A Primer of Signal Detection Theory

D. McNicol

With a New Foreword by
Brian C. J. Moore

A Primer Of Signal Detection Theory

Rattihalli N. Malatesha,Lawrence C. Hartlage

A Primer Of Signal Detection Theory:

A Primer of Signal Detection Theory D. MacNicol,1972   **A Primer of Signal Detection Theory** Don McNicol,2005-01-15 A Primer of Signal Detection Theory is being reprinted to fill the gap in literature on Signal Detection Theory a theory that is still important in psychology hearing vision audiology and related subjects This book is intended to present the methods of Signal Detection Theory to a person with a basic mathematical background It assumes knowledge only of elementary algebra and elementary statistics Symbols and terminology are kept at a basic level so that the eventual and hoped for transfer to a more advanced text will be accomplished as easily as possible Intended for undergraduate students at an introductory level the book is divided into two sections The first part introduces the basic ideas of detection theory and its fundamental measures Its aim is to enable the reader to be able to understand and compute these measures It concludes with a detailed analysis of a typical experiment and a discussion of some of the problems which can arise for the potential user of detection theory The second section considers three more advanced topics threshold theory the extension of detection theory and an examination of Thurstonian scaling procedures   A Primer of Signal Detection Theory ,2012

Elementary Signal Detection Theory Thomas D. Wickens,2002 Detection theory has been applied to a host of varied problems for example measuring the accuracy of diagnostic systems or reliability of lie detection tests and extends far beyond the detection of signals This book is a primer on the subject   An Introduction to the Psychology of Hearing Brian C. J. Moore,2012 This sixth edition has been thoroughly updated with more than 200 references to articles books published since 1996 The book describes the relationships between the characteristics of the sounds that enter the ear the sensations that they produce   **A Handbook for Data Analysis in the Behaviorial Sciences** Gideon Keren,Charles Lewis,2014-01-14 Statistical methodology is often conceived by social scientists in a technical manner they use it for support rather than for illumination This two volume set attempts to provide some partial remedy to the problems that have led to this state of affairs Both traditional issues such as analysis of variance and the general linear model as well as more novel methods like exploratory data analysis are included The editors aim to provide an updated survey on different aspects of empirical research and data analysis facilitate the understanding of the internal logic underlying different methods and provide novel and broader perspectives beyond what is usually covered in traditional curricula   **Signal Detection Theory and ROC-analysis** James P. Egan,1975   **Human Factors in the U.S. Railroad Industry** Thomas G. Raslear,2025-03-13 At the heart of the U S Railroad Industry are human operators who continue to make it work and operate However humans are susceptible to error fatigue and risky behaviors Understanding how these impact the safety of the industry remains a crucial topic to be studied Human Factors in the U S Railroad Industry investigates the human factor behind one of the world s biggest railway networks and synthesizes the body of research that has been produced by the Federal Railroad Administration FRA on Human Factors in the Railroad industry since 1993 During that time over 120 FRA reports were

published on topics such as accident analysis grade crossing safety and trespassing working conditions and ergonomics employee fatigue safety culture and track inspection This book organizes this body of work into topic areas that correspond to Moray s Sociotechnical System 2006 to provide a comprehensive way to understand the relationship between policy organizational culture and system safety It discusses tools such as risk exposure signal detection theory and program evaluation that have been applied to railroad projects and can be used to improve future railroad and transportation research It provides a synthesis of the reports across topic areas such as fatigue ergonomics and safety culture that are currently important within the wider human factors transportation research community The reader will develop an understanding of a human centered systems approach to the railroad industry which focuses on human capabilities and limitations with respect to human system interfaces operations system integration and organizational influences on safety Human Factors in the U S Railroad Industry will appeal to researchers academics students and professionals interested in human factors railway engineering civil engineering and industrial engineering   Neuropsychology and Cognition - Volumes I & II Rattihalli N. Malatesha,Lawrence C. Hartlage,1988-01-14 Proceedings of the NATO Advanced Study Institute Augusta Georgia September 8 18 1980   *Signal Detection Theory and Psychophysics* David M. Green,John A. Swets,1966   *Advances in the Study of Behavior* H. Jane Brockmann,Peter J.B. Slater,Charles T. Snowdon,Timothy J. Roper,Marc Naguib,Katherine E. Wynne-Edwards,2006-12-14 The aim of Advances in the Study of Behavior is to serve scientists engaged in the study of animal behavior including psychologists neuroscientists biologists ethologists pharmacologists endocrinologists ecologists and geneticists Articles in the series present critical reviews of significant research programs with theoretical syntheses reformulation of persistent problems and or highlighting new and exciting research concepts Advances in the Study of Behavior is now available online at ScienceDirect full text online of volumes 30 onwards Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important compliment to primary research Digital delivery ensures users reliable 24 hour access to the latest peer reviewed content The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier s extensive researcher network For more information about the Elsevier Book Series on ScienceDirect Program please visit http www info sciencedirect com bookseries Published continuously since 1965 Multidisciplinary across social and life science subject areas Volume 36 addresses current themes in animal behavior   **Neuropathology of Drug Addictions and Substance Misuse Volume 2** Victor R Preedy,2016-03-25 Neuropathology of Drug Addictions and Substance Misuse Volume 2 Stimulants Club and Dissociative Drugs Hallucinogens Steroids Inhalants and International Aspects is the second of three volumes in this informative series and offers a comprehensive examination of the adverse consequences of the most common drugs of abuse Each volume serves to update the reader s knowledge on the broader field of addiction as well as to deepen understanding of specific addictive substances Volume 2 addresses stimulants club and

dissociative drugs hallucinogens and inhalants and solvents Each section provides data on the general molecular and cellular and structural and functional neurological aspects of a given substance with a focus on the adverse consequences of addictions Research shows that the neuropathological features of one addiction are often applicable to those of others and understanding these commonalties provides a platform for studying specific addictions in more depth and may ultimately lead researchers toward new modes of understanding causation prevention and treatment However marshalling data on the complex relationships between addictions is difficult due to the myriad material and substances Offers a modern approach to understanding the pathology of substances of abuse offering an evidence based ethos for understanding the neurology of addictions Fills an existing gap in the literature by serving as a one stop shopping synopsis of everything to do with the neuropathology of drugs of addiction and substance misuse Includes in each chapter list of abbreviations abstract introduction applications to other addictions and substance misuse mini dictionary of terms summary points 6 figures and tables and full references Offers coverage of preclinical clinical and population studies from the cell to whole organs and from the genome to whole body   **Intelligence Analysis** National Research Council,Division of Behavioral and Social Sciences and Education,Board on Behavioral, Cognitive, and Sensory Sciences,Committee on Behavioral and Social Science Research to Improve Intelligence Analysis for National Security,2011-03-08 The U S intelligence community IC is a complex human enterprise whose success depends on how well the people in it perform their work Although often aided by sophisticated technologies these people ultimately rely on their own intellect to identify synthesize and communicate the information on which the nation s security depends The IC s success depends on having trained motivated and thoughtful people working within organizations able to understand value and coordinate their capabilities Intelligence Analysis provides up to date scientific guidance for the intelligence community IC so that it might improve individual and group judgments communication between analysts and analytic processes The papers in this volume provide the detailed evidentiary base for the National Research Council s report Intelligence Analysis for Tomorrow Advances from the Behavioral and Social Sciences The opening chapter focuses on the structure missions operations and characteristics of the IC while the following 12 papers provide in depth reviews of key topics in three areas analytic methods analysts and organizations Informed by the IC s unique missions and constraints each paper documents the latest advancements of the relevant science and is a stand alone resource for the IC s leadership and workforce The collection allows readers to focus on one area of interest analytic methods analysts or organizations or even one particular aspect of a category As a collection the volume provides a broad perspective of the issues involved in making difficult decisions which is at the heart of intelligence analysis   Detection Theory Neil A. Macmillan,C. Douglas Creelman,1991-01-25   **Signal Detection Theory and ROC-analysis** James P. Egan,1975   *Revue de L'Association Des Humanités* Humanities Association of Canada,1973   **Perception** ,1993   **Handbook of Research Methods in Human Memory and Cognition** C. Richard Puff,1982   *Journal of Speech and Hearing Research*

,1996 **Healthy Buildings '88 : CIB Conference, Stockholm, Sept. 5 - 8, 1988. 3. Systems, materials and policies for healthier indoor air** Birgitta Berglund,1988

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