the Weber function and Fechner's conjecture. A study of the human somesthetic intensity function is presented. A chapter is devoted to the peripheral nerve responses. Another section focuses on the physical correlate theory of perception of intensity. The book can provide useful information to doctors, neurologists, students, and researchers.

**Advances in Psychological Science, Volume 2** Fergus Craik, Michele Robert, Michel Sabourin, 2014-01-21 The chapters in this volume are the edited versions of invited addresses to the XXVI International Congress of Psychology held in Montreal in August 1996. As one major goal of the Congress was to promote communication among specializations in scientific psychology, the speakers were asked to survey their research area and present their own work in a way that would be accessible to their colleagues in other areas. Another purpose of the meeting was to bring researchers together from different parts of the world, reflecting their different approaches to the scientific study of mind, brain, and behavior. Consequently, the eminent researchers who have written the twenty-six chapters included in the present volume were drawn from universities and research institutes in North America, Europe, Japan, Russia, Israel, and New Zealand. The chapters cover a range of topics in human and animal experimental psychology. The first section deals with psychobiological processes, the interplay of body and mind in determining intelligence, stress, and pain. The next five chapters address current issues in neuropsychology and neuroscience, including the neural correlates of attention and vision. A third section looks at learning processes in humans and animals, and a fourth deals with a range of topics in perception and cognition. The final five chapters take a developmental perspective, presenting theoretical and empirical analyses of the acquisition of perceptual and cognitive abilities. Overall, the collection illustrates the growing trend to break down traditional barriers between areas of experimental psychology; there are many instances of profitable interactions between researchers studying aspects of behavior and those studying the biological bases of these behaviors. The twenty-six chapters give an excellent overview of current research in scientific psychology.

**Fundamentals of Sensory Physiology** R. F. Schmidt, 2013-04-17 Since the first English edition of this book appeared three years ago, the authors have received many useful comments from readers. In preparing this amended edition, we have carefully examined each chapter, improving and expanding the text where necessary. In the process, we have been greatly helped by their remarks. Further commentary on

this edition will be much appreciated Again I should like to express the gratitude of all the authors to the staff of Springer Verlag for expediting the publication of the book Kiel Germany July 1981 ROBERT F SCHMIDT Preface to the First Edition In the field of sensory physiology we are concerned with what our sense organs and the associated central nervous structures can do and how that performance is achieved Research here is not limited to description of the physicochemical reactions taking place in these structures the conditions under which sensations and perceptions arise and the rules that govern them are also of fundamental interest Sensory physiology thus demands the attention of everyone who wishes to or must delve into the potentialities and limitations of human experience      **Handbook of Perception Volume 6A** Edward C.

Carterette, 2012-12-02 Handbook of Perception Volume VIA Tasting and Smelling focuses on the psychophysics of tasting and smelling and covers topics ranging from food technology and the neurophysiology of taste to the chemistry of odor the neural code the olfactory process and chemical signals in the environment This volume is organized into five sections encompassing 10 chapters and begins with a historical overview of taste research followed by a discussion on the biophysics and chemistry of taste and its phylogenetic basis in vertebrates The focus then shifts to the nature of taste qualities the psychophysical methods of studying them and the influence on taste sensation of factors such as intensity duration and area of stimulation The important phenomenon of adaptation is well covered with attention to the role of water The book methodically introduces the reader to the pleasantness or unpleasantness of a food the physicochemical basis of olfaction information processing in the olfactory nerve pathway and the relationship between molecular structure and odor A chapter on the extraneous stimulation caused by industrial processes the psychophysical foundation for applications of olfactory research and real and potential applications in the realm of odor abatement concludes the volume This book will serve as a basic source and reference work for psychologists and natural scientists as well as for those who are interested in human perception      **Cognitive Psychophysiology: Event-Related Potentials and the Study of Cognition** Emanuel

Donchin, 2022-11-01 Originally published in 1984 Cognitive Psychophysiology Event related Potentials and the Study of Cognition is the first volume to come out of The Carmel Conferences designed to examine in detail the assertion that the endogenous components of the Event Related Brain Potential ERP can serve as a tool in the analysis of cognition The intent of this book was to examine on a rather broad front the claims of cognitive psychophysiology to a niche in the domain of cognitive science Discussions included selective attention the ERP and decision and memory processes preparatory processes mental chronometry perceptual processes individual differences and clinical applications It provides an interesting snapshot of the status of ERP research just as it was venturing assertively into cognitive science      *Vestibular Contributions to Health and Disease, Volume II - Dedicated to Bernard Cohen* Richard Lewis, Michael Strupp, 2021-11-26      *Catalog of*

*Copyright Entries. Third Series* Library of Congress. Copyright Office, 1970      **Consciousness and Self-Regulation** Gary Schwartz, 2013-11-11 The first and foremost concrete fact which every one will affirm to belong to his inner experience is the

fact that consciousness of some sort goes on I William James 1893 We are witnessing today a mounting interest among behavioral and biological scientists in problems long recognized as central to our understanding of human nature yet until recently considered out of the bounds of scientific psychology and physiology Sometimes thrown into the heading of altered states of consciousness this growing research bears directly upon such time honored questions as the nature of conscious experience the mind body relationship and volition If one broadly views this research as encompassing the two interrelated areas of consciousness and self regulation one can find many relevant contemporary examples of creative and experimentally sophisticated approaches including research on the regulation of perception and sensory experience attention imagery and thinking emotion and pain hypnosis and meditation biofeedback and voluntary control hemispheric asymmetry and specialization of brain function drug induced subjective states and biological rhythms Because the material is spread over many different kinds of publications and disciplines it is difficult for anyone person to keep fully abreast of the significant advances The overall aim of the new Plenum Series in Consciousness and Self Regulation Advances in Research is to provide a scholarly forum for discussing integration of these diverse areas by presenting some of the best current research and theory

*Ratio Scaling of Psychological Magnitude* Stanley J. Bolanowski, Jr., George A. Gescheider, 2013-06-17 Presenting the proceedings of a conference held at Syracuse University in honor of S S Stevens a pioneer in the scaling of sensory magnitudes and the originator of the method of magnitude estimation this volume brings together the work of 20 authorities on the procedures of ratio scaling These experts psychophysicists physiologists and theoreticians offer their views on whether or not psychological magnitudes can be measured and whether the judgments of psychological magnitudes constitute the basis for the construction of a ratio scale Also discussed is the question of whether any single method could stand out as a potential standard technique for measuring psychological magnitudes

**Principles of Receptor Physiology** Werner R. Loewenstein, 2013-03-07 Why should there be a handbook of sensory physiology and if so why now The editors have asked this question marshalled all of the arguments that seemed to speak against their project and then discovered that most of these arguments really spoke in favor of it there seemed to be no doubt that the attempt should be made and that it should be made now No complete overview of sensory physiology has been attempted since Bethe's *Handbuch der normalen und pathologischen Physiologie* nearly forty years ago Since then the field has evolved with unforeseen rapidity Although electric probing of single peripheral nerve fibers was begun by ADRIAN and ZOTTERMAN as early as 1926 in the somatosensory system and extended to single optic nerve fibers by HARTLINE in 1932 the real upsurge of such single unit studies has only come during the last two decades Single cell electrophysiology has now been applied to all sensory modalities and on almost every conceivable phylogenetic level It has begun to clarify peripheral receptor action and is adding to our understanding of the central processing of sensory information In parallel with these developments there have been fundamental studies of the physics and chemistry of the receptors themselves these studies are leading to

insights into the mechanisms of energy transduction and nerve impulse initiation      *Fundamental Neuroscience for Basic and Clinical Applications E-Book* Duane E. Haines, Gregory A. Mihailoff, 2017-08-17 Using a rigorous yet clinically focused approach *Fundamental Neuroscience for Basic and Clinical Applications* 5th Edition covers the fundamental neuroscience information needed for coursework exams and beyond It integrates neuroanatomy pharmacology and physiology and offers a full section devoted to systems neurobiology helping you comprehend and retain the complex material you need to know Highlights clinical content in blue throughout the text helping you focus on what you need to know in the clinical environment Presents thoroughly updated information in every chapter with an emphasis on new clinical thinking as related to the brain and systems neurobiology Features hundreds of correlated state of the art imaging examples anatomical diagrams and histology photos nearly half are new or improved for this edition Pays special attention to the correct use of clinical and anatomical terminology and provides new clinical text and clinical anatomical correlations      Perceiving in Depth, Volume 2 Ian P. Howard, Brian J. Rogers, 2012-02-24 The three volume work *Perceiving in Depth* is a sequel to *Binocular Vision and Stereopsis* and to *Seeing in Depth* both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 2 addresses stereoscopic vision in cats and primates including humans It begins with an account of the physiology of stereoscopic mechanisms It then deals with binocular rivalry binocular summation binocular masking and the interocular transfer of visual effects such as the motion aftereffect and visual learning The geometry of the region in binocular space that creates fused images the horopter is discussed in some detail Objects outside the horopter produce images with binocular disparities that are used for stereoscopic vision Two chapters provide accounts of mechanisms that bring the images into binocular register and of stimulus tokens that are used to detect binocular disparities Another chapter discusses cyclopean effects such as cyclopean illusions cyclopean motion and binocular direction that are seen only with binocular vision Stereoacuity is the smallest depth interval that can be detected Methods of measuring stereoacuity and factors that influence it are discussed Two chapters deal with the various types of binocular disparity and the role of each type in stereoscopic vision Another chapter deals with visual effects such as figure perception motion perception and whiteness perception that are affected by the relative distances of stimuli The spatiotemporal aspects of stereoscopic vision including the Pulfrich stereomotion effect are reviewed The volume ends with an account of techniques used to create stereoscopic displays and of the applications of stereoscopy      **Report USAFSAM-TR.** ,1982      Perceiving in Depth, Volume 2: Stereoscopic Vision Ian P. Howard, Brian J. Rogers, 2012-01-27 The three volume work *Perceiving in*

Depth is a sequel to Binocular Vision and Stereopsis and to Seeing in Depth both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 2 addresses stereoscopic vision in cats and primates including humans It begins with an account of the physiology of stereoscopic mechanisms It then deals with binocular rivalry binocular summation binocular masking and the interocular transfer of visual effects such as the motion aftereffect and visual learning The geometry of the region in binocular space that creates fused images the horopter is discussed in some detail Objects outside the horopter produce images with binocular disparities that are used for stereoscopic vision Two chapters provide accounts of mechanisms that bring the images into binocular register and of stimulus tokens that are used to detect binocular disparities Another chapter discusses cyclopean effects such as cyclopean illusions cyclopean motion and binocular direction that are seen only with binocular vision Stereoacuity is the smallest depth interval that can be detected Methods of measuring stereoacuity and factors that influence it are discussed Two chapters deal with the various types of binocular disparity and the role of each type in stereoscopic vision Another chapter deals with visual effects such as figure perception motion perception and whiteness perception that are affected by the relative distances of stimuli The spatiotemporal aspects of stereoscopic vision including the Pulfrich stereomotion effect are reviewed The volume ends with an account of techniques used to create stereoscopic displays and of the applications of stereoscopy

*Cerebral Cortex* Kathleen S. Rockland, Jon H. Kaas, Alan Peters, 2013-11-11 Over the last twenty five years there has been an extensive effort still growing for that matter to explore and understand the organization of extrastriate cortex in primates We now recognize that most of caudal neocortex is visual in some sense and that this large visual region includes many distinct areas Some of these areas have been well defined and connections neural properties and the functional consequences of deactivations have been studied More recently non invasive imaging of cortical activity patterns during visual tasks has led to an expanding stream of papers on extrastriate visual cortex of humans and results have been related to theories of visual cortex organization that have emerged from research on monkeys Against this backdrop the time seems ripe for a review of progress and a glance at the future One caveat important to emphasize at the very onset is that the reader may be puzzled or confused by the use of different terminologies Individual investigators commonly tend to favor different terminologies but in general some prove more advantageous than others As discussed by Rowe and Stone 1977 as well as by others there is an unfortunate tendency for role indicating names to lead to fixed ideas about function in contrast to those that are more neutral and adaptable to new findings *Fish Hearing and Bioacoustics* Joseph A.

Sisneros, 2015-10-29 Fish Hearing and Bioacoustics is an anthology of review papers that were presented at a special symposium to honor Arthur Popper and Richard Fay on May 25th 2013 at the Mote Marine Laboratory in Sarasota FL. The research presentations at this conference spanned the range of disciplines covered by Fay and Popper during their long and productive careers. The book includes the following thematic areas for the papers in this special volume: morphology and anatomy of the inner ear and lateral line systems; physiology of inner ear lateral line and central auditory systems; acoustically mediated behavior including communication and sound localization; and environmental influences on fish hearing and bioacoustics including anthropogenic effects of noise on fishes. Each chapter reviews and summarizes the past studies of particular area that will lead the reader up to the current work presented at the symposium. In addition, each chapter includes a perspective of how Arthur Popper and Richard Fay have influenced their particular area of fish bioacoustic research. Each manuscript also includes a hypothesis for future studies. These hypotheses will provide a springboard for future work in each field.

**Medical and Health Care Books and Serials in Print**, 1986 Bowker's Medical Books in Print, 1975 *The Human Central Nervous System* R. Nieuwenhuys, J. Voogd, C. van Huijzen, 2012-12-06 Purpose and Plan This atlas though primarily intended for medical students may also be expected to. This atlas has been designed with the object to be useful as a quick pictorial review for providing a comprehensive pictorial practitioners in the various neurological survey of the macroscopic and microscopic structure of the human central nervous system. The pictorial material encompasses 154 Material Techniques and Preparation half-tone and line drawings all derived of the Illustrations from original macroscopic and microscopic preparations. Considerable thought has been given in the preparation of these drawings based on eight brains and one spinal cord of adult individuals with no record of findings to an optimal combination of clarity and exactness. Moreover, great pains have been taken to achieve a maximal coherence fixed for at least two months in formalin of thematically related figures. The illustrations are arranged in four sections. The first showing the external morphology. This section depicts the gross appearance and brain was then serially sliced into 2 mm three-dimensional structure of the brain thick sections in the coronal plane. Three and spinal cord. The second section in other brains were sliced in the three other directions of a number of whole brain conventional planes: sagittal, horizontal, slices sectioned in four different directions.

**Progress in Sensory Physiology**, 2012-12-06 I fancy that many of you like myself have woken up in the night with a sleeping arm or leg. It is a very peculiar feeling to have that arm or leg cold and lifeless hanging there at your side as if it were something which does not belong to you. In such situations you recover some of the motor functions before the sensory functions which enable you to move the limb like a pendulum. For a few seconds the arm functions as an artificial limb, a prosthesis without sensors. In general we are not aware of the importance of our sensory organs until we lose them. You do not feel the pressure of your clothes on the skin or the ring on your finger. In the nineteenth century such



phenomena generally named adaptation were studied to a great extent particularly in vision as well as in the so called lower senses The question whether sensory adaptation was due to changes in the peripheral sensory receptors or in the central nervous structure remained in general open until the 1920s Then the development of the electronic arsenal gave us the means to attack the problem by direct observations of the electrical events in the peripheral as well as the central nervous system But even today there are still some blank areas in our knowledge of adaptation

The book delves into Contributions To Sensory Physiology Volume 2. Contributions To Sensory Physiology Volume 2 is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Contributions To Sensory Physiology Volume 2, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Contributions To Sensory Physiology Volume 2.

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### **Contributions To Sensory Physiology Volume 2 Introduction**

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