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Descriptive and Inferential Statistics-Herman J. Loether 1976
Descriptive and Inferential Statistics - Summaries of theory and Exercises solved-Mercedes Orœs Lacort 2014-05-22 Descriptive and Inferential Statistics, is a book that is intended for university students of any college. You'll find theory as summaries, and exercises solved, on the following topics: Descriptive Statistics, Confidence Intervals and Test Hypothesis for means, proportions and variances for one sample, Chi Square Test, Test Hypothesis for means, proportions and variances, for two or more samples, and Regression line. Statistical software such as SPSS, Minitab, programs have been used in the resolution of problems and in some cases have been resolved by using the Excel and also manually.
Cartoon Guide to Statistics-Larry Gonick 1993-07-14 If you have ever looked for P-values by shopping at P mart, tried to watch the Bernoulli Trails on "People's Court," or think that the standard deviation is a criminal offense in six states, then you need The Cartoon Guide to Statistics to put you on the road to statistical literacy. The Cartoon Guide to Statistics covers all the central ideas of modern statistics: the summary and display of data, probability in gambling and medicine, random variables, Bernoulli Trails, the Central Limit Theorem, hypothesis testing, confidence interval estimation, and much more—all explained in simple, clear, and yes, funny illustrations. Never again will you order the Poisson Distribution in a French restaurant!
Understanding and Evaluating Research-Sue L. T. McGregor 2017-10-25 Understanding and Evaluating Research: A Critical Guide aims to sensitize students to the necessity of learning how not to defer to the mysterious authority of the experts, but rather to learn how to be a critical consumer of others' research, and to gain confidence in their ability to be producers of research. Sue McGregor shows students how to be research literate, and how to find, critique and apply other people's scholarship. This textbook is grounded in a solid understanding of the prevailing research methodologies for creating new knowledge (philosophical underpinnings), which in turn dictate problem posing, theory selection, and research methods (tasks for sampling, collecting and analyzing data, and reporting results).
Advances in Statistical Methodologies and Their Application to Real Problems-Tsukasa Hokimoto 2017-04-26 In recent years, statistical techniques and methods for data analysis have advanced significantly in a wide range of research areas. These developments enable researchers to analyze increasingly large datasets with more flexibility and also more accurately estimate and evaluate the phenomena they study. We recognize the value of recent advances in data analysis techniques in many different research fields. However, we also note that awareness of these different statistical and probabilistic approaches may vary, owing to differences in the datasets typical of different research fields. This book provides a cross-disciplinary forum for exploring the variety of new data analysis techniques emerging from different fields.
Analyzing Quantitative Data-Norman Blaikie 2003-03-06 For social researchers who need to know what procedures to use under what circumstances in

practical research projects, this book does not require an indepth understanding of statistical theory.
Fundamentals of Descriptive Statistics-Zealure C. Holcomb 1998 Appendix B Computational Formula for the Standard Deviation -- Appendix C Computational Formula for the Pearson r -- Index
Encyclopedia of Epidemiology-Sarah Boslaugh 2008 The Encyclopedia of Epidemiology presents state-of-the-art information from the field of epidemiology in a less technical and accessible style and format. With more than 600 entries, no single reference provides as comprehensive a resource in as focused and appropriate manner. The entries cover every major facet of epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and much more. Relevant topics from related fields such as biostatistics and health economics are also included.
Companion Encyclopedia of Psychology-Andrew M. Colman 2019-01-15 Psychology plays an increasingly important role in today's society. Its influence can be seen all around us - be it in the home, the workplace, the school or our private lives. A uniquely diverse discipline, it ranges from social psychology to biological aspects of behaviour, and from basic research to the applied professions. This Companion Encyclopedia covers all these main branches of psychological research and professional practice. The thematic arrangement is the result of the Editor's extensive research into syllabi, from which he distilled the 13 most frequently taught units. Students can consult and be referred to sections relating to their lecture programme, and can find lucid definitions of frequently used terms in the Glossary. Headings and sub-headings are clearly highlighted at the beginning of each chapter - ideal for quick reference. * Provides authoritative and in-depth reference material on all major branches of psychological research and professional practice * Contributors include many of the world's most eminent psychologists * Written in a lively style without assuming previous knowledge of the subject * Structured according to the core topics appearing most often as discrete modules in contemporary psychology courses * Detailed bibliographies, further reading sections, exhaustive index and glossary of technical terms * Containing 165 supporting illustrations
Introduction to Probabilistic and Statistical Methods with Examples in R-Katarzyna Stapor 2020-05-22 This book strikes a healthy balance between theory and applications, ensuring that it doesn’t offer a set of tools with no mathematical roots. It is intended as a comprehensive and largely self-contained introduction to probability and statistics for university students from various faculties, with accompanying implementations of some rudimentary statistical techniques in the language R. The content is divided into three basic parts: the first includes elements of probability theory, the second introduces readers to the basics of descriptive and inferential statistics (estimation, hypothesis testing), and the third presents the elements of correlation and linear regression analysis. Thanks to examples showing how to approach real-world problems using statistics, readers will acquire stronger analytical thinking skills, which are essential for analysts and data scientists alike.
Mastering Python for Data Science-Samir Madhavan 2015-08-31 Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced techniques for the four fundamentals of Data Science with Python - data mining, data analysis, data visualization, and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you. Some knowledge of data science is assumed. What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high-end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables. Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions. Data scientists have to wear various hats to work with data and to derive value from it. The Python programming language, beyond having conquered the scientific community in the last decade, is now an indispensable tool for the data science practitioner and a must-know tool for every aspiring data scientist. Using Python will offer you a fast, reliable, cross-platform, and mature environment for data analysis, machine learning, and algorithmic problem solving. This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands-on, advanced study of data science. Beginning with the essentials of Python in data science, you will learn to manage data and perform linear algebra in Python. You will move on to deriving inferences from the analysis by performing inferential statistics, and mining data to reveal hidden patterns and trends. You will use the matplot library to create high-end visualizations in

Python and uncover the fundamentals of machine learning. Next, you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications, before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods. Finally, you will perform K-means clustering, along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics. Style and approach This book is an easy-to-follow, comprehensive guide on data science using Python. The topics covered in the book can all be used in real world scenarios.

Applied Social Research: A Tool for the Human Services-Duane R. Monette 2013-03-08 Presenting social science research methods within the context of human service practice, APPLIED SOCIAL RESEARCH is the ideal text for courses focused on applied research in human services, counseling, social work, sociology, criminal justice, and community planning. With in-depth coverage of all the topics taught in traditional social science research methods courses, APPLIED SOCIAL RESEARCH brings the subject to life by showing how research is increasingly used in practice today. In addition, this fully updated edition includes a thought-provoking Eye on Ethics feature and new and revised Research in Practice vignettes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Using Statistics in the Social and Health Sciences with SPSS and Excel-Martin Lee Abbott 2016-07-28 Provides a step-by-step approach to statistical procedures to analyze data and conduct research, with detailed sections in each chapter explaining SPSS® and Excel® applications This book identifies connections between statistical applications and research design using cases, examples, and discussion of specific topics from the social and health sciences. Researched and class-tested to ensure an accessible presentation, the book combines clear, step-by-step explanations for both the novice and professional alike to understand the fundamental statistical practices for organizing, analyzing, and drawing conclusions from research data in their field. The book begins with an introduction to descriptive and inferential statistics and then acquaints readers with important features of statistical applications (SPSS and Excel) that support statistical analysis and decision making. Subsequent chapters treat the procedures commonly employed when working with data across various fields of social science research. Individual chapters are devoted to specific statistical procedures, each ending with lab application exercises that pose research questions, examine the questions through their application in SPSS and Excel, and conclude with a brief research report that outlines key findings drawn from the results. Real-world examples and data from social and health sciences research are used throughout the book, allowing readers to reinforce their comprehension of the material. Using Statistics in the Social and Health Sciences with SPSS® and Excel® includes: Use of straightforward procedures and examples that help students focus on understanding of analysis and interpretation of findings Inclusion of a data lab section in each chapter that provides relevant, clear examples Introduction to advanced statistical procedures in chapter sections (e.g., regression diagnostics) and separate chapters (e.g., multiple linear regression) for greater relevance to real-world research needs Emphasizing applied statistical analyses, this book can serve as the primary text in undergraduate and graduate university courses within departments of sociology, psychology, urban studies, health sciences, and public health, as well as other related departments. It will also be useful to statistics practitioners through extended sections using SPSS® and Excel® for analyzing data.

The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation-Bruce B. Frey 2018-01-29 "This book covers the basics of traditional educational testing, measurement, and evaluation theory and methodology, as well as sociopolitical issues and trends influencing the future of that research and practice"--Publisher's description.

Statistics for Criminal Justice and Criminology in Practice and Research-Jack Fitzgerald 2013-01-17 Statistics for Criminal Justice and Criminology in Practice and Research—by Jack Fitzgerald and Jerry Fitzgerald—is an engaging and comprehensive introduction to the study of basic statistics for students pursuing careers as practitioners or researchers in both Criminal Justice and Criminology programs. This student-friendly text shows how to calculate a variety of descriptive and inferential statistics, recognize which statistics are appropriate for particular data analysis situations, and perform hypothesis tests using inferential statistics. But it is much more than a “cook book.” It encourages readers to think critically about the strengths and limitations of the statistics they are calculating, as well as how they may be misapplied and misleading. Examples of statistics and statistical analyses are drawn from the worlds of the practitioner as well as the policymaker and researcher. Students will also gain a clear understanding of major ethical issues in conducting statistical analyses and reporting results, as well as insight into the realities of the life of researchers and practitioners as they use statistics and statistical analyses in their day-to-

day activities.
The Routledge Handbook of Research Methods in Applied Linguistics-Jim McKinley 2019-12-20 The Routledge Handbook of Research Methods in Applied Linguistics provides a critical survey of the methodological concepts, designs, instruments and types of analysis that are used within the broad field of applied linguistics. With more than 40 chapters written by leading and emerging scholars, this book problematizes and theorizes applied linguistics research, incorporating numerous multifaceted methodological considerations and pointing to the future of good practice in research. Topics covered include: key concepts and constructs in research methodology, such as sampling strategies and mixed methods research; research designs such as experimental research, case study research, and action research; data collection methods, from questionnaires and interviews to think-aloud protocols and data elicitation tasks; data analysis methods, such as use of R, inferential statistical analysis, and qualitative content analysis; current considerations in applied linguistics research, such as a need for transparency and greater incorporation of multilingualism in research; and recent innovations in research methods related to multimodality, eye-tracking, and advances in quantitative methods. The Routledge Handbook of Research Methods in Applied Linguistics is key reading for both experienced and novice researchers in Applied Linguistics as well as anyone undertaking study in this area.
Learning Statistics with R-Daniel Navarro
Statistics for Sport and Exercise Studies-Peter O'Donoghue 2013-06-19 Statistics for Sport and Exercise Studies guides the student through the full research process, from selecting the most appropriate statistical procedure, to analysing data, to the presentation of results, illustrating every key step in the process with clear examples, case-studies and data taken from real sport and exercise settings. Every chapter includes a range of features designed to help the student grasp the underlying concepts and relate each statistical procedure to their own research project, including definitions of key terms, practical exercises, worked examples and clear summaries. The book also offers an in-depth and practical guide to using SPSS in sport and exercise research, the most commonly used data analysis software in sport and exercise departments. In addition, a companion website includes more than 100 downloadable data sets and work sheets for use in or out of the classroom, full solutions to exercises contained in the book, plus over 1,300 PowerPoint slides for use by tutors and lecturers. Statistics for Sport and Exercise Studies is a complete, user-friendly introduction to the use of statistical tests, techniques and procedures in sport, exercise and related subjects. Visit the companion website at: www.routledge.com/cw/odonoghue
Practical Statistics-David Kremelberg 2010-03-18 Making statistics—and statistical software—accessible and rewarding This book provides readers with step-by-step guidance on running a wide variety of statistical analyses in IBM® SPSS® Statistics, Stata, and other programs. Author David Kremelberg begins his user-friendly text by covering charts and graphs through regression, time-series analysis, and factor analysis. He provides a background of the method, then explains how to run these tests in IBM SPSS and Stata. He then progresses to more advanced kinds of statistics such as HLM and SEM, where he describes the tests and explains how to run these tests in their appropriate software including HLM and AMOS. This is an invaluable guide for upper-level undergraduate and graduate students across the social and behavioral sciences who need assistance in understanding the various statistical packages.
Business Analytics, Volume I-Amar Sahay 2018-08-23 Business Analytics: A Data-Driven Decision Making Approach for Business-Part I,/i> provides an overview of business analytics (BA), business intelligence (BI), and the role and importance of these in the modern business decision-making. The book discusses all these areas along with three main analytics categories: (1) descriptive, (2) predictive, and (3) prescriptive analytics with their tools and applications in business. This volume focuses on descriptive analytics that involves the use of descriptive and visual or graphical methods, numerical methods, as well as data analysis tools, big data applications, and the use of data dashboards to understand business performance. The highlights of this volume are: Business analytics at a glance; Business intelligence (BI), data analytics; Data, data types, descriptive analytics; Data visualization tools; Data visualization with big data; Descriptive analytics-numerical methods; Case analysis with computer applications.
Statistical Inference-Michael J. Panik 2012-06-06 A concise, easily accessible introduction to descriptive and inferential techniques Statistical Inference: A Short Course offers a concise presentation of the essentials of basic statistics for readers seeking to acquire a working knowledge of statistical concepts, measures, and procedures. The author conducts tests on the assumption of randomness and normality, provides nonparametric methods when parametric approaches might not work. The book also explores how to determine a confidence interval for a population median while also providing coverage of ratio estimation,

randomness, and causality. To ensure a thorough understanding of all key concepts, Statistical Inference provides numerous examples and solutions along with complete and precise answers to many fundamental questions, including: How do we determine that a given dataset is actually a random sample? With what level of precision and reliability can a population sample be estimated? How are probabilities determined and are they the same thing as odds? How can we predict the level of one variable from that of another? What is the strength of the relationship between two variables? The book is organized to present fundamental statistical concepts first, with later chapters exploring more advanced topics and additional statistical tests such as Distributional Hypotheses, Multinomial Chi-Square Statistics, and the Chi-Square Distribution. Each chapter includes appendices and exercises, allowing readers to test their comprehension of the presented material. Statistical Inference: A Short Course is an excellent book for courses on probability, mathematical statistics, and statistical inference at the upper-undergraduate and graduate levels. The book also serves as a valuable reference for researchers and practitioners who would like to develop further insights into essential statistical tools.

Making Sense of Statistics-Fred Pyrczak 2018-06-13 Making Sense of Statistics is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project. It presents each statistical concept in a series of short steps, then uses worked examples and exercises to enable students to apply their own learning. It focuses on presenting the why as well as the how of statistical concepts, rather than computations and formulae, so is suitable for students from all disciplines regardless of mathematical background. Only statistical techniques that are almost universally included in introductory statistics courses, and widely reported in journals, have been included. Once students understand and feel comfortable with the statistics that meet these criteria, they should find it easy to master additional statistical concepts. New to the Seventh Edition Retaining the key features and organization that have made this book an indispensable text for teaching and learning the basic concepts of statistical analysis, this new edition features: discussion of the use of observation in quantitative and qualitative research the inclusion of introductions to the book, and each Part. section objectives listed at the beginning of each section to guide the reader. new material on key topics such as z-scores, probability, Central Limit Theorem, Standard Deviation and simple and multiple regression Expanded discussion on t test with separate sections for independent and dependent samples t tests, as well as one-sample t test progressive analysis of bivariate vs multivariate statistics (starts with the basic concepts and moves to more complex analysis as the student progresses) updated and extended pedagogical material such as Chapter Objectives, exercises and worked examples to test and enhance student’s understanding of the material presented in the chapter Bolded key terms, with definitions and Glossary for quick referral expanded Appendices include a brief reference list of some common computational formulas and examples. a Glossary of key terms has been added at the end of the book, with references to sections in parenthesis. New online instructor resources for classroom use consisting of test bank questions and Powerpoint slides, plus material on basic math review

Learn R for Applied Statistics-Eric Goh Ming Hui 2018-11-30 Gain the R programming language fundamentals for doing the applied statistics useful for data exploration and analysis in data science and data mining. This book covers topics ranging from R syntax basics, descriptive statistics, and data visualizations to inferential statistics and regressions. After learning R’s syntax, you will work through data visualizations such as histograms and boxplot charting, descriptive statistics, and inferential statistics such as t-test, chi-square test, ANOVA, non-parametric test, and linear regressions. Learn R for Applied Statistics is a timely skills-migration book that equips you with the R programming fundamentals and introduces you to applied statistics for data explorations. What You Will Learn Discover R, statistics, data science, data mining, and big data Master the fundamentals of R programming, including variables and arithmetic, vectors, lists, data frames, conditional statements, loops, and functions Work with descriptive statistics Create data visualizations, including bar charts, line charts, scatter plots, boxplots, histograms, and scatterplots Use inferential statistics including t-tests, chi-square tests, ANOVA, non-parametric tests, linear regressions, and multiple linear regressions Who This Book Is For Those who are interested in data science, in particular data exploration using applied statistics, and the use of R programming for data visualizations.

Estimation and Inferential Statistics-Pradip Kumar Sahu 2015-11-03 This book focuses on the meaning of statistical inference and estimation. Statistical inference is concerned with the problems of estimation of population parameters and testing hypotheses. Primarily aimed at undergraduate and postgraduate students of statistics, the book is also useful to professionals and researchers in statistical, medical, social and other disciplines. It discusses current methodological techniques used in statistics and related interdisciplinary areas. Every concept is supported with relevant research examples to help readers to

find the most suitable application. Statistical tools have been presented by using real-life examples, removing the “fear factor” usually associated with this complex subject. The book will help readers to discover diverse perspectives of statistical theory followed by relevant worked-out examples. Keeping in mind the needs of readers, as well as constantly changing scenarios, the material is presented in an easy-to-understand form.

Statistical Methods for Geography-Peter A Rogerson 2010-02-11 The Third Edition of this bestselling student favorite has again been revised and updated to provide an expert introduction to the principal methods and techniques needed to understand a statistics module. Features new to this edition include: further introductory material; updated exercises and illustrative examples; updated downloadable datasets Statistical Methods is required reading for undergraduate modules in statistical analysis, statistical methods, and quantitative geography.

The Cambridge Handbook of Computing Education Research-Sally A. Fincher 2019-02-21 This Handbook describes the extent and shape of computing education research today. Over fifty leading researchers from academia and industry (including Google and Microsoft) have contributed chapters that together define and expand the evidence base. The foundational chapters set the field in context, articulate expertise from key disciplines, and form a practical guide for new researchers. They address what can be learned empirically, methodologically and theoretically from each area. The topic chapters explore issues that are of current interest, why they matter, and what is already known. They include discussion of motivational context, implications for practice, and open questions which might suggest future research. The authors provide an authoritative introduction to the field and is essential reading for policy makers, as well as both new and established researchers.

Statistics in a Nutshell-Sarah Boslaugh 2012-11-15 A clear and concise introduction and reference for anyone new to the subject of statistics.

Applied Machine Learning-M.Gopal 2018-05-15 This text covers all the fundamentals and presents basic theoretical concepts and a wide range of techniques (algorithms) applicable to challenges in our day-to-day lives. The book recognizes that most of the ideas behind machine learning are simple and straightforward. It provides a platform for hands-on experience through self-study machine learning projects. Datasets for some benchmark applications have been explained to encourage the use of algorithms covered in this book. This is a comprehensive text book on machine learning for undergraduates in computer science and all engineering degree programs. Post graduates and research scholars will find it a useful initial exposure to the subject, before they go for highly theoretical depth in the specific areas of their research. For engineers, scientists, business managers and other practitioners, the book will help build the foundations of machine learning.

Your Statistical Consultant-Rae R. Newton 2013 Although many graduate students and researchers have had course work in statistics, they sometimes find themselves stumped in proceeding with a particular data analysis question. In fact, statistics is often taught as a lesson in mathematics as opposed to a strategy for answering questions about world[?], leaving beginning researchers at a loss for how to proceed. In these situations, it is common to turn to a statistical expert, the "go to" person when questions regarding appropriate data analysis emerge. Your Statistical Consultant is an authentic alternative resource for describing, explaining, and making recommendations regarding thorny or confusing statistical issues. Written to be responsive to a wide range of inquiries and levels of expertise, this book is flexibly organized so readers can either read it sequentially or turn directly to the sections that correspond to their concerns and questions.

Writing about Quantitative Research in Applied Linguistics-L. Woodrow 2014-09-28 With increasing pressure on academics and graduate students to publish in peer reviewed journals, this book offers a much-needed guide to writing about and publishing quantitative research in applied linguistics. With annotated examples and useful resources, this book will be indispensable to graduate students and seasoned researchers alike.

Introduction to Statistics-Wolfgang Karl Härdle 2015-12-25 This book covers all the topics found in introductory descriptive statistics courses, including simple linear regression and time series analysis, the fundamentals of inferential statistics (probability theory, random sampling and estimation theory), and inferential statistics itself (confidence intervals, testing). Each chapter starts with the necessary theoretical background, which is followed by a variety of examples. The core examples are based on the content of the respective chapter, while the advanced examples, designed to deepen students’ knowledge, also draw on information and material from previous chapters. The enhanced online version helps students grasp the complexity and the practical relevance of statistical analysis through interactive examples and is suitable for undergraduate and graduate students taking their first statistics courses, as well as for undergraduate

students in non-mathematical fields, e.g. economics, the social sciences etc.
Basic Quantitative Research Methods for Urban Planners-Reid Ewing 2020-02-24 In most planning practice and research, planners work with quantitative data. By summarizing, analyzing, and presenting data, planners create stories and narratives that explain various planning issues. Particularly, in the era of big data and data mining, there is a stronger demand in planning practice and research to increase capacity for data-driven storytelling. Basic Quantitative Research Methods for Urban Planners provides readers with comprehensive knowledge and hands-on techniques for a variety of quantitative research studies, from descriptive statistics to commonly used inferential statistics. It covers statistical methods from chi-square through logistic regression and also quasi-experimental studies. At the same time, the book provides fundamental knowledge about research in general, such as planning data sources and uses, conceptual frameworks, and technical writing. The book presents relatively complex material in the simplest and clearest way possible, and through the use of real world planning examples, makes the theoretical and abstract content of each chapter as tangible as possible. It will be invaluable to students and novice researchers from planning programs, intermediate researchers who want to branch out methodologically, practicing planners who need to conduct basic analyses with planning data, and anyone who consumes the research of others and needs to judge its validity and reliability.
Inferential Network Analysis-Skyler J. Cranmer 2020-11-19 Pioneering introduction of unprecedented breadth and scope to inferential and statistical methods for network analysis.
Intermediate Statistics-Brett W. Pelham 2012-08-20 Intermediate Statistics: A Conceptual Course is a student-friendly text for advanced undergraduate and graduate courses. It begins with an introductory chapter that reviews descriptive and inferential statistics in plain language, avoiding extensive emphasis on complex formulas. The remainder of the text covers 13 different statistical topics ranging from descriptive statistics to advanced multiple regression analysis and path analysis. Each chapter contains a description of the logic of each set of statistical tests or procedures and then introduces students to a series of data sets using SPSS, with screen captures and detailed step-by-step instructions. Students acquire an appreciation of the logic of descriptive and inferential statistics, and an understanding of which techniques are best suited to which kinds of data or research questions.
Understanding Statistical Analysis and Modeling-Robert Bruhl 2017-11-15 Understanding Statistical Analysis and Modeling is for readers in the social, behavioral, or managerial sciences mathematics to understand the logic of statistical analysis. Robert Bruhl covers all the basic methods of descriptive and inferential statistics in an accessible manner by way of asking and answering research questions. Concepts are discussed in the context of a specific research project and the book includes probability theory as the basis for understanding statistical inference. Instructions on using SPSS® are included so that readers focus on interpreting statistical analysis rather than calculations. Tables are used, rather than formulas, to describe the various calculations involved with statistical analysis and the exercises in the book are intended to encourage students to formulate and execute their own empirical investigations.
R Data Science Essentials-Raja B. Koushik 2016-01-13 Learn the essence of data science and visualization using R in no time at all About This Book Become a pro at making stunning visualizations and dashboards quickly and without hassle For better decision making in business, apply the R programming language with the help of useful statistical techniques. From seasoned authors comes a book that offers you a plethora of fast-paced techniques to detect and analyze data patterns Who This Book Is For If you are an aspiring data scientist or analyst who has a basic understanding of data science and has basic hands-on experience in R or any other analytics tool, then R Data Science Essentials is the book for you. What You Will Learn Perform data preprocessing and basic operations on data Implement visual and non-visual implementation data exploration techniques Mine patterns from data using affinity and sequential analysis Use different clustering algorithms and visualize them Implement logistic and linear regression and find out how to evaluate and improve the performance of an algorithm Extract patterns through visualization and build a forecasting algorithm Build a recommendation engine using different collaborative filtering algorithms Make a stunning visualization and dashboard using ggplot and R shiny In Detail With organizations increasingly embedding data science across their enterprise and with management becoming more data-driven it is an urgent requirement for analysts and managers to understand the key concept of data science. The data science concepts discussed in this book will help you make key decisions and solve the complex problems you will inevitably face in this new world. R Data Science Essentials will introduce you to various important concepts in the field of data science using R. We start by reading data from multiple sources, then move on to processing the data, extracting hidden patterns, building predictive and forecasting models, building a recommendation engine, and

communicating to the user through stunning visualizations and dashboards. By the end of this book, you will have an understanding of some very important techniques in data science, be able to implement them using R, understand and interpret the outcomes, and know how they helps businesses make a decision. Style and approach This easy-to-follow guide contains hands-on examples of the concepts of data science using R.

Doing Research in Political Science-Paul Pennings 2005-11-11 This is an immensely helpful book for students starting their own research... an excellent introduction to the comparative method giving an authoritative overview over the research process - Klaus Armingeon, University of Bern Doing Research in Political Science is the book for mastering the comparative method in all the social sciences - Jan-Erik Lane, University of Geneva This book has established itself as a concise and well-readable text on comparative methods and statistics in political science I...strongly recommend it. - Dirk Berg-Schlosser, Philipps-University Marburg This thoroughly revised edition of the popular textbook offers an accessible but comprehensive introduction to comparative research methods and statistics for students of political science. Clearly organized around three parts, the text introduces the main theories and methodologies used in the discipline. Part 1 frames the comparative approach within the methodological framework of the political and social sciences. Part 2 introduces basic descriptive and inferential statistical methods as well as more advanced multivariate methods used in quantitative political analysis. Part 3 applies the methods and techniques of Parts 1 & 2 to research questions drawn from contemporary themes and issues in political science. Incorporating practice exercises, ideas for further reading and summary questions throughout, Doing Research in Political Science provides an invaluable step-by-step guide for students and researchers in political science, comparative politics and empirical political analysis.

Statistics in Psychology Using R and SPSS-Dieter Rasch 2011-12-12 Statistics in Psychology covers all statistical methods needed in education and research in psychology. This book looks at research questions when planning data sampling, that is to design the intended study and to calculate the sample sizes in advance. In other words, no analysis applies if the minimum size is not determined in order to fulfil certain precision requirements. The book looks at the process of empirical research into the following seven stages: Formulation of the problem Stipulation of the precision requirements Selecting the statistical model for the planning and analysis The (optimal) design of the experiment or survey Performing the experiment or the survey Statistical analysis of the observed results Interpretation of the results.

Even You Can Learn Statistics-David M. Levine 2011-12-14 Even You Can Learn Statistics: A Guide for Everyone Who Has Ever Been Afraid of Statisticsi s a practical, up-to-date introduction to statistics—for everyone! Thought you couldn’t learn statistics? You can—and you will! One easy step at a time, this fully updated book teaches you all the statistical techniques you’ll need for finance, quality, marketing, the social sciences, or anything else! Simple jargon-free explanations help you understand every technique. Practical examples and worked-out problems give you hands-on practice. Special sections present detailed instructions for developing statistical answers, using spreadsheet programs or any TI-83/TI-84 compatible calculator. This edition delivers new examples, more detailed problems and sample solutions, plus an all-new chapter on powerful multiple regression techniques. Hate math? No sweat. You’ll be amazed at how little you need. Like math? Optional “Equation Blackboard” sections reveal the mathematical foundations of statistics right before your eyes! You’ll learn how to: • Construct and interpret statistical charts and tables with Excel or OpenOffice.org Calc 3 • Work with mean, median, mode, standard deviation, Z scores, skewness, and other descriptive statistics • Use probability and probability distributions • Work with sampling distributions and confidence intervals • Test hypotheses with Z, t, chi-square, ANOVA, and other techniques • Perform powerful regression analysis and modeling • Use multiple regression to develop models that contain several independent variables • Master specific statistical techniques for quality and Six Sigma programs About the Web Site Download practice files, templates, data sets, and sample spreadsheet models—including ready-to-use solutions for your own work! www.ftpress.com/youcanlearnstatistics2e

Data Analysis for the Social Sciences-Douglas Bors 2018-01-08 'This book fosters in-depth understanding of the logic underpinning the most common statistical tests within the behavioural sciences. By emphasising the shared ground between these tests, the author provides crucial scaffolding for students as they embark upon their research journey.' —Ruth Horry, Psychology, Swansea University 'This unique text presents the conceptual underpinnings of statistics as well as the computation and application of statistics to real-life situations--a combination rarely covered in one book. A must-have for students learning statistical techniques and a go-to handbook for experienced researchers.' —Barbra Teater, Social Work, College of Staten Island, City University of New York

Accessible, engaging, and informative, this book will help any social science student approach statistics with confidence. With a well-paced and well-judged integrated approach rather than a simple linear trajectory, this book progresses at a realistic speed that matches the pace at which statistics novices actually learn. Packed with global, interdisciplinary examples that ground statistical theory and concepts in real-world situations, it shows students not only how to apply newfound knowledge using IBM SPSS Statistics, but also why they would want to. Spanning statistics basics like variables, constants, and sampling through to t-tests, multiple regression and factor analysis, it builds statistical literacy while also covering key research principles like research questions, error types and results reliability. It shows you how to: Describe data with graphs, tables, and numbers Calculate probability and value distributions Test a priori and post hoc hypotheses Conduct Chi-squared tests and observational studies Structure ANOVA, ANCOVA, and factorial designs Supported by lots of visuals and a website with interactive demonstrations, author video, and practice datasets, this book is the student-focused companion to support students through their statistics journeys.

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