## Discovering Statistics Using Spss Introducing Statistical Methods Series

Discovering Statistics Using Spss Introducing Statistical Methods Series Unveiling Datas Secrets A Beginners Guide to Statistical Analysis with SPSS Part 1 Welcome to the exciting world of data analysis Whether youre a student embarking on your research journey a professional seeking to make datadriven decisions or simply curious about the power of statistics this series is designed to guide you through the fundamentals of statistical analysis using SPSS Why SPSS SPSS Statistical Package for the Social Sciences is a widely used statistical software package that offers a userfriendly interface and powerful analytical tools Its an indispensable tool for researchers across various disciplines including psychology education healthcare business and more Part 1 Laying the Foundation Essential Concepts and Terminology Before diving into SPSS lets equip ourselves with some fundamental statistical concepts 1 Variables and Data Types Variables Characteristics or attributes that can vary among individuals at units of observation Data Types Quantitative Numeric add at representing measurable quantities eg age beight income Qualitative Categorical data describing attributes or qualitities eg gender marital status on inherent order eg colors types of fruit Ordinal Categories with a meaningful order but unequal intervals eq education level satisfaction ratings Interval Numeric scale with equal intervals and an absolute zero eg beight weight 2 3 Descriptive Statistics Summarize and describe key features of your data Measures of Central Tendency Represent typical or central values Mean Average of all values Median Middle value when data is ordered Mode Most frequent value Measures of Variability Describe how spread out the data is Range Difference between highest and lowest values Variance Average squared deviation from the mean Standard Deviation Square root of the variance 4 Inferential Statistics Make inferences about a population based on a sample Hypothesis Testing Used to determine if theres enough evidence to reject a nu

Discovering Statistics Using SPSSDiscovering Statistics Using SPSS for WindowsIntroduction to Statistics with SPSS for Social ScienceAn Introduction to Statistics in Human PerformanceAn Introduction to Statistics with SPSSIntroduction to Statistics and SPSS in PsychologyIntroduction to Statistics in Human PerformanceAn Introduction to Secondary Data Analysis with IBM SPSS Statistics Using Statistics: A Gentle IntroductionPresenting Medical Statistics from Proposal to PublicationIntroducing Statistics for Social ResearchIBM SPSS Statistics 19 Made SimpleIntroduction to SPSS in PsychologyNonparametric Statistics for Non-StatisticiansPresenting Your Data with SPSS ExplainedComputer Application in Economic Analysis A Guide to R for Social and Behavioral Science StatisticsIntroduction to business statistics Andy Field Andy P. Field Faiza Qureshi Debbie L. Hahs-Vaughn Dale Mood Kieth A.

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in this brilliant new edition andy field has introduced important new introductory material on statistics that the student will need and was missing at least in the first edition this book is the best blend that i know of a textbook in statistics and a manual on spss it is a balanced composite of both topics using spss to illustrate important statistical material and through graphics to make visible important approaches to data analysis there are many places in the book where i had to laugh and that s saying a lot for a book on statistics his excellent style engages the reader and makes reading about statistics fun david c howell professor emeritus university of vermont usa this award winning text now fully updated with spss statistics is the only book on statistics that you will need fully revised and restructured this new edition is even more accessible as it now takes students through from introductory to advanced level concepts all the while grounding knowledge through the use of spss statistics andy field s humorous and self deprecating style and the book s host of characters make the journey entertaining as well as educational while still providing a very comprehensive collection of statistical methods tests and procedures and packed with examples and self assessment tests to reinforce knowledge the new edition now also offers a more gentle introduction to basic level concepts and methods for beginners new textbook features to make the book more user friendly for those learning about more advanced concepts encouraging critical thinking a brand new full colour design making it easy for students to navigate between topics and to understand how to use the latest version of spss statistics both real world the bizarre and the wonderful and invented examples illustrate the concepts and make the techniques come alive for students an additional chapter on multilevel modelling for advanced level students reinforced binding to make the book easier to handle at a computer workstation the book also includes access to

andy field draws on his experience of teaching advanced statistics to extend existing spss windows texts to a higher level he covers anova manova logistic regression comparing means tests and factor analysis

this is a complete guide to statistics and spss for social science students statistics with spss for social science provides a step by step explanation of all the important statistical concepts tests and procedures it is also a guide to getting started with spss and includes screenshots to illustrate explanations with examples specific to social sciences this text is essential for any student in this area

the new edition of an introduction to statistical concepts is designed to help students really understand statistical concepts the situations in which they can be used and how to apply them to data hahs vaughn and lomax discuss the most popular along with many of the lesser known procedures and models whilst also exploring nonparametric procedures used when standard assumptions are violated they provide in depth coverage of testing assumptions and highlight several online tools for computing statistics e g effect sizes and their confidence intervals and power this comprehensive flexible and accessible text includes a new chapter on mediation and moderation expanded coverage of effect sizes and discussions of sensitivity specificity false positive and false negative along with using the receiver operator characteristic roc curve in addition to instructions and screen shots for using spss new to this edition is annotated script for using r this book noted for its crystal clear explanations and its inclusion of only the most crucial equations is an invaluable resource for students undertaking a course in statistics in any number of social science and behavioral disciplines from education business communication exercise science psychology sociology and more

an understanding and working knowledge of the basic principles of statistics are of central importance in understanding the sport and health sciences introduction to statistics in human performance using spss and r provides students facing statistical problems for the first time with an accessible and informal introduction to the key concepts and procedures of statistical analysis now in its second edition the book covers processes involved in using both spss and r and includes chapters on research methods descriptive statistics the normal curve and standard scores correlation and regression inferential statistics introduction issues in inferential statistics t tests anova factorial anova and manova advanced statistics and nonparametric statistics including examples relevant to the field review questions practice computer problems and activities throughout and online materials including step by step video guides data tables for importing into computer activities a bank of possible test questions and powerpoint slides the book offers students all the tools they need to understand statistical concepts in sport and exercise this is a vital resource for any students of sport and exercise science kinesiology physical therapy athletic training and fitness and health taking classes in statistics

this updated and reorganized third edition of this textbook takes a workbook style approach that encourages an active approach to learning statistics carefully placed reading questions throughout each chapter allow students to apply their knowledge right away while in depth activities based on current behavioral science scenarios each with problem sets and quiz questions give students the opportunity to assess their understanding of concepts while reading detailed explanations of more complex statistical

concepts additional practice problems further solidify student learning most activities are self correcting so if a concept is misunderstanding is corrected early in the learning process after working through each chapter students are far more likely to understand the material than when they only read the material

introduction to statistics with spss offers an introduction to statistics that can be used before during or after a course on statistics covering a wide range of terms and techniques including simple and multiple regressions this book guides the student to enter data from a simple research project into a computer provide an adequate analysis of the data and present a report on the findings

an interactive guide to statistics this text takes readers on a journey through their degree course from beginning to end

our goal is to give readers the knowledge and skill to use statistics effectively in their professional lives and feel comfortable doing so from the preface this new textbook by two renowned authors with many years of teaching experience provides a sound overview of statistical procedures and introduction to the basics of statistical analyses an informal perspective that enables students to read interpret and use statistics directly related to their chosen careers in the kinesiology field e g exercise physiology physical therapy medicine personal training nurse practitioner physician s assistant and more relevant examples review questions practice problems and spss activities which help to make the material understandable and interesting a student website with videos interactive concept reviews image bank and powerpoint slides offers students the tools they need to understand the statistical concepts and learn at their own pace

many professional high quality surveys collect data on people s behaviour experiences lifestyles and attitudes the data they produce is more accessible than ever before this book provides students with a comprehensive introduction to using this data as well as transactional data and big data sources in their own research projects here you will find all you need to know about locating accessing preparing and analysing secondary data along with step by step instructions for using ibm spss statistics you will learn how to create a robust research question and design that suits secondary analysis locate access and explore data online understand data documentation check and clean secondary data manage and analyse your data to produce meaningful results replicate analyses of data in published articles and books using case studies and video animations to illustrate each step of your research this book provides you with the quantitative analysis skills you ll need to pass your course complete your research project and compete in the job market exercises throughout the book and on the book s companion website give you an opportunity to practice check your understanding and work hands on with real data as you re learning

an introduction to statistics covers the concepts measurement theory descriptive statistics knowlege reprensentation probability theory correlations and parametric statistics

designed for researchers presenting medical statistics for publication this guide emphasises the principles of good presentation through examples it contains tips information boxes and figures as well as references for the statistical methods used it also presents the different stages of the research process

this introductory textbook describes when to apply and how to calculate a wide selection of statistical procedures commonly used in the social sciences it aims to serve as a statistics text for first and second year social science students

this new edition of one of the most widely read textbooks in its field introduces the reader to data analysis with the most powerful and versatile statistical package on the market ibm spss statistics 19 each new release of spss statistics features new options and other improvements there remains a core of fundamental operating principles and techniques which have continued to apply to all releases issued in recent years and have been proved to be worth communicating in a small volume this practical and informal book combines simplicity and clarity of presentation with a comprehensive treatment of the use of ibm spss statistics 19 for the description exploration and confirmation of data as in earlier editions coverage has been extended to address the issues raised by readers since the previous edition in this edition there is an introduction to the analysis of covariance ancova each statistical technique is presented in a realistic research context and is fully illustrated with annotated screen shots of spss dialog boxes and output the first chapter sets the scene with a survey of typical research situations key terms and clear signposts to the location of each technique in the book it also offers guidance on the choice of statistical techniques and advice based on the american psychological association s guidelines on how to report the results of a statistical analysis the next chapters introduce the reader to the use of spss beginning with the entry description and exploration of data there is also a full description of the capabilities of the versatile chart builder each of the remaining chapters concentrates on one particular kind of research situation and the statistical techniques that are appropriate in summary ibm spss statistics 19 made simple gets you started with spss

shows you how to describe and explore a data set with the help of spss s extensive graphics and data handling menus helps you to choose appropriate statistical techniques warns you of pitfalls arising from the misuse of statistics shows you how to report the results of a statistical analysis shows you how to use syntax to implement some useful procedures and operations introduces the reader to the analysis of covariance ancova has a comprehensive glossary is now presented in an attractive two colour format the book s accompanying website contains datasets for the chapters of the book as well as a large body of exercises with data sets and notes on statistical terms instructor resources include a powerpoint lecture course and multiple choice question tests which are also available free of charge to lecturers adopting the book and their students please visit psypress com spss made simple for more details

introduction to spss in psychology 7th edition is the essential step by step guide to spss for students taking their first course in statistics this well established text provides a clear and comprehensive coverage of how to carry out statistical analyses using spss full colour spss screenshots clear explanation and a wide ranging coverage make it the perfect companion for students who want to be able to analyse data with confidence

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 wariables 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 nonparametric methods and relevant applications

data presentation with spss explained provides students with all the information they need to conduct small scale analysis of research projects using spss and present their results appropriately in their reports quantitative data can be collected in the form of a questionnaire survey or experimental study this book focuses on presenting this data clearly in the form of tables and graphs along with creating basic summary statistics data presentation with spss explained uses an example survey that is clearly explained step by step throughout the book this allows readers to follow the procedures and easily apply each step in the process to their own research and findings no prior knowledge of statistics or spss is assumed and everything in the book is carefully explained in a helpful and user friendly way using worked examples this book is the perfect companion for students from a range of disciplines including psychology business communication education health humanities marketing and nursing many of whom are unaware that this extremely helpful program is available at their institution for their use

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