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**Applied Statistical Inference with MINITAB®** Feb 18 2020 Through clear, step-by-step mathematical calculations, Applied Statistical Inference with MINITAB enables students to gain a solid understanding of how to apply statistical techniques using a statistical software program. It focuses on the concepts of confidence intervals, hypothesis testing, validating model assumptions, and power analysis. Illustrates the techniques and methods using MINITAB After introducing some common terminology, the author explains how to create simple graphs using MINITAB and how to calculate descriptive statistics using both traditional hand computations and MINITAB. She then delves into statistical inference topics, such as confidence intervals and hypothesis testing, as well as linear regression, including the Ryan–Joiner test. Moving on to multiple regression analysis, the text addresses ANOVA, the issue of multicollinearity, assessing outliers, and more. It also provides a conceptual introduction to basic experimental design and one-way ANOVA. The final chapter discusses two-way ANOVA, nonparametric analyses, and time series analysis. Establishes a foundation for studying more complex topics Ideal for students in the social sciences, this text shows how to implement basic inferential techniques in practice using MINITAB. It establishes the foundation for students to build on work in more advanced inferential statistics.

**Simple Statistical Methods for Software Engineering** Apr 21 2020 Although there are countless books on statistics, few are dedicated to the application of statistical methods to software engineering. Simple Statistical Methods for Software Engineering: Data and Patterns fills that void. Instead of delving into overly complex statistics, the book details simpler solutions that are just as effective and connect with the intuition of problem solvers. Sharing valuable insights into software engineering problems and solutions, the book not only explains the required statistical methods, but also provides many examples, review questions, and case studies that provide the understanding required to apply those methods to real-world problems. After reading this book, practitioners will possess the confidence and understanding to solve day-to-day problems in quality, measurement, performance, and benchmarking. By following the examples and case studies, students will be better prepared able to achieve seamless transition from academic study to industry practices. Includes boxed stories, case studies, and illustrations that demonstrate the nuances behind proper application Supplies historical anecdotes and traces statistical methods to inventors and gurus Applies basic statistical laws in their simplest forms to resolve engineering problems Provides simple techniques for addressing the issues software engineers face The book starts off by reviewing the essential facts about data. Next, it supplies a detailed review and summary of metrics, including development, maintenance, test, and agile metrics. The third section covers the fundamental laws of probability and statistics and the final section presents special data patterns in the form of tailed mathematical distributions. In addition to selecting simpler and more flexible tools, the authors have also simplified several standard techniques to provide you with the set of intellectual tools all software engineers and managers require.

**CliffsNotes Statistics Quick Review, 2nd Edition** May 03 2021 Inside the Book: Graphic displays Numerical measures Probability Sampling Principles of testing Univariate inferential tests Bivariate relationships Review questions Resource center Glossary Common mistakes Tables Why CliffsNotes? Go with the name you know and trust Get the information you need-fast! CliffsNotes Quick Review guides give you a clear, concise, easy-to-use review of the basics. Introducing each topic, defining key terms, and carefully walking you through sample problems, this guide helps you grasp and understand the important concepts needed to succeed. Access 500 additional practice questions at [www.cliffsnotes.com/go/quiz/statistics](http://www.cliffsnotes.com/go/quiz/statistics) Master the Basics–Fast Complete coverage of core concepts Easy topic-by-topic organization Access hundreds of practice problems at [www.cliffsnotes.com/go/quiz/statistics](http://www.cliffsnotes.com/go/quiz/statistics)

**Introduction to Statistical Methods for Biosurveillance** Jul 05 2021 Bioterrorism is not a new threat, but in an increasingly interconnected world, the potential for catastrophic outcomes is greater today than ever. The medical and public health communities are establishing biosurveillance systems designed to proactively monitor populations for possible disease outbreaks as a first line of defense. The ideal biosurveillance system should identify trends not visible to individual physicians and clinicians in near-real time. Many of these systems use statistical algorithms to look for anomalies and to trigger epidemiologic investigation, quantification, localization and outbreak management. This book discusses the design and evaluation of statistical methods for effective biosurveillance for readers with minimal statistical training. Weaving public health and statistics together, it presents basic and more advanced methods, with a focus on empirically demonstrating added value. Although the emphasis is on epidemiologic and syndromic surveillance, the statistical methods can be applied to a broad class of public health surveillance problems.

**Statistics for Business & Economics** Jun 04 2021 Drawing from the authors' unmatched experience as professors and consultants, STATISTICS FOR BUSINESS AND ECONOMICS, 13E delivers sound statistical methodology, a proven problem-scenario approach, and meaningful applications that clearly demonstrate how statistical information informs decisions in actual business practice. Completely up to date, more than 350 real business examples, 33 cases, and hands-on exercises present the latest statistical data and business information with unwavering accuracy. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Numerical Issues in Statistical Computing for the Social Scientist** Nov 28 2020 At last—a social scientist's guide through the pitfalls of modern statistical computing Addressing the current deficiency in the literature on statistical methods as they apply to the social and behavioral sciences, Numerical Issues in Statistical Computing for the Social Scientist seeks to provide readers with a unique practical guidebook to the numerical methods underlying computerized statistical calculations specific to these fields. The authors demonstrate that knowledge of these numerical methods and how they are used in statistical packages is essential for making accurate inferences. With the aid of key contributors from both the social and behavioral sciences, the authors have assembled a rich set of interrelated chapters designed to guide empirical social scientists through the potential minefield of modern statistical computing. Uniquely accessible and abounding in modern-day tools, tricks, and advice, the text successfully bridges the gap between the current level of social science methodology and the more sophisticated technical coverage usually associated with the statistical field. Highlights include: A focus on problems occurring in maximum likelihood estimation Integrated examples of statistical computing (using software packages such as the SAS, Gauss, Splus, R, Stata, LIMDEP, SPSS, WinBUGS, and MATLAB®) A guide to choosing accurate statistical packages Discussions of a multitude of computationally intensive statistical approaches such as ecological inference, Markov chain Monte Carlo, and spatial regression analysis Emphasis on specific numerical problems, statistical procedures, and their applications in the field Replications and re-analysis of published social science research, using innovative numerical methods Key

numerical estimation issues along with the means of avoiding common pitfalls A related Web site includes test data for use in demonstrating numerical problems, code for applying the original methods described in the book, and an online bibliography of Web resources for the statistical computation Designed as an independent research tool, a professional reference, or a classroom supplement, the book presents a well-thought-out treatment of a complex and multifaceted field.

**Business Statistics** Mar 21 2020

*Forensic Analytics* Oct 28 2020 Discover how to detect fraud, biases, or errors in your data using Access or Excel With over 300 images, *Forensic Analytics* reviews and shows how twenty substantive and rigorous tests can be used to detect fraud, errors, estimates, or biases in your data. For each test, the original data is shown with the steps needed to get to the final result. The tests range from high-level data overviews to assess the reasonableness of data, to highly focused tests that give small samples of highly suspicious transactions. These tests are relevant to your organization, whether small or large, for profit, nonprofit, or government-related. Demonstrates how to use Access, Excel, and PowerPoint in a forensic setting Explores use of statistical techniques such as Benford's Law, descriptive statistics, correlation, and time-series analysis to detect fraud and errors Discusses the detection of financial statement fraud using various statistical approaches Explains how to score locations, agents, customers, or employees for fraud risk Shows you how to become the data analytics expert in your organization *Forensic Analytics* shows how you can use Microsoft Access and Excel as your primary data interrogation tools to find exceptional, irregular, and anomalous records.

*Analysis of Symbolic Data* Dec 10 2021 This book presents the most recent methods for analyzing and visualizing symbolic data. It generalizes classical methods of exploratory, statistical and graphical data analysis to the case of complex data. Several benchmark examples from National Statistical Offices illustrate the usefulness of the methods. The book contains an extensive bibliography and a subject index.

**Statistics in a Nutshell** Dec 22 2022 A clear and concise introduction and reference for anyone new to the subject of statistics.

*Between Certainty and Uncertainty* Apr 14 2022 „Between Certainty & Uncertainty” is a one-of-a-kind short course on statistics for students, engineers and researchers. It is a fascinating introduction to statistics and probability with notes on historical origins and 80 illustrative numerical examples organized in the five units: · Chapter 1 Descriptive Statistics: Compressing small samples, basic averages - mean and variance, their main properties including God's proof; linear transformations and z-scored statistics . · Chapter 2 Grouped data: Udney Yule's concept of qualitative and quantitative variables. Grouping these two kinds of data. Graphical tools. Combinatorial rules and qualitative variables. Designing frequency histogram. Direct and coded evaluation of quantitative data. Significance of percentiles. · Chapter 3 Regression and correlation: Geometrical distance and equivalent distances in two orthogonal directions as a prerequisite to the concept of two regression lines. Misleading in interpreting two regression lines. Derivation of the two regression lines. Was Hubble right? Hubble's cloud. What in fact measures the correlation coefficient? · Chapter 4 Binomial distribution: Middle ages origins of the binomials; figurate numbers and combinatorial rules. Pascal's Arithmetical Triangle. Bernoulli's or Poisson Trials? John Arbuthnot curing binomials. How Newton taught S. Pepys probability. Jacob Bernoulli's Weak Law of Large Numbers and others. · Chapter 5 Normal distribution and binomial heritage – Tables of the normal distribution. Abraham de Moivre and the second theorem of de Moivre-Laplace. · Chapter 1 Descriptive Statistics: Compressing small samples, basic averages - mean and variance, their main properties including God's proof; linear transformations and z-scored statistics . · Chapter 2 Grouped data: Udney Yule's concept of qualitative and quantitative variables. Grouping these two kinds of data. Graphical tools. Combinatorial rules and qualitative variables. Designing frequency histogram. Direct and coded evaluation of quantitative data. Significance of percentiles. · Chapter 3 Regression and correlation: Geometrical distance and equivalent distances in two orthogonal directions as a prerequisite to the concept of two regression lines. Misleading in interpreting two regression lines. Derivation of the two regression lines. Was Hubble right? Hubble's cloud. What in fact measures the correlation coefficient? · Chapter 4 Binomial distribution: Middle ages origins of the binomials; figurate numbers and combinatorial rules. Pascal's Arithmetical Triangle. Bernoulli's or Poisson Trials? John Arbuthnot curing binomials. How Newton taught S. Pepys probability. Jacob Bernoulli's Weak Law of Large Numbers and others. · Chapter 5 Normal distribution and binomial heritage – Tables of the normal distribution. Abraham de Moivre and the second theorem of de Moivre-Laplace. · Chapter 5 Normal distribution and binomial heritage – Tables of the normal distribution. Abraham de Moivre and the second theorem of de Moivre-Laplace.

**Statistics for Business & Economics, Revised** Apr 02 2021 Get more out of learning statistics than simply the ability to solve equations. Discover how statistical information enables strong decisions in today's business world with STATISTICS FOR BUSINESS AND ECONOMICS, REVISED 13E. Sound methodology combines with a proven problem-scenario approach, and meaningful applications for the most powerful approach to mastering critical statistical concepts. This edition's prestigious author team brings together more than 25 years of unmatched experience to this thoroughly updated book. More than 350 real business examples, timely cases, and memorable exercises present the latest statistical data and business information with unwavering accuracy. To ensure the most relevant coverage, this edition introduces how to use today's most popular commercial statistical software programs, including Minitab 17 and Excel 2016. Trust this edition for the statistics background needed for business success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Research in Health Care** Aug 18 2022 Providing everything the researcher, in a health care setting, needs to know about undertaking and completing a research project, this book provides detailed information about the various types of research projects that might be undertaken.

**Essentials of Modern Business Statistics with Microsoft Excel** Aug 26 2020 Develop a strong conceptual understanding of statistics and its importance in business today with ESSENTIALS OF MODERN BUSINESS STATISTICS WITH MICROSOFT EXCEL, 8E. This best-selling essentials edition balances real-world applications with an integrated focus on the latest version of Microsoft Excel. A clear presentation develops each statistical technique in an application setting. You learn to master statistical methodology with an easy-to-follow presentation of a statistical procedure followed by a discussion of how to use Excel 2019 to perform the procedure. Step-by-step instructions and screen captures reinforce understanding. You also learn to use Excel Online and R. More than 140 new business examples and hundreds of application exercises show how statistics provide insights into today's business decisions and problems. A unique problem-scenario approach and new case problems further demonstrate how to apply statistical methods to practical business situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Multidimensional Nonlinear Descriptive Analysis** Feb 12 2022 Quantification of categorical, or non-numerical, data is a problem that scientists face across a wide range of disciplines. Exploring data analysis in various areas of research, such as the social sciences and biology, *Multidimensional Nonlinear Descriptive Analysis* presents methods for analyzing categorical data that are not necessarily sampled randomly from a normal population and often involve nonlinear relations. This reference not only provides an overview of multidimensional nonlinear descriptive analysis (MUNDA) of discrete data, it also offers new results in a variety of fields. The first part of the book covers conceptual and technical preliminaries needed to understand the data analysis in subsequent chapters. The next two parts contain applications of MUNDA to diverse data types, with each chapter devoted to one type of categorical data, a brief historical comment, and basic skills peculiar to the data types. The final part examines several problems and then concludes with suggestions for future progress. Covering both the early and later years of MUNDA research in the social sciences, psychology, ecology, biology, and statistics, this book provides a framework for potential developments in even more areas of study.

*Learning Statistics with R* Nov 21 2022 "Learning Statistics with R" covers the contents of an introductory statistics class, as typically taught to undergraduate psychology students, focusing on the use of the R statistical software and adopting a light, conversational style throughout. The book discusses how to get started in R, and gives an introduction to data manipulation and writing scripts. From a statistical perspective, the book discusses descriptive statistics and graphing first, followed by chapters on probability theory, sampling and estimation, and null hypothesis testing. After introducing the theory, the book covers the analysis of contingency tables, t-tests, ANOVAs and regression. Bayesian statistics are covered at the end of the book. For more information (and the opportunity to check the book out before you buy!) visit <http://ua.edu.au/ccs/teaching/lsr> or <http://learningstatisticswithr.com>

**Descriptive Statistics Measures of Location & Dispersion** Jul 17 2022

**Introduction to Statistics for Biomedical Engineers** Jun 23 2020 There are many books written about statistics, some brief, some detailed, some humorous, some colorful, and some quite dry. Each of these texts is designed for a

specific audience. Too often, texts about statistics have been rather theoretical and intimidating for those not practicing statistical analysis on a routine basis. Thus, many engineers and scientists, who need to use statistics much more frequently than calculus or differential equations, lack sufficient knowledge of the use of statistics. The audience that is addressed in this text is the university-level biomedical engineering student who needs a bare-bones coverage of the most basic statistical analysis frequently used in biomedical engineering practice. The text introduces students to the essential vocabulary and basic concepts of probability and statistics that are required to perform the numerical summary and statistical analysis used in the biomedical field. This text is considered a starting point for important issues to consider when designing experiments, summarizing data, assuming a probability model for the data, testing hypotheses, and drawing conclusions from sampled data. A student who has completed this text should have sufficient vocabulary to read more advanced texts on statistics and further their knowledge about additional numerical analyses that are used in the biomedical engineering field but are beyond the scope of this text. This book is designed to supplement an undergraduate-level course in applied statistics, specifically in biomedical engineering. Practicing engineers who have not had formal instruction in statistics may also use this text as a simple, brief introduction to statistics used in biomedical engineering. The emphasis is on the application of statistics, the assumptions made in applying the statistical tests, the limitations of these elementary statistical methods, and the errors often committed in using statistical analysis. A number of examples from biomedical engineering research and industry practice are provided to assist the reader in understanding concepts and application. It is beneficial for the reader to have some background in the life sciences and physiology and to be familiar with basic biomedical instrumentation used in the clinical environment. Contents: Introduction / Collecting Data and Experimental Design / Data Summary and Descriptive Statistics / Assuming a Probability Model from the Sample Data / Statistical Inference / Linear Regression and Correlation Analysis / Power Analysis and Sample Size / Just the Beginning / Bibliography

**Statistics with R** May 15 2022 The dynamic, student focused textbook provides step-by-step instruction in the use of R and of statistical language as a general research tool. It is ideal for anyone hoping to: Complete an introductory course in statistics Prepare for more advanced statistical courses Gain the transferable analytical skills needed to interpret research from across the social sciences Learn the technical skills needed to present data visually Acquire a basic competence in the use of R. The book provides readers with the conceptual foundation to use applied statistical methods in everyday research. Each statistical method is developed within the context of practical, real-world examples and is supported by carefully developed pedagogy and jargon-free definitions. Theory is introduced as an accessible and adaptable tool and is always contextualized within the pragmatic context of real research projects and definable research questions. Author Robert Stinerock has also created a wide range of online resources, including: R scripts, complete solutions for all exercises, data files for each chapter, video and screen casts, and interactive multiple-choice quizzes.

**Applied Medical Statistics** May 23 2020 APPLIED MEDICAL STATISTICS An up-to-date exploration of foundational concepts in statistics and probability for medical students and researchers Medical journals and researchers are increasingly recognizing the need for improved statistical rigor in medical science. In Applied Medical Statistics, renowned statistician and researcher Dr. Jingmei Jiang delivers a clear, coherent, and accessible introduction to basic statistical concepts, ideal for medical students and medical research practitioners. The book will help readers master foundational concepts in statistical analysis and assist in the development of a critical understanding of the basic rationale of statistical analysis techniques. The distinguished author presents information without assuming the reader has a background in specialized mathematics, statistics, or probability. All of the described methods are illustrated with up-to-date examples based on real-world medical research, supplemented by exercises and case discussions to help solidify the concepts and give readers an opportunity to critically evaluate different research scenarios. Readers will also benefit from the inclusion of: A thorough introduction to basic concepts in statistics, including foundational terms and definitions, location and spread of data distributions, population parameters estimation, and statistical hypothesis tests Explorations of commonly used statistical methods, including t-tests, analysis of variance, and linear regression Discussions of advanced analysis topics, including multiple linear regression and correlation, logistic regression, and survival analysis Substantive exercises and case discussions at the end of each chapter Perfect for postgraduate medical students, clinicians, and medical and biomedical researchers, Applied Medical Statistics will also earn a place on the shelf of any researcher with an interest in biostatistics or applying statistical methods to their own field of research.

**Illustrating Statistical Procedures: Finding Meaning in Quantitative Data** Jan 23 2023 This book occupies a unique position in the field of statistical analysis in the behavioural and social sciences in that it targets learners who would benefit from learning more conceptually and less computationally about statistical procedures and the software packages that can be used to implement them. This book provides a comprehensive overview of this important research skill domain with an emphasis on visual support for learning and better understanding. The primary focus is on fundamental concepts, procedures and interpretations of statistical analyses within a single broad illustrative research context. The book covers a wide range of descriptive, correlational and inferential statistical procedures as well as more advanced procedures not typically covered in introductory and intermediate statistical texts. It is an ideal reference for postgraduate students as well as for researchers seeking to broaden their conceptual exposure to what is possible in statistical analysis.

**Research Methods in Public Administration and Nonprofit Management** Jul 25 2020 Designed for both students and practitioners, the new edition of this popular text has been thoroughly revised. It incorporates the latest thinking in public administration and nonprofit management. The book integrates both quantitative and qualitative approaches to research, and also provides specific instruction in the use of commonly available statistical software programs such as Excel and SPSS. The book is exceptionally well illustrated, with plentiful exhibits, tables, figures, and exercises.

**Experimental Statistics for Agriculture and Horticulture** Oct 16 2019 Providing practical training supported by a sound theoretical basis, this textbook introduces students to the principles of investigation by experiment and the role of statistics in analysis. It draws on the author's extensive teaching experience and is illustrated with fully worked, contextualized examples throughout, helping readers to correctly design their own experiments and identify the most appropriate technique for analysis. Subjects include sampling and determining sample reliability, hypothesis testing, relationships between variables, the role and use of computer packages such as Microsoft Excel spreadsheet software and GenStat, and more complex experimental designs, such as randomized blocks and split plots. This book is an essential text for students of agriculture, horticulture and related disciplines

**How to Report Statistics in Medicine** Jun 16 2022 This volume presents a comprehensive and comprehensible set of guidelines for reporting the statistical analyses and research designs and activities commonly used in biomedical research.

**Modern Business Statistics with Microsoft Excel** Sep 26 2020 Develop a strong conceptual understanding of statistics and its importance in business today with MODERN BUSINESS STATISTICS WITH MICROSOFT EXCEL, 7E. This best-selling, comprehensive edition balances real-world applications with an integrated focus on the latest version of Microsoft Excel. A clear presentation develops each statistical technique in an application setting. You master statistical methodology as each easy-to-follow explanation of a statistical procedure is followed by a discussion of how to use the latest Excel to perform the procedure. Step-by-step instructions and screen images reinforce understanding. For versatility, you also learn to use Excel Online and R. More than 160 new business examples, proven methods, and application exercises show how statistics provide insights into business decisions and problems. A unique problem-scenario approach emphasizes how to apply statistical methods to practical business situations, while new case problems let you check your understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Process Technology Troubleshooting** Jan 19 2020 For the first time, process technicians have a resource designed specifically for them that will provide a comprehensive, thorough overview of modern troubleshooting methods and models. Process Technology Troubleshooting utilizes a simple to complex approach that encourages readers to master basic concepts before progressing to more advanced ones for increased comprehension. The book covers troubleshooting models that apply concepts from advanced instrumentation, the control loop, and process equipment and systems, and includes coverage of such processes as a simple pump-around and feed system, compressor system, heat transfer system, cooling tower system, boiler system, furnace system, distillation system, stirred reactor system, and separations system. Each of these systems have operational information, set points, and start-up procedures. These sections include what-if scenarios and detailed illustrations. Process Technology Troubleshooting is an invaluable resource and reference for any novice, training manager or experienced process technician.

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**Descriptive Statistics - Data Presentation** Oct 20 2022

**Ebook: Business Statistics in Practice: Using Data, Modeling and Analytics** Jan 11 2022 Ebook: Business Statistics in Practice: Using Data, Modeling and Analytics

*Introduction to Civil Engineering Systems* Sep 07 2021 This book presents an integrated systems approach to the evaluation, analysis, design, and maintenance of civil engineering systems. Addressing recent concerns about the world's aging civil infrastructure and its environmental impact, the author makes the case for why any civil infrastructure should be seen as part of a larger whole. He walks readers through all phases of a civil project, from feasibility assessment to construction to operations, explaining how to evaluate tasks and challenges at each phase using a holistic approach. Unique coverage of ethics, legal issues, and management is also included.

*Experience Research Social Change* Dec 18 2019 Experience Research Social Change is a "how to" guide to research that also raises broader theoretical, methodological, and ethical questions. First published in 1989, it was the first critical methods book, and continues to inspire generations of researchers, students, and community workers. The third edition has been thoroughly revised, now containing twelve chapters organized into three parts: experience, research, and social change. The new edition also includes a wider range of examples from diverse researchers and topics that are woven throughout the text, including transdisciplinary research, sex and gender analysis, intersectional analysis, Indigenous methodologies, community-based research, digital and online approaches to research, ethical responsibilities and commitments, and knowledge translation.

**DATA ANALYSIS** Jan 31 2021 Data Analysis Using Statistics and Probability with R Language is a complete introduction to data analysis. It provides a sound understanding of the foundations of the data analysis, in addition to covering many important advanced topics. Moreover, all the techniques have been implemented using R language as well as Excel. This book is intended for the undergraduate and postgraduate students of Management and Engineering disciplines. It is also useful for research scholars. **KEY FEATURES** 1. Covers data analysis topics such as: • Descriptive statistics like mean, median, mode, standard deviation, skewness, kurtosis, correlation and regression • Probability and probability distribution • Inferential statistics like estimation of parameters, hypothesis testing, ANOVA test, chi-square and t-test • Statistical quality control, time series analysis, statistical decision theory • Explorative data analysis like clustering and classification • Advanced techniques like conjoint analysis, panel data analysis, and logistic regression analysis 2. Comprises 12 chapters which include examples, solved problems, review questions and unsolved problems. 3. Requires no programming background and can be used to understand theoretical concepts also by skipping programming. 4. R and Excel implementations, and additional advanced topics are available at [https://phindia.com/partha\\_sarathi\\_bishnu\\_and\\_vandana\\_bhattacharjee](https://phindia.com/partha_sarathi_bishnu_and_vandana_bhattacharjee) 5. Whenever in any branch, data analysis technique is required, this book is the best. **TARGET AUDIENCE** • Students of MBA, ME/M.Tech, and BE/B.Tech. • M.Sc. (Computer Science), MCA, BCA, and research scholars

*Understanding Communication Research Methods* Aug 06 2021 Comprehensive, innovative, and focused on the undergraduate student, this textbook prepares students to read and conduct research. Using an engaging how-to approach that draws from scholarship, real-life, and popular culture, the book offers students practical reasons why they should care about research methods and a guide to actually conduct research themselves. Examining quantitative, qualitative, and critical research methods, the textbook helps undergraduate students better grasp the theoretical and practical uses of method by clearly illustrating practical applications. The book defines all the main research traditions, illustrates key methods used in communication research, and provides level-appropriate applications of the methods through theoretical and practical examples and exercises, including sample student papers that demonstrate research methods in action.

*Assessment of Treatment Plant Performance and Water Quality Data: A Guide for Students, Researchers and Practitioners* Feb 24 2023 This book presents the basic principles for evaluating water quality and treatment plant performance in a clear, innovative and didactic way, using a combined approach that involves the interpretation of monitoring data associated with (i) the basic processes that take place in water bodies and in water and wastewater treatment plants and (ii) data management and statistical calculations to allow a deep interpretation of the data. This book is problem-oriented and works from practice to theory, covering most of the information you will need, such as (a) obtaining flow data and working with the concept of loading, (b) organizing sampling programmes and measurements, (c) connecting laboratory analysis to data management, (e) using numerical and graphical methods for describing monitoring data (descriptive statistics), (f) understanding and reporting removal efficiencies, (g) recognizing symmetry and asymmetry in monitoring data (normal and log-normal distributions), (h) evaluating compliance with targets and regulatory standards for effluents and water bodies, (i) making comparisons with the monitoring data (tests of hypothesis), (j) understanding the relationship between monitoring variables (correlation and regression analysis), (k) making water and mass balances, (l) understanding the different loading rates applied to treatment units, (m) learning the principles of reaction kinetics and reactor hydraulics and (n) performing calibration and verification of models. The major concepts are illustrated by 92 fully worked-out examples, which are supported by 75 freely-downloadable Excel spreadsheets. Each chapter concludes with a checklist for your report. If you are a student, researcher or practitioner planning to use or already using treatment plant and water quality monitoring data, then this book is for you! 75 Excel spreadsheets are available to download.

*Modern Statistics with R* Mar 01 2021 The past decades have transformed the world of statistical data analysis, with new methods, new types of data, and new computational tools. The aim of Modern Statistics with R is to introduce you to key parts of the modern statistical toolkit. It teaches you: - Data wrangling - importing, formatting, reshaping, merging, and filtering data in R. - Exploratory data analysis - using visualisation and multivariate techniques to explore datasets. - Statistical inference - modern methods for testing hypotheses and computing confidence intervals. - Predictive modelling - regression models and machine learning methods for prediction, classification, and forecasting. - Simulation - using simulation techniques for sample size computations and evaluations of statistical methods. - Ethics in statistics - ethical issues and good statistical practice. - R programming - writing code that is fast, readable, and free from bugs. Starting from the very basics, Modern Statistics with R helps you learn R by working with R. Topics covered range from plotting data and writing simple R code to using cross-validation for evaluating complex predictive models and using simulation for sample size determination. The book includes more than 200 exercises with fully worked solutions. Some familiarity with basic statistical concepts, such as linear regression, is assumed. No previous programming experience is needed.

*The Sage Encyclopedia of Qualitative Research Methods: A-L ; Vol. 2, M-Z Index* Nov 16 2019 An encyclopedia about various methods of qualitative research.

**Essentials of Statistics for Business and Economics** Nov 09 2021 Trust the market-leading ESSENTIALS OF STATISTICS FOR BUSINESS AND ECONOMICS, 8E to introduce sound statistical methodology using real-world examples, proven approaches, and hands-on exercises that build the foundation readers need to analyze and solve business problems quantitatively. This edition gives readers the foundation in statistics needed for an edge in today's competitive business world. The authors' signature problem-scenario approach and reader-friendly writing style combines with proven methodologies, hands-on exercises, and real examples to take readers deep into today's actual business problems. Readers learn how to solve problems from an intelligent, quantitative perspective. Streamlined to focus on core topics, this new edition provides the latest updates with new case problems, applications, and self-test exercises to help readers master key formulas and apply statistical methods as they learn them. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Essentials of Biostatistics Workbook** Mar 13 2022

**Computer Application for Numerical Data Analysis** Oct 08 2021

**Statistics for Business and Financial Economics** Sep 19 2022 This text integrates various statistical techniques with concepts from business, economics and finance, and demonstrates the power of statistical methods in the real world of business. This edition places more emphasis on finance, economics and accounting concepts with updated sample data.

**A Guide to Doing Statistics in Second Language Research Using SPSS and R** Dec 30 2020 A Guide to Doing Statistics in Second Language Research Using SPSS and R, Second Edition is the only text available that demonstrates how to use SPSS and R as specifically related to applied linguistics and SLA research. This new edition is up-to-date with the most recent version of the SPSS software and now also includes coverage of R, a software program increasingly used by researchers in this field. Supported by a number of pedagogical features, including tip boxes and practice activities, and a wealth of screenshots, this book takes readers through each step of performing and understanding statistical research, covering the most commonly used tests in second language research, including t-tests, correlation, and ANOVA. A robust accompanying website covers additional tests of interest to students and researchers, taking them step-by-step through carrying out these tests themselves. In this comprehensive and hands-on volume, Jenifer Larson-Hall equips readers with a thorough understanding and the practical skills necessary to conducting and interpreting statistical research effectively using SPSS and R, ideal for graduate students and researchers in SLA, social sciences, and applied linguistics. For more information and materials, please visit

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