Introduction to Modern Nonparametric Statistics

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Introduction To Modern Nonparametric Statistics

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Introduction To Modern Nonparametric Statistics:

  An Introduction to Modern Nonparametric Statistics James J. Higgins,2004 Guided by problems that frequently arise in actual practice James Higgins book presents a wide array of nonparametric methods of data analysis that researchers will find useful It discusses a variety of nonparametric methods and wherever possible stresses the connection between methods For instance rank tests are introduced as special cases of permutation tests applied to ranks The author provides coverage of topics not often found in nonparametric textbooks including procedures for multivariate data multiple regression multi factor analysis of variance survival data and curve smoothing This truly modern approach teaches non majors how to analyze and interpret data with nonparametric procedures using today s computing technology   Studyguide for Introduction to Modern Nonparametric Statistics by Higgins, James J., ISBN 9780534387754 Cram101 Textbook Reviews,2014-07-31 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780534387754 This item is printed on demand   *Applied Nonparametric Statistical Methods* Nigel Smeeton,Neil Spencer,Peter Sprent,2025-03-31 Nonparametric statistical methods minimize the number of assumptions that need to be made about the distribution of data being analysed unlike classical parametric methods As such they are an essential part of a statistician s armoury and this book is an essential resource in their application Starting from the basics of statistics it takes the reader through the main nonparametric approaches with an emphasis on carefully explained examples backed up by use of the R programming language Key features of this fully revised and extended fifth edition include the following An introductory chapter that provides a gentle introduction to the basics of statistics including types of data hypothesis testing confidence intervals and ethical issues An R package containing functions that have been written for the examples in the text and the exercises Summary bullet points at the end of each section to enable the reader to locate important principles quickly A case study from medical research to demonstrate nonparametric approaches to the data analysis Examples fully integrated into the text drawn from published research on contemporary issues with more detail given in their explanation Extensive exercises along with complete solutions that allow the reader to test their understanding of the material Articles used in the examples and exercises carefully chosen to enable readers to identify up to date literature in their field for research publications and teaching material Numerous historical references throughout the text from which to explore the origins of nonparametric methods Applied Nonparametric Statistical Methods Fifth Edition is a comprehensive course text in nonparametric techniques suitable for undergraduate students of mathematics and statistics It assumes only basic previous experience of statistics and with algebra kept to a minimum it is also ideal for quantitative methods modules delivered to undergraduate or postgraduate students in science business and health service training It is an invaluable resource for researchers medical

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appetite assessment estimating sample size economic analysis using DRIs to assess intake and creating consumer research nutrition messages This book is invaluable for practicing professionals and students   **Nonparametric Statistics for Non-Statisticians** Gregory W. Corder,Dale I. Foreman,2009-05-26 A practical and understandable approach to nonparametric statistics for researchers across diverse areas of study As the importance of nonparametric methods in modern statistics continues to grow these techniques are being increasingly applied to experimental designs across various fields of study However researchers are not always properly equipped with the knowledge to correctly apply these methods Nonparametric Statistics for Non Statisticians A Step by Step Approach fills a void in the current literature by addressing nonparametric statistics in a manner that is easily accessible for readers with a background in the social behavioral biological and physical sciences Each chapter follows the same comprehensive format beginning with a general introduction to the particular topic and a list of main learning objectives A nonparametric procedure is then presented and accompanied by context based examples that are outlined in a step by step fashion Next SPSS screen captures are used to demonstrate how to perform and recognize the steps in the various procedures Finally the authors identify and briefly describe actual examples of corresponding nonparametric tests from diverse fields Using this organized structure the book outlines essential skills for the application of nonparametric statistical methods including how to Test data for normality and randomness Use the Wilcoxon signed rank test to compare two related samples Apply the Mann Whitney U test to compare two unrelated samples Compare more than two related samples using the Friedman test Employ the Kruskal Wallis H test to compare more than two unrelated samples Compare variables of ordinal or dichotomous scales Test for nominal scale data A detailed appendix provides guidance on inputting and analyzing the presented data using SPSS and supplemental tables of critical values are provided In addition the book s FTP site houses supplemental data sets and solutions for further practice Extensively classroom tested Nonparametric Statistics for Non Statisticians is an ideal book for courses on nonparametric statistics at the upper undergraduate and graduate levels It is also an excellent reference for professionals and researchers in the social behavioral and health sciences who seek a review of nonparametric methods and relevant applications   **A SAS Companion for Nonparametric Statistics** Scott J. Richter,James J. Higgins,2006 Need a guide to using SAS to carry out non parametric analysis SAS COMPANION FOR NONPARAMETRIC STATISTICS provides an excellent knowlege base and provides examples you can use to practice using the program All SAS examples presented are self contained and can be entered into SAS as they appear and executed Thus you don t have to deal with issues of creating SAS data sets before using the programs In addition to presenting the SAS code to obtain various nonparametric analyses brief introductions to the methods themselves are provided Particular attention is given to how SAS calculates the results it presents   **Technometrics** ,2004   **Elementary Survey Sampling** Richard L. Scheaffer,William Mendenhall,Lyman Ott,2006 Accompanying CD ROM contains data files for the exercises and activities related to the large data sets in the Appendix as

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