In An Acoustic Chamber Psychophysical Audiogram Of A

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Human Factors Engineering Bibliographic Series - 1960

Sound - 1962

VARIABILITY OF THE ABSOLUTE AUDITORY THRESHOLD: A PSYCHOPHYSICAL STUDY. - GEORGE HERMAN 1952

Catalog of National Bureau of Standards Publications, 1966-1976 - United States. National Bureau of Standards. Technical Information and Publications Division 1978

Handbook of Noise and Vibration Control - Malcolm J. Crocker 2007-10-05
Two of the most acclaimed reference works in the area of acoustics in recent years have been our Encyclopedia of Acoustics, 4 Volume set and the Handbook of Acoustics spin-off. These works, edited by Malcolm Crocker, positioned Wiley as a major player in the acoustics reference market. With our recently published revision of Beranek & Ver's Noise and Vibration Control Engineering, Wiley is a highly respected name in the acoustics business. Crocker's new handbook covers an area of great importance to engineers and designers. Noise and vibration control is one largest areas of application of the acoustics topics covered in the successful encyclopedia and handbook. It is also an area that has been under-published in recent years. Crocker has positioned this reference to cover the gamut of topics while focusing more on the applications to industrial needs. In this way the book will become the best single source of need-to-know information for the professional markets.
Building for People - Arthur I. Rubin 1980

Evaluation of Human Work - John R. Wilson 2015-04-16
Written by experts with real-world experience in applying ergonomics methodology in a range of contexts, Evaluation of Human Work, Fourth Edition explores ergonomics and human factors from a "doing it" perspective. More than a cookbook of ergonomics methods, the book encourages students to think about which methods they should apply,

when, and why.

Ethology and Behavioral Ecology of Otariids and the Odobenid - Claudio Campagna 2021-06-02

This book is focused on the marine mammalian groups the Otariidae and the Odobenidae, otherwise known as fur seals, sea lions and the walrus. In 30 chapters, more than 60 authors from 30 institutions and 13 nationalities, discuss a broad suite of topics from maternal care and mating behavior, through play, cognition and personality, to adaptation to life in the Anthropocene. The authors explore the behaviors that have allowed these semi-aquatic mammals to thrive in the marine realm. Many populations have recovered following historical decimation, with interesting evolutionary consequences which are explored. Detailed, selected, individual species descriptions are also provided, showcasing the behavioral diversity of this engaging, adaptive and highly successful group of marine mammals.

The Journal of the Acoustical Society of America - Acoustical Society of America 2006

Neurological Research Supported by the National Institute of Neurological Diseases and Stroke - National Institute of Neurological Diseases and Stroke 1969

NBS Special Publication - 1978

Publications - United States. National Bureau of Standards 1978

Spatial Hearing - Jens Blauert 1997

The field of spatial hearing has exploded in the decade or so since Jens Blauert's classic work on acoustics was first published in English. This revised edition adds a new chapter that describes developments in such areas as auditory virtual reality (an important field of application that is based mainly on the physics of spatial hearing), binaural technology (modeling speech enhancement by binaural hearing), and spatial sound-field mapping. The chapter also includes recent research on the precedence effect that provides clear experimental evidence that cognition plays a significant role in spatial hearing.The remaining four chapters in this comprehensive reference cover auditory research procedures and psychometric methods, spatial hearing with one sound source, spatial hearing with multiple sound sources and in enclosed spaces, and progress and trends from 1972 (the first German edition) to 1983 (the first English edition) -- work that includes research on the physics of the external ear, and the application of signal processing theory to modeling the spatial hearing process. There is an extensive bibliography of more than 900 items.

Handbook of Research Methods in Experimental Psychology - Stephen F. Davis 2008-04-15

The Handbook of Research Methods in Experimental Psychology presents a comprehensive and contemporary treatment of research methodologies used in experimental psychology. Places experimental psychology in historical context, investigates the changing nature of research methodology, experimental design, and analytic procedures, and features research in selected content areas. Provides an excellent source of potential research ideas for advanced undergraduate and beginning graduate students. Illustrates the range of research methodologies used in experimental psychology. Contains contributions written by leading researchers. Now available in full text online via xreferplus, the award-winning reference library on

the web from xrefer. For more information, visit www.xreferplus.com

The Journal of the Acoustical Society of Japan (E). - 1989

Contains English abstracts of original papers and letters to the editor that appear in the Japanese edition.

The Noise Manual - Elliott H. Berger 2003

Topics covered include fundamentals of sound, vibration and hearing, elements of a hearing conservation program, noise interference and annoyance, regulations, standards and laws.

Cumulated Index Medicus - 2000

Psychophysics - George A. Gescheider 1985

The problems of psychophysics -- the scientific study of the relationship between stimulus and sensation -- constitute some of the most basic problems of modern psychology. This book introduces students to the fundamentals of classical and modern psychophysics.

Research Grants Index - National Institutes of Health (U.S.). Division of Research Grants 1972

Virtual Auditory Space: Generation and Applications - Simon Carlile 2013-11-11

An illusion of auditory space can be generated by the appropriate filtering of sounds presented over headphones: the so-called virtual auditory space (VAS). This book provides a bridge between many of the different disciplines that are involved in developing and exploiting this technology. The first part is fairly introductory in nature, while the second examines a number of issues relating to the generation of high fidelity virtual auditory space. The last two chapters review current research applications of VAS.

Safety Science Abstracts Journal - 1981

Handbook of Laboratory Animal Science, Volume II - Jann Hau 2011-04-22

Biomedical research involving animals remains essential for the advancement of the medical, veterinary, agricultural, and biological sciences. Following in the footsteps of its predecessors, the Handbook of Laboratory Animal Science, Volume II, Third Edition: Animal Models explains in great detail the comparative considerations underlying the choic

Electrophysiological and Psychophysical Assessment of Aerial Hearing in Pinnipeds - Jason Muslow 2009

The Psychophysics of Speech Perception - M.E. Schouten 2012-12-06

The following is a passage from our application for NATO sponsorship: "In the main, the participants in this workshop on the Psychophysics of Speech Perception come from two areas of research: - one area is that of speech perception researc,h, in which the perception of speech sounds is investigated; - the other area is that of psychoacoustics, or auditory psychophysics, in which the perception of simple non-speech sounds, such as pure tones or noise bursts, is investigated, in order to determine the properties of the hearing mechanism. Al though there is widespread agreement among both speech researchers and auditory psychophysicists that there should be a great deal of co-operation between them, the two areas have, generally speaking, remained separate, each with its own research questions, paradigms, and above all, traditions. Psychoacousticians have, so far, continued to investigate the peripheral hearing organ by means of simple sounds, regarding the preoccupations of speech researchers

as too many near-empty theories in need of a more solid factual base. Speech perception researchers, on the other hand, have continued to investigate the way human listeners classify vowels and consonants, claiming that psychoacoustics is not concerned with normal, everyday, human perception.

Auditory Effects of Microwave Radiation - James C. Lin 2021-08-19

This book examines the human auditory effects of exposure to directed beams of high-power microwave pulses, which research results have shown can cause a cascade of health events when aimed at a human subject or the subject's head. The book details multidisciplinary investigations using physical theories and models, physiological events and phenomena, and computer analysis and simulation. Coverage includes brain anatomy and physiology, dosimetry of microwave power deposition, microwave auditory effect, interaction mechanisms, shock/pressure wave induction, Havana syndrome, and application in microwave thermoacoustic tomography (MTT). The book will be welcomed by scientists, academics, health professionals, government officials, and practicing biomedical engineers as an important contribution to the continuing study of the effects of microwave pulse absorption on humans.

Publications of the National Bureau of Standards ... Catalog - United States. National Bureau of Standards 1978

Hearing - Stanley A. Gelfand 2004-09-28

Brimming with more than more than 1700 references, this reader-friendly and extensively revised Fourth Edition will prove invaluable to instructors and students alike-providing a unified approach to the anatomical, physiological, and perceptual aspects of audition with updated chapters on the latest developments in the field.

Aquatic Mammals - 1996

Dictionary of Pure and Applied Physics - Dipak Basu 2018-10-08

Clear, precise definitions of scientific terms are crucial to good scientific and technical writing-and to understanding the writings of others. Whether you are a physicist, engineer, mathematician, or technical writer, whether you work in a research, academic, or industrial setting, we all have the occasional need for comprehensible, working definitions of scientific terms. To meet that need, CRC Press proudly announces publication of the Dictionary of Pure and Applied Physics-the first published volume of CRC's Comprehensive Dictionary of Physics. Authored by eminent scientists from around the world, offers concise, authoritative definitions of more than 3,000 terms covering a range of pure and applied disciplines: acoustics biophysics communications electricity electronics geometrical optics low-temperature physics magnetism medical physics physical optics The editor has taken care to ensure each entry is as self-contained as possible, to include terms from the frontiers of technology, and to omit obsolete terms that can clutter a search. The result is a lucid, accessible, and convenient reference valuable to both the novice and the seasoned professional.

Hearing — Physiological Bases and Psychophysics - R. Klinke 2012-12-06

The present book contains the original papers and essential points of the general discussion of a meeting organized in a series of tri-annual conferences, initiated by Dr. R. Plomp with the meeting in Driebergen, The Netherlands, 1969. These symposia have tried to bring

to\ether people from extreme fields in auditory research and to amalgamate their recent findings. This series of conferences has proven to be most successful and has attracted much attention by scientists in auditory research. The organizers have tried to maintain the character of the meeting with em phasis on discussion by precirculation of the full text of the papers and by re stricting the number of active contributions. Unfortunately, this forced us to reject a great number of submitted papers - in selection we attempted to compose a fair survey of certain fields of auditory research but leave others untreated. Because of the same reason the number of invited review papers had to be limited to three. The reader may decide whether or not this selection was adequate. We thank all those participants who attended the meeting inspite of the rejection of their paper. The authors have been responsible for text and typing of their manuscripts. The editors have not attempted to standardize the spelling.

Rodent Bioacoustics - Micheal L. Dent 2018-08-28

By far, the most widely used subjects in psychological and biological research today are rodents. Although rats and mice comprise the largest group of animals used in research, there are over 2,000 species and 27 families of rodents, living all over the world (except Antarctica) and thriving in many different habitat types. The vast environmental diversity that rodents face has led to numerous adaptations for communication, including vocalizing and hearing in both the sonic and ultrasonic ranges, effectively communicating in the open air and underground, and using vocalizations for coordinating sexual behavior, for mother-pup interactions, and for signaling an alarming situation to the group. Some rodent species have even developed foot drumming behaviors for communication. Comparative studies from around the globe, using both field and laboratory methodologies, reveal the vast differences in acoustic communication behavior across many rodent species. Some rodents are amenable to training and have been domesticated and bred purely for research purposes. Since the early 1900s, rats and mice have been indispensable to research programs around the world. Thus, much of what we know about hearing and vocalizations in rodents come from these two species tested in the laboratory. The sequencing of the mouse genome in 2002, followed by the rat genome in 2004, only increased the utility of these animals as research subjects since genetically engineered strains mimicking human diseases and disorders could be developed more easily. In the laboratory, rats and mice are used as models for human communication and hearing disorders and are involved in studies on hearing loss and prevention, hormones, and auditory plasticity, to name a few. We know that certain strains of mice retain hearing better than others throughout their lifespan, and about the genes involved in those differences. We know about the effects of noise, hormones, sex, aging, and circadian rhythms on hearing in mice and other rodents. We also know about normal hearing in many families of rodents, including the perception of simple and complex stimuli and the anatomy and physiology of hearing and sound localization. The importance of acoustic communication to these animals, as well as the significance of these mammals to biomedical research, are summarized in the chapters.

Catalog of National Bureau of Standards Publications, 1966-1976 - United States. National Bureau of Standards 1978

Psychophysics, Physiology And Models Of Hearing - Torsten Dau 1999-07-06
Recent advances in auditory neuroscience are characterized by a close interaction between neurophysiological findings, psychophysical effects and integrative models that attempt to bridge the gap between neuroscience and psychophysics. This volume introduces the latest developments in this quickly evolving interdisciplinary area. Tutorials by leading international scientists as well as more focused contributions by active researchers providing an invaluable summary of our current knowledge of psychophysics and auditory physiology and the main lines of research in this field. The book will be of interest to anyone involved in hearing research, including neuroscientists, behavioral scientists, acousticians and biophysicists.
The Effects of Noise on Aquatic Life II - Arthur N. Popper 2015-11-26
The meeting of Aquatic Noise 2013 will introduce participants to the most recent research data, regulatory issues and thinking about effects of man-made noise and will foster critical cross-disciplinary discussion between the participants. Emphasis will be on the cross-fertilization of ideas and findings across species and noise sources. As with its predecessor, The Effects of Noise on Aquatic Life: 3rd International Conference will encourage discussion of the impact of underwater sound, its regulation and mitigation of its effects. With over 100 contributions from leading researchers, a wide range of sources of underwater sound will be considered.
Psychology of Music - Diana Deutsch 2013-10-22
The Psychology of Music draws together the diverse and scattered literature on the psychology of music. It explores the way music is processed by the listener and the performer and considers several issues that are of importance both to perceptual psychology and to contemporary music, such as the way the sound of an instrument is identified regardless of its pitch or loudness, or the types of information that can be discarded in the synthetic replication of a sound without distorting perceived timbre. Comprised of 18 chapters, this book begins with a review of the classical psychoacoustical literature on tone perception, focusing on characteristics of particular relevance to music. The attributes of pitch, loudness, and timbre are examined, and a summary of research methods in psychoacoustics is presented. Subsequent chapters deal with timbre perception; the subjective effects of different sound fields; temporal aspects of music; abstract structures formed by pitch relationships in music; different tests of musical ability; and the importance of abstract structural representation in understanding how music is performed. The final chapter evaluates the relationship between new music and psychology. This monograph should be a valuable resource for psychologists and musicians.
Oto-, Rhino-, Laryngology - Martinus Willem Woerdeman 1976

Research Awards Index -

The Senses of Fish - Gerhard von der Emde 2012-12-06
Fish comprise more than 50% of all living vertebrates and are found in a

wide range of highly diverse habitats like the deep sea, the shoreline, tide pools, tropical streams and sweetwater ponds. During evolution, the senses of fish have adapted to the physical conditions of the environment in which different species live. As a result, the senses of fish exhibit a remarkable diversity that allows different species to deal with the physical constraints imposed by their habitat. In addition, fish have evolved several `new' sensory systems that are unique to the aquatic environment. In this book, examples of adaptation and refinement are given for six sensory systems: The visual system, The auditory system, The olfactory system, The mechanosensory lateral line system, The taste system, The electrosensory system. In each case, the environmental conditions under which a particular group of fish lives are analyzed. This is followed by a description of morphology and physiology of the sensory system and by an evaluation of its perceptional capabilities. Finally, the sensory adaptations to the particular conditions that prevail in the habitat of a species are highlighted. The various examples from different groups of fish presented in this book demonstrate the impressive capability of fish sensory systems to effectively overcome physical problems imposed by the environment.

Communication Acoustics - Ville Pulkki 2015-04-30

In communication acoustics, the communication channel consists of a sound source, a channel (acoustic and/or electric) and finally the receiver: the human auditory system, a complex and intricate system that shapes the way sound is heard. Thus, when developing techniques in communication acoustics, such as in speech, audio and aided hearing, it is important to understand the time–frequency–space resolution of hearing. This book facilitates the reader’s understanding and development of speech and audio techniques based on our knowledge of the auditory perceptual mechanisms by introducing the physical, signal-processing and psychophysical background to communication acoustics. It then provides a detailed explanation of sound technologies where a human listener is involved, including audio and speech techniques, sound quality measurement, hearing aids and audiology. Key features: Explains perceptually-based audio: the authors take a detailed but accessible engineering perspective on sound and hearing with a focus on the human place in the audio communications signal chain, from psychoacoustics and audiology to optimizing digital signal processing for human listening. Presents a wide overview of speech, from the human production of speech sounds and basics of phonetics to major speech technologies, recognition and synthesis of speech and methods for speech quality evaluation. Includes MATLAB examples that serve as an excellent basis for the reader’s own investigations into communication acoustics interaction schemes which intuitively combine touch, vision and voice for lifelike interactions.

Hearing - Edward Carterette 2012-12-02

Handbook of Perception, Volume IV: Hearing reviews the literature on the physical, physiological, and psychological aspects of hearing. The book covers a wide array of topics relevant to hearing, including the measurement and biophysics of the cochlea, binaural and spatial hearing, and the effects of hearing impairment on the auditory system. The psychological, sociological, and

physiological effects of noise are also addressed. This volume is organized into six sections encompassing 16 chapters and begins with a historical overview of the history of research on hearing, from the antiquity of acoustics to the physical and mathematical developments that gave rise to auditory facts and theories. Auditory perception, physiology, and theory are followed up to about 1940, whereas the work on analysis synthesis and perception of speech is traced up to about 1960. The chapters that follow focus on measurement, the biophysics of the cochlea, and neural coding. The underlying mechanisms of the processing of acoustic information are given consideration. The book methodically introduces the reader to the mechanisms of frequency, intensity, time, and periodicity, along with stress, trauma, and pathology. A chapter on the transient physiological effects of noise and their relation to neuroendocrine stress theory concludes the treatise. This book is intended for psychologists, biologists, and natural scientists, as well as for those who are interested in the physical, physiological, and psychological aspects of hearing.