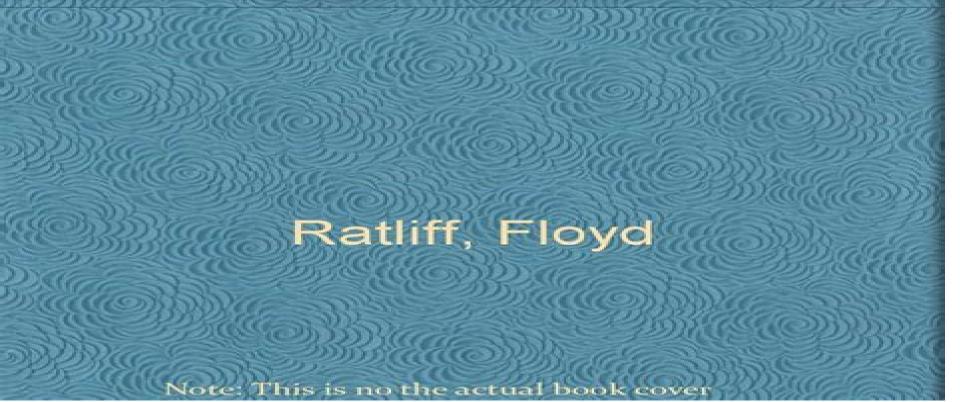
# Mach Bands: Quantitative Studies on Neural Networks in the Retina



# **Mach Bands Quantitative Studies On Neura**

**David Metzler** 

#### **Mach Bands Quantitative Studies On Neura:**

Mach Bands Floyd Ratliff,1965 One hundred years ago Ernst Mach published the first of his several quantitative studies on the interdependence of neighboring elements in the retina However Mach's application of mathematical modes of thought to the study of the nervous system was so far ahead of the times that his papers attracted little attention when they first appeared Within recent years considerable interest has developed in the mathematical analysis of the properties of complex neural networks. The main reason for this seemingly belated development of interest is that only within the last quarter century or so have the techniques of electrophysiology finally become sufficiently advanced to provide a sound empirical foundation for such studies. The interplay of the fundamental neural processes of excitation and inhibition about which Mach could only speculate can now be observed directly and with relative ease in practically all parts of the nervous system

Studies on Excitation and Inhibition in the Retina H. Keffer Hartline, 1974 Nonlinear Vision: Determination of Neural Receptive Fields, Function, and Networks Robert B. Pinter, 2018-05-04 This text brings to vision research a treatment different from that often found in books on the subject in its emphasis on nonlinear aspects of vision from human perception to eye cells of the fly There is considerable emphasis on mathematics which forms not only models but the algorithms for processing data Space and Time in Perception and Action Romi Nijhawan, Beena Khurana, 2010-03-25 What is the instantaneous position of a moving object from the point of view of the observer How does a tennis player know when and where to place their racket in order to return a 120 mph serve Does time stop sometimes and go faster at others Space time and motion have played a fundamental role in extending the foundations of 19th and 20th century physics Key breakthroughs resulted from scientists who focused not just on measurements based on rulers and clocks but also on the role of the observer Research targeted on the observer's capabilities and limitations raises a promising new approach that is likely to forward our understanding of neuroscience and psychophysics Space and Time in Perception and Action brings together theory and empirical findings from world class experts and is written for advanced students and neuroscientists with a particular interest in the psychophysics of space time and motion **Neural Mechanisms in Behavior** H.B. Barlow, R.M. Boynton, E.V. Evarts, E.R. Kandel, F. Ratliff, J.E. Rose, R.F. Thompson, 2012-12-06 This book is the product of a two day symposium held at the University of Texas Austin in March 1978 There was double motivation for our hosting a symposium on neural mechanisms in behavior The 1977 1978 academic year marked both the 50th anniversary of the Department of Psychology at Texas and the 30th anniversary of the famous Hixon Symposium organized by the longest serving member of the department LLOYD JEFFRESS PHILIP GOUGH then chairman of the department suggested that the department celebrate these two historic events and honor itself in the process by holding the first of a series of symposia on topics in experimental psychology Approval and initial funding for this enterprise came from ROBERT KING then Dean of Social and Behavioral Sciences additional funds were provided by the Program in Cognitive Science of the Sloan Foundation

Proceeds from the sale of this volume will all pass into a fund to help support subsequent symposia and volumes At 50 we are clearly a young department even for a psy chology department but psychology was at least nominally present from the beginning of The University of Texas in 1883 Then courses in psychology were offered in the School of Philosophy and had wonderful titles such as Mental Science Strictly Speaking In 1898 the first experimental psychology course was offered Or at least it was intended to be offered the catalog indicated that it was contingent upon the availability of necessary equipment

Neurocomputing James A. Anderson, James Arthur Anderson, Andras Pellionisz, Edward Rosenfeld, 1993-08-26 In bringing together seminal articles on the foundations of research the first volume of Neurocomputing has become an established guide to the background of concepts employed in this burgeoning field Neurocomputing 2 collects forty one articles covering network architecture neurobiological computation statistics and pattern classification and problems and applications that suggest important directions for the evolution of neurocomputing James A Anderson is Professor in the Department of Cognitive and Linguistic Sciences at Brown University Andras Pellionisz is a Research Associate Professor in the Department of Physiology and Biophysics at New York Medical Center and a Senior National Research Council Associate to NASA Edward Rosenfeld is editor and publisher of the newsletters Intelligence and Medical Intelligence After Digital James A. Anderson, 2017 After Digital looks at where the field of computation began and where it might be headed and offers predictions about a collaborative future relationship between human cognition and mechanical computation Perception Marco Bertamini, Michael Kubovy, 2018-05-08 It takes little or no effort for us to gather information by means of our senses but it would be a mistake to take this as a sign that perception is simple It was in the 20th century and after the establishment of psychology as a scientific discipline that the study of perception flourished This important volume gathers together a selection of articles and essays which represent some of the most interesting discoveries and theories It gives a flavour of the many different approaches and ideas taken by cognitive psychologists in this fascinating area Topics covered include attention brain systems object interpolation and completion object recognition and classification different types of Sensation and Measurement H.R. Moskowitz, B. Scharf, J.C. objects and information processing and models Stevens, 2012-12-06 We planned this book as a Festschrift for Smitty Stevens because we thought he might be retiring around 1974 although we knew very well that only death or deep illness would stop Smitty from doing science Death came suddenly unexpectedly after a full day of skiing at Vail Colorado on the annual trip with wife Didi to the Winter Conference on Brain Research Smitty liked winter conferences near ski resorts and often tried to get us other psychophysicists to organize one Every person is unique Smitty would have said it s mainly because each of us has so many genes that two combinations just alike would be well nigh impossible But most of us strive in many ways to be like others and to abide by the norms some smaller number try even harder to be unlike other people as a result many persons seem to lose their uniqueness their individuality Not Smitty He tried neither to be like others nor to be different He took himself as he found

himself and ascribed peculiarities strengths and weaknesses to his pioneering Utah forebears in whom he took much pride His was the true and right nonconformity He approached each task each problem ready to grapple with the facts and set them into meaningful order And if the answer he came up with was different from everyone else s well that was too bad

Portraits of Pioneers in Psychology Gregory A. Kimble, Michael Wertheimer, 2003-06-20 This book offers glimpses into the personal and scholarly lives of 20 giants in the history of psychology As in the earlier volumes prominent scholars were invited to prepare chapters on a pioneer who had made important contributions in their own area of expertise Some of the psychologists described may be the teachers of the instructors who will be the users of this book potentially providing a personal connection of the pioneers to the students A special section provides brief portraits of the editors and authors containing interesting information about the relationship between the pioneers and the psychologists who describe them Utilizing an informal personal sometimes humorous style of writing the book will appeal to students and instructors interested in the history of psychology Each of the five volumes in this series contains different profiles thereby bringing more than 100 of the pioneers in psychology more vividly to life **Beyond Art: A Third Culture** Peter Weibel, 2005-05-17 A new theory of culture presented with a new method achieved by comparing closely the art and science in 20th century Austria and Hungary Major achievements that have influenced the world like psychoanalysis abstract art quantum physics Gestalt psychology formal languages vision theories and the game theory etc originated from these countries and influence the world still today as a result of exile nurtured in the US A source book with numerous photographs images and diagrams it opens up a nearly infinite horizon of knowledge that helps one to understand what is going on in today s worlds of art and science Metaphors of Conciousness Ronald S. Valle, Rolf von Eckartsberg, 2012-12-06 As we move into the 1980s there is an increasing awareness that our civilization is going through a profound cultural transformation At the heart of this transformation lies what is often called a paradigm shift a dramatic change in the thoughts perceptions and values which form a particular vision of reality The paradigm that is now shifting comprises a large number of ideas and values that have dominated our society for several hundred years values that have been associated with various streams of Western culture among them the Scientific Revolution of the seventeenth century The Enlightenment and the Industrial Revolution They include the belief in the scientific method as the only valid approach to knowledge the split between mind and matter the view of nature as a mechanical system the view of life in society as a competitive struggle for survival and the belief in unlimited material progress to be achieved through economic and technological growth All these ideas and values are now found to be severely limited and in need of radical revision **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1965 Figural Synthesis Peter C. Dodwell, Terry Caelli, 2021-12-30 The aim of this book originally published in 1984 was to bring together a number of approaches to this important topic Significant advances had been made in the two decades before publication in our understanding of many aspects of the coding that occurs along the

visual pathways The major developments had been associated with probing the nature of logical processes whether physiologically or psychophysically and relatively less attention had been devoted to the problem of how such locally coded knowledge is put together to yield coherent representations of spatially and temporally extended patterns that is to figural synthesis Thus while a great deal was known about the responses of individual cells in the visual system to controlled stimulation and about the specificity of the orientational and spatial frequency tuning of channels assessed psychophysically there had been much less discussion of how such knowledge could be brought to bear on the general problems of understanding pattern recognition Visual Masking Bruno Breitmeyer, Haluk Ogmen, 2006-04-20 Where most current approaches to the study of visual consciousness adopt a steady state view the approach presented in this book explores its dynamic properties down to a resolution in the millisecond range BOOK JACKET An Introduction to Mathematical **Modeling in Physiology, Cell Biology, and Immunology** James Sneyd,2002 In many respects biology is the new frontier for applied mathematicians This book demonstrates the important role mathematics plays in the study of some biological problems It introduces mathematicians to the biological sciences and provides enough mathematics for bioscientists to appreciate the utility of the modelling approach The book presents a number of diverse topics such as neurophysiology cell biology immunology and human genetics It examines how research is done what mathematics is used what the outstanding questions are and how to enter the field Also given is a brief historical survey of each topic putting current research into perspective The book is suitable for mathematicians and biologists interested in mathematical methods in biology How **Vision Works** Nigel Daw, 2012-01-19 This book covers all aspects of the visual system from sensory aspects to eye movements attention and visual memory in a brief format Each chapter describes the psychology followed by where in the brain that aspect is dealt with the properties of the cells in that area and what happens if a patient has a lesion or stroke in **Systems Neuroscience** David Metzler, 2012-12-02 Systems Neuroscience is a compilation of interdisciplinary that area contributions to systems neuroscience an approach within neuroscience that connects system theory and computer simulation The compendium contains papers that discusses and elaborates a diverse range of studies in systems neuroscience The topics in the book include the psychophysical data on human visual perception and memory and indicates the value of a top down analysis in relating quantitative measurements of human behavior to the fine level analysis of the neurophysiology computer analysis of a neural model of masking and flicker fusion studies on the properties of differential equations that represent networks of neurons the development of an interactive computer graphics language for the simulation of concurrent processes such as those occurring in neural networks and the data structures for internal representations of spatial dimensions in the brain The book will be a good source of valuable insight for neuroscientists Limits in Perception A.J. van Doorn, W.A. van de Grind, J.J. Koenderink, 2020-01-29 This book presents an analysis of limits

in perception from the vantage point of the physicist the engineer the psychophysicist the psychologist and the theorist

Limits in perception find their causal explanation at many logically and or physically different levels Some of the most fundamental bottlenecks are due to the quantum mechanical and atomistic structure of the microworld Other simple constraints are due to the material constitution of sensory organs For instance the fact that the eye is predominantly composed of water limits both the optical quality and the available spectral window The engineer uses knowledge on such limits to design equipment that optimizes human performance in daily life Examples include room acoustics and visual displays Psychophysicists and psychologists deal with limits on a quite different logical level These limits constrain much of our perceptually guided behaviour The book includes chapters on such topics as movement perception binocular vision illusory phenomena language and perception the perception of time A few concluding chapters on fundamental limits imposed by information theoretical constraints on the coding and representation of sensed structure are included Limits in Perception will be important reading material for scientists and or engineers in the following fields perception experimental psychology sensory biology physics neuroscience human engineering artificial intelligence robotics ophthalmology audiology psychonomics and ergonomics remote sensing The Oxford Compendium of Visual Illusions Arthur Gilman Shapiro, Dejan Todorović, 2017 Visual illusions are compelling phenomena that draw attention to the brain's capacity to construct our perceptual world The Compendium is a collection of over 100 chapters on visual illusions written by the illusion creators or by vision scientists who have investigated mechanisms underlying the phenomena

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