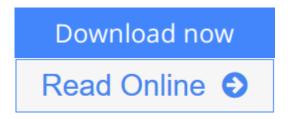


Detection Theory: A User's Guide

By Neil A. Macmillan, C. Douglas Creelman



Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman

Detection Theory is an introduction to one of the most important tools for analysis of data where choices must be made and performance is not perfect. Originally developed for evaluation of electronic detection, detection theory was adopted by psychologists as a way to understand sensory decision making, then embraced by students of human memory. It has since been utilized in areas as diverse as animal behavior and X-ray diagnosis.

This book covers the basic principles of detection theory, with separate initial chapters on measuring detection and evaluating decision criteria. Some other features include:

- *complete tools for application, including flowcharts, tables, pointers, and software;
- *student-friendly language;
- *complete coverage of content area, including both one-dimensional and multidimensional models;
- *separate, systematic coverage of sensitivity and response bias measurement;
- *integrated treatment of threshold and nonparametric approaches;
- *an organized, tutorial level introduction to multidimensional detection theory;
- *popular discrimination paradigms presented as applications of multidimensional detection theory; and
- *a new chapter on ideal observers and an updated chapter on adaptive threshold measurement.

This up-to-date summary of signal detection theory is both a self-contained reference work for users and a readable text for graduate students and other researchers learning the material either in courses or on their own.



Download Detection Theory: A User's Guide ...pdf



Read Online Detection Theory: A User's Guide ...pdf

Detection Theory: A User's Guide

By Neil A. Macmillan, C. Douglas Creelman

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman

Detection Theory is an introduction to one of the most important tools for analysis of data where choices must be made and performance is not perfect. Originally developed for evaluation of electronic detection, detection theory was adopted by psychologists as a way to understand sensory decision making, then embraced by students of human memory. It has since been utilized in areas as diverse as animal behavior and X-ray diagnosis.

This book covers the basic principles of detection theory, with separate initial chapters on measuring detection and evaluating decision criteria. Some other features include:

- *complete tools for application, including flowcharts, tables, pointers, and software;
- *student-friendly language;
- *complete coverage of content area, including both one-dimensional and multidimensional models;
- *separate, systematic coverage of sensitivity and response bias measurement;
- *integrated treatment of threshold and nonparametric approaches;
- *an organized, tutorial level introduction to multidimensional detection theory;
- *popular discrimination paradigms presented as applications of multidimensional detection theory; and
- *a new chapter on ideal observers and an updated chapter on adaptive threshold measurement.

This up-to-date summary of signal detection theory is both a self-contained reference work for users and a readable text for graduate students and other researchers learning the material either in courses or on their own.

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman Bibliography

Sales Rank: #1077076 in BooksBrand: Brand: Psychology Press

Published on: 2004-08-25Original language: English

• Number of items: 1

• Dimensions: 9.00" h x 1.16" w x 6.00" l, 1.52 pounds

• Binding: Paperback

• 512 pages





Download and Read Free Online Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman

Editorial Review

Review

"For the last many years I have been suggesting Macmillan and Creelman to those who ask me for a reference to detection theory. It is an excellent book and has proved useful to a wide variety of behavioral scientists who need detection theory as a tool. I am delighted to have this new edition to recommend, an edition which includes material that should make it of use to still more investigators. The new information about multidimensional signal-detection theory allows analysis of more complex experimental designs and, even more importantly from my perspective, analysis of situations where there are multiple detectors, or channels, or pathways."

?Norma Graham

Department of Psychology, Columbia University

"Rarely, I believe, has a book so fine in its first edition been as enhanced in its second. It continues to serve handsomely as a handbook, neatly laying out practically everything an experimenter needs in order to select from and apply a wide range of methods and measures. Its purpose as a textbook has been notably advanced: for example, early chapters on basic detection theory and alternatives are reorganized to make fundamental ideas more accessible and the later material on complex stimuli and methods is integrated by a tutorial treatment of recent developments in multidimensional detection theory. This volume's friendliness to the reader, and its broad coverage and considerable sophistication (do see the "essays"), make it highly suitable for the student and very likely informative even for the experienced investigator."

?John Swets

BBN Technologies--Chief Scientist (emeritus), Harvard Medical School--Lecturer o

Users Review

From reader reviews:

Cheryl Waller:

Book is to be different per grade. Book for children until finally adult are different content. As it is known to us that book is very important for people. The book Detection Theory: A User's Guide has been making you to know about other understanding and of course you can take more information. It is quite advantages for you. The book Detection Theory: A User's Guide is not only giving you more new information but also to get your friend when you really feel bored. You can spend your spend time to read your e-book. Try to make relationship while using book Detection Theory: A User's Guide. You never feel lose out for everything should you read some books.

Syble Mills:

This book untitled Detection Theory: A User's Guide to be one of several books that best seller in this year, that's because when you read this guide you can get a lot of benefit on it. You will easily to buy this particular book in the book retailer or you can order it by using online. The publisher of the book sells the e-book too. It makes you quicker to read this book, as you can read this book in your Mobile phone. So there is no reason to your account to past this guide from your list.

Linda Cooper:

Reading can called thoughts hangout, why? Because if you are reading a book mainly book entitled Detection Theory: A User's Guide your brain will drift away trough every dimension, wandering in each and every aspect that maybe unknown for but surely will become your mind friends. Imaging just about every word written in a e-book then become one type conclusion and explanation that maybe you never get ahead of. The Detection Theory: A User's Guide giving you yet another experience more than blown away the mind but also giving you useful information for your better life in this era. So now let us show you the relaxing pattern the following is your body and mind will be pleased when you are finished studying it, like winning a sport. Do you want to try this extraordinary paying spare time activity?

Anthony Malloy:

Reading a book for being new life style in this 12 months; every people loves to study a book. When you study a book you can get a large amount of benefit. When you read publications, you can improve your knowledge, because book has a lot of information on it. The information that you will get depend on what kinds of book that you have read. If you need to get information about your study, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, such us novel, comics, and soon. The Detection Theory: A User's Guide will give you new experience in reading a book.

Download and Read Online Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman #U69KOIMT5W2

Read Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman for online ebook

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman books to read online.

Online Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman ebook PDF download

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman Doc

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman Mobipocket

Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman EPub

U69KOIMT5W2: Detection Theory: A User's Guide By Neil A. Macmillan, C. Douglas Creelman