
Profile Analysis

A Different View of Auditory Intensity Discrimination

David M. Green *Harvard University*

ABSTRACT: *This article describes some auditory experiments involving the detection of a change in the spectrum of a brief auditory signal. Unlike the more traditional view of intensity discrimination that emphasizes a change in level in a particular frequency band, a new view based on the evaluation of the overall shape or profile of the spectrum is proposed. This new view is different in several ways from the traditional description. First, the memory requirements appear to be quite different, as demonstrated in an experiment in which the interstimulus interval is changed. Second, the mechanism of detecting the change appears to be global rather than local, since detection improves as the spectrum increases in width and density. Despite the global nature of the process, one does not seem to be able to combine spectral estimates across the two ears. Finally, the idea of profile analysis is applied to the problem of detecting a sinusoid in noise and to the results obtained when signal frequency is uncertain.*

This article analyzes the common auditory problem of detecting a difference between two sounds. This analysis is restricted to sounds that differ only in the intensity of some part of their spectra. Examples of problems usually treated under this restriction are the detection of an increment in a sinusoidal signal, the detection of a weak signal in noise, or the change in intensity of some component or components of a multicomponent signal.

There are two general accounts of how intensity discrimination is carried out. The first is a traditional view, one that has developed during the past 20 years and that still represents the best current theoretical position we have for dealing with a certain set of intensity discrimination problems. The second view, which we call profile analysis, represents, in part, the realization that certain problems of intensity discrimination may involve mechanisms and processes quite different from those described in the traditional view. Profile analysis stresses the importance of certain variables that the traditional view largely ignored. By the same token, profile analysis suggests that other variables, held to be crucial in the traditional view, are largely unimportant.

These two views are not exclusive. When discriminating the change in the intensity of a single pure tone, for example, the traditional view is the only analysis possible because no profile is available. But in a number of situations there is appreciable energy distributed throughout the spectrum. This energy, which the traditional view ignores, becomes part of a "profile" that can strongly influence our ability to detect a small change in energy in some other part of the spectrum.

The task, then, is not to choose between the two views, but to determine those situations in which one or the other view is more appropriate. This article's organization is not chronological, and the theoretical issues described in the first part did not motivate the experimental work presented later. Rather, a number of experimental results suggested something amiss with the traditional view, and further experimental work suggested the idea of a profile. Still further work has clarified some of the properties of this concept, but additional work is needed to understand the process in more detail and to answer the many important questions that remain unanswered. The results presented here largely summarize what we have learned in the past two years.

Finally, I should indicate the thanks I owe to my collaborators in this effort, Murray Spiegel and Gerald Kidd, who were postdoctoral fellows in my laboratory, and Maria Picardi, who programmed many of the experiments and collected some of the data.

Theory

Figure 1 displays, in its simplest terms, the difference between what I shall call the traditional view and profile analysis. The difference is illustrated in a two-alternative forced-choice task. The observer's task is to detect the signal increment added to one of two sounds presented at two different times. The figure illustrates the spectra of the two sounds and the measurements presumed to be made by the observer in trying to detect the difference. The nature of the measurement is not known in detail, but we will try to characterize its general features in the discussion that follows. The figure highlights that the critical difference is whether the comparison is between two

Profile Analysis Auditory Intensity Discrimination

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Profile Analysis Auditory Intensity Discrimination:

Profile Analysis David Marvin Green, 1988 This book brings together recent research on the ability of human listeners to discern changes in the shape of complex acoustic spectra It systematically discusses issues surrounding the discrimination of a change in acoustic intensity and the physiological mechanisms responsible for this process The book also proposes two new theories which attempt to explain spectral shape discrimination on the basis of more elementary auditory processes The research described here is helping scientists gain a better understanding of auditory skills such as those involved in listening to music and speech Auditory Physiology and Perception Y. Cazals, K. Horner, L. Demany, 2013-10-22 Auditory Physiology and Perception documents the proceedings of the 9th International Symposium on Hearing held in Careens France 9 14 June 1991 The aim of the symposium was to promote exchanges between hearing scientists working with different approaches from cell biology to psychology The volume is organized into 10 parts Part I contains papers on the biology of inner ear cells Part II presents studies on auditory periphery functioning Part III examines frequency selectivity while Part IV contains papers that deal with the subject of pitch The papers in Part V examine the coding of intensity Parts VI and VII discuss temporal analyses and spectral shape analysis respectively Part VIII takes up spectro temporal processing Part IX covers binaural interactions and sound localization The studies in Part X focus on pathologies such as the relations between evoked otoacoustic emissions and pure tone audiometry and the effect of short duration acoustic trauma on activity of single neurons in the ventral cochlear nucleus The final chapter of the text is a tribute to Professor Zwicker a leading scientist in hearing who passed away some months before the symposium

Human Psychophysics William A. Yost, Richard R. Fay, 2012-12-06 The Springer Handbook of Auditory Research presents a series of comprehensive and synthetic reviews of the fundamental topics in modern auditory research The volumes are aimed at all individuals with interests in hearing research including advanced graduate students postdoctoral researchers and clinical investigators The volumes are intended to introduce new investigators to important aspects of hearing science and to help established investigators to understand better the fundamental theories and data in fields of hearing that they may not normally follow closely Each volume is intended to present a particular topic comprehensively and each chapter will serve as a synthetic overview and guide to the literature As such the chapters present neither exhaustive data reviews nor original research that has not yet appeared in peer reviewed journals The volumes focus on topics that have developed a solid data and conceptual foundation rather than on those for which a literature is only beginning to develop New research areas will be covered on a timely basis in the series as they begin to mature

Sensation and Judgment John C. Baird, 2014-02-25 Psychophysical theory exists in two distinct forms one ascribes the explanation of phenomena and empirical laws to sensory processes Context effects arising through the use of particular methods are an unwanted nuisance whose influence must be eliminated so that one isolates the true sensory scale The other considers psychophysics only in terms of cognitive variables such as the judgment strategies induced

by instructions and response biases Sensory factors play a minor role in cognitive approaches This work admits the validity of both forms of theory by arguing that the same empirical phenomena should be conceptualized in two alternative apparently contradictory ways This acceptance of opposites is necessary because some empirical phenomena are best explained in terms of sensory processes while others are best ascribed to central causes The complementarity theory stresses the mutually completing nature of two distinct models The first assigns importance to populations of sensory neurons acting in the aggregate and is formulated to deal with sensory effects The second assigns importance to judgment uncertainty and to the subject strategies induced by experimental procedures This model is formulated to explain context effects Throughout the text the exposition is interlaced with mathematics graphs and computer simulations designed to reveal the complementary nature of psychophysical explanations **Hearing** United States. National Recovery Administration,1933 Human Auditory Development Lynne A. Werner,2019-03-13 This book overviews auditory development in nonhuman species and proposes a common time frame for human and nonhuman auditory development It attempts to explain the mechanisms accounting for age related change in several domains of auditory processing **Hearing** Stanley A. Gelfand,2024-11-25 This fully revised and updated seventh edition provides a thorough overview and introduction to hearing science Covering topics such as conductive and cochlear mechanisms auditory pathways and binaural and spatial hearing and including some new and updated diagrams and figures this book serves as a great resource for both graduate students and professionals working in audiology and other fields like psychology neuroscience otolaryngology and linguistics This improved edition reflects the ever changing field of hearing science Auditory Processing of Complex Sounds William A. Yost,Charles S. Watson,2016-07-07 Originally published in 1987 this book is the result of a workshop on the processing of complex sounds held in 1986 All of the important contributions that are being made to understanding auditory processing of complex sounds could not be included in a single volume However the chapters do touch base with many of the lines of research and theory on complex sound and its perception at the time and was felt that they should provide both food for thought and a broad introduction to the literature on a topic that the editors were sure would be studied intensely in the following couple of decades The Sense of Hearing Christopher J. Plack,2023-07-27 The Sense of Hearing is a highly accessible introduction to auditory perception addressing the fundamental aspects of hearing This fourth edition has been revised to include up to date research and references In particular Chapter 7 on Pitch and Periodicity Coding and Chapter 13 on Hearing Loss include new material to reflect the fast pace of research in these areas The book introduces the nature of sound and the spectrum and the anatomy and physiology of the auditory system before discussing basic auditory processes such as frequency selectivity loudness and pitch perception temporal resolution and sound localization Subsequent chapters show how complex processes such as perceptual organization speech perception and music perception are dependent on the initial analysis that occurs when sounds enter the ear The book concludes with a description of the physiological bases and

perceptual consequences of hearing loss as well as the latest diagnostic techniques and management options that are available. Featuring student friendly resources including an overview of research techniques, an extensive glossary of technical terms, and over 150 original illustrations, *The Sense of Hearing* offers a clear introduction and an essential resource for students in the fields of audiology and sound perception.

The Oxford Handbook of Auditory Science: Hearing David R. Moore, Paul Albert Fuchs, Adrian Rees, Alan R. Palmer, Christopher J. Plack, 2010. Volume 1: The Ear, edited by Paul Fuchs; Volume 2: The Auditory Brain, edited by Alan Palmer and Adrian Rees; Volume 3: Hearing, edited by Chris Plack. Auditory science is one of the fastest growing areas of biomedical research. There are now around 10,000 researchers in auditory science and ten times that number working in allied professions. This growth is attributable to several major developments. Research on the inner ear has shown that elaborate systems of mechanical transduction and neural processes serve to improve sensitivity, sharpen frequency tuning, and modulate response of the ear to sound. Most recently, the molecular machinery underlying these phenomena has been explored and described in detail. The development, maintenance, and repair of the ear are also subjects of contemporary interest at the molecular level, as is the genetics of hearing disorders due to cochlear malfunctions.

Auditory Perception of Sound Sources William A. Yost, 2008. *Auditory Perception of Sound Sources* covers higher level auditory processes that are perceptual processes. The chapters describe how humans and other animals perceive the sounds that they receive from the many sound sources existing in the world. This book will provide an overview of areas of current research involved with understanding how sound source determination processes operate. This book will focus on psychophysics and perception as well as being relevant to basic auditory research.

Contents: Perceiving Sound Sources: An Overview, William A. Yost; Human Sound Source Identification, Robert A. Lutfi; Size Information in the Production and Perception of Communication Sounds, Roy D. Patterson; David R. R. Smith; Ralph van Dinter and Tom Walters; The role of memory in auditory perception, Laurent Demany and Catherine Semal; Auditory Attention and Filters, Ervin R. Hafer; Anastasios Sarampalis and Psyche Loui; Informational masking, Gerald Kidd Jr; Christine R. Mason; Virginia M. Richards; Frederick J. Gallun and Nathaniel I. Durlach; Effects of harmonicity and regularity on the perception of sound sources, Robert P. Carlyon and Hedwig E. Gockel; Spatial Hearing and Perceiving Sources, Christopher J. Darwin; Envelope Processing and Sound Source Perception, Stanley Sheft; Speech as a Sound Source, Andrew J. Lotto and Sarah C. Sullivan; Sound Source Perception and Stream Segregation in Non-human Vertebrate Animals, Richard R. Fay.

About the editors: William A. Yost, Ph.D., is Professor of Psychology, Adjunct Professor of Hearing Sciences of the Parmlly Hearing Institute, and Adjunct Professor of Otolaryngology at Loyola University of Chicago. Arthur N. Popper is Professor in the Department of Biology and Co-Director of the Center for Comparative and Evolutionary Biology of Hearing at the University of Maryland, College Park. Richard R. Fay is Director of the Parmlly Hearing Institute and Professor of Psychology at Loyola University of Chicago.

About the series: *The Springer Handbook of Auditory Research* presents a series of synthetic reviews of fundamental topics dealing with auditory systems.

Each volume is independent and authoritative taken as a set this series is the definitive resource in the field Advances In Hearing Research - Proceedings Of The 10th International Symposium On Hearing H Fastl,G M Klump,C Koppl,Geoffrey A Manley,1995-05-31 The main aim of the symposium on the hearing system is to provide a forum in which data ideas and models from both the physiological and psychoacoustical standpoints can be presented and discussed Apart from those areas traditionally covered by such meetings two areas with important recent advances have been included viz development and regeneration The present volume will be of interest to all scientists working in the field of auditory research **The Comparative Psychology of Audition** Robert J. Dooling,Stewart H. Hulse,2014-02-25 Uniting scientists who study music child language human psychoacoustics and animal acoustical communication this volume examines research on the perception of complex sounds The contributors papers focus on finding a common principle from the comparison of the processing of complex acoustic signals This volume emphasizes the comparative and the complex in auditory perception Topics covered range from communication systems in mice birds and primates to the perception and processing of language and music by humans Detection Theory Michael J. Hautus,Neil A. Macmillan,C. Douglas Creelman,2021-09-27 Detection Theory A User s Guide is an introduction to one of the most important tools for the analysis of data where choices must be made and performance is not perfect In these cases detection theory can transform judgments about subjective experiences such as perceptions and memories into quantitative data ready for analysis and modeling For beginners the first three chapters introduce measuring detection and discrimination evaluating decision criteria and the utility of receiver operating characteristics Later chapters cover more advanced research paradigms including complete tools for application including flowcharts tables and software student friendly language complete coverage of content area including both one dimensional and multidimensional models integrated treatment of threshold and nonparametric approaches an organized tutorial level introduction to multidimensional detection theory and popular discrimination paradigms presented as applications of multidimensional detection theory This modern summary of signal detection theory is both a self contained reference work for users and a readable text for graduate students and researchers learning the material either in courses or on their own *Perceptual Coherence* Stephen Handel,2006-05-25 The goal of this book is to describe these conceptual similarities and differences between hearing and seeing Although it is mathematical and conceptually analytical the book does not make explicit use of advanced mathematical concepts Each chapter combines information on hearing and seeing and gives a detailed treatment of a small number of topics **BOOK JACKET** *Handbook of Central Auditory Processing Disorder, Volume I, Second Edition* Frank E. Musiek,Gail D. Chermak,2013-11-06 Chermak and Musiek s two volume award winning handbooks are back in newly revised editions Extensively revised and expanded Volume I provides comprehensive coverage of the auditory neuroscience and clinical science needed to accurately diagnose the range of developmental and acquired central auditory processing disorders in children adults and older adults Building on the excellence achieved with the best selling 1st

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Dictionary of Biological Psychology Philip Winn, 2003-09-02 Biological Psychology is the study of psychological processes in terms of biological functions A major obstacle to understanding dialogue in the field has always been its terminology which is drawn from a variety of non psychological sources such as clinical medicine psychiatry and neuroscience as well as specialist areas of psychology such as ethology learning theory and psychophysics For the first time a distinguished international team of contributors has now drawn these terms together and defined them both in terms of their physical properties and their behavioural significance The Dictionary of Biological Psychology will prove an invaluable source of reference for undergraduates in psychology wrestling with the fundamentals of brain physiology anatomy and chemistry as well as researchers and practitioners in the neurosciences psychiatry and the professions allied to medicine It is an essential resource both for teaching and for independent study reliable for fact checking and a solid starting point for wider exploration

Perception And Cognition Of Music Irene Deliège, John A. Sloboda, 2004-08-02 This text comprises of reviews of work relating to music and mind It presents a range of approaches from the psychological through the computational to the musicological The reviews were selected from papers submitted at the Third International Conference on Music Perception and Cognition Liege 1994 to illustrate the wide range of perspectives now being adopted in studying how humans make and respond to music The book is divided into five sections The first part illustrates the role of analysis and ethnomusicology in understanding cultural determinants of musical behaviour The second part charts what is known about acquisition of musical competence from pre birth through to the expert performer The evidence accumulated about specific areas of the brain which control musical thinking and behaviour is examined in Part Three The fourth part examines how neurological behavioural and artificial intelligence approaches are converging to shed light on processes in auditory perception Finally Part Five highlights the important developments in how we conceptualize the way in which musical structures are represented in the mind

Sound - Perception - Performance Rolf Bader, 2013-05-23 Musical Performance covers many aspects like Musical Acoustics Music

Psychology of motor and prosodic actions It deals with basic concepts of the origin of music and its evolution ranges over neurocognitive foundations and covers computational technological or simulation solutions This volume gives an overview about current research in the foundation of musical performance studies on all these levels Recent concepts of synchronized systems evolutionary concepts basic understanding of performance as Gestalt patterns theories of music as performance goals or historical aspects are covered The neurocognitive basis of motor action in terms of music musical syntax as well as therapeutic aspects are discussed State of the art applications in performance realizations like virtual room acoustics virtual musicians new concepts of real time physical modeling using complex performance data as input or sensor and gesture studies with soft and hardware solutions are presented So although the field is still much larger this volume presents current trends in terms of understanding implementing and perceiving performance *Sensation and Perception* Hugh J. Foley, Mary Bates, 2019-08-14 Maintaining the strong pedagogy abundant student friendly examples and engaging conversational style of the previous editions the sixth edition of this introductory textbook makes technical scientific information accessible to those who are beginning to specialize in cognitive psychology *Sensation and Perception* Sixth Edition is newly available in a more affordable paperback version making it ideal for undergraduate students In this new edition Bates has built on Foley and Matlin's core text to add updates focusing on multisensory integration neural plasticity and cognitive neuroscience as well as real world examples and practical applications of psychological phenomena The sixth edition retains the clear organization of previous versions covering a wide range of core topics from skin senses such as touch to chemical senses such as taste and smell to our complex visual and auditory sensory systems This book is essential reading for undergraduates and postgraduates studying courses on sensation and perception

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