

BASIC MATH FOR SOCIAL SCIENTISTS

Concepts

TIMOTHY M. HAGLE

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108

Basic Math For Social Scientists

Robert Philip Weber



Basic Math For Social Scientists:

Basic Math for Social Scientists Timothy M. Hagle, 1995 Taking an informal approach Hagle presents a review of the basic mathematical concepts that underlie most quantitative analysis in the social sciences After an algebra review featuring sets and combinations Hagle discusses limits and continuity Calculus is presented next with an introduction to differential calculus Multivariate functions partial derivatives and integral calculus are discussed the author concludes with a discussion of matrix algebra Aimed at readers who have taken one or two courses in algebra this volume is packed with helpful definitions equations and examples as well as alternative notations A useful appendix of common math symbol and Greek letters is also included Learn more about The Little Green Book QASS Series

Basic Math for Social Scientists Timothy Hagle, 1996-03-01 Aimed at providing readers who want a quick refresher course in mathematics with an informal review Timothy M Hagle s volume offers dozens of worked out examples of such mathematical concepts as algebra sets limits continuity differential calculus multivariate functions partial derivatives integral calculus and matrix algebra In addition Hagle provides problem sets so that readers can practice their grasp of standard mathematical procedures answers to these problem sets are contained in the appendixes Written in a friendly style Basic Math for Social Scientists Problems and Solutions provides readers with an informal approach to mathematical procedures without proofs

Multidimensional Scaling Joseph B. Kruskal, Myron Wish, 1978 Basic concepts of multidimensional scaling Interpretation of the configuration Dimensionality Three way multidimensional scaling Preparing the input for multidimensional scaling

Mathematics for Social Scientists Shobha Bagai, Amber Habib, Geetha Venkataraman, 2024-07-24 This book helps readers bridge the gap between school level mathematical skills and the quantitative and analytical skills required at the professional level It presents basic mathematical concepts in an everyday context enabling readers to pick up skills with ease Mathematics for Social Scientists Focuses on building foundational skills in reasoning data analysis and quantitative methods that are a requisite for progressing to higher levels Helps readers express mathematical ideas in the form of sets analyse arguments and their validity mathematically interpret and handle data and understand the concept and use of probability Includes a dedicated chapter on symmetry perspective and art to encourage readers to reason model and objectively evaluate everyday situations The volume will be useful to students of various disciplines in Social Sciences and Liberal Arts It will also be an invaluable companion to practitioners of social sciences humanities and life sciences as well as schoolteachers at the middle and higher secondary level

Summated Rating Scale Construction Paul E. Spector, 1992 The goal in surveying is to develop a rating on some attitude value or opinion a summated rating scale To help researchers construct more effective scales Spector shows how to determine the number of items necessary the number of response categories and how to validate a scale

[Bayesian Methods in Statistics](#) Mel Slater, 2021-11-10 This book walks you through learning probability and statistics from a Bayesian point of view From an introduction to probability theory through to frameworks for doing

rigorous calculations of probability it discusses Bayes Theorem before illustrating how to use it in a variety of different situations with data addressing social and psychological issues The book also Equips you with coding skills in the statistical modelling language Stan and programming language R Discusses how Bayesian approaches to statistics compare to classical approaches Introduces Markov Chain Monte Carlo methods for doing Bayesian statistics through computer simulations so you understand how Bayesian solutions are implemented Features include an introduction to each chapter and a chapter summary to help you check your learning All the examples and data used in the book are also available in the online resources so you can practice at your own pace For readers with some understanding of basic mathematical functions and notation this book will get you up and running so you can do Bayesian statistics with confidence **Nonparametric Simple**

Regression John Fox,2000-01-20 While regression analysis traces the dependence of the distribution of a response variable to see if it bears a particular linear relationship to one or more of the predictors nonparametric regression analysis makes minimal assumptions about the form of relationship between the average response and the predictors This makes nonparametric regression a more useful technique for analyzing data in which there are several predictors that may combine additively to influence the response An example could be something like birth order gender and temperament on achievement motivation Unfortunately researchers have not had accessible information on nonparametric regression analysis until now Beginning with presentation of nonparametric regression based on dividing the data into bins and averaging the response values in each bin Fox introduces readers to the techniques of kernel estimation additive nonparametric regression and the ways nonparametric regression can be employed to select transformations of the data preceding a linear least squares fit The book concludes with ways nonparametric regression can be generalized to logit probit and Poisson regression

Basic Content Analysis Robert Philip Weber,1990 This second edition has been completely updated to include new studies new computer applications and an additional chapter on problems and issues that can arise when carrying out content analysis in four major categories measurement indication representation and interpretation *Understanding Regression Analysis* Larry D. Schroeder,David L. Sjoquist,Paula E. Stephan,2016-10-20 Understanding Regression Analysis An Introductory Guide presents the fundamentals of regression analysis from its meaning to uses in a concise easy to read and non technical style It illustrates how regression coefficients are estimated interpreted and used in a variety of settings within the social sciences business law and public policy Packed with applied examples and using few equations the book walks readers through elementary material using a verbal intuitive interpretation of regression coefficients associated statistics and hypothesis tests The Second Edition features updated examples and new references to modern software output

Propensity Score Methods and Applications Haiyan Bai,M. H. Clark,2018-11-20 A concise introductory text Propensity Score Methods and Applications describes propensity score methods PSM and how they are used to balance the distributions of observed covariates between treatment conditions as a means to reduce selection bias This new QASS title

specifically focuses on the procedures of implementing PSM for research in social sciences instead of merely demonstrating the effectiveness of the method Using succinct and approachable language to introduce the basic concepts of PSM authors Haiyan Bai and M H Clark present basic concepts assumptions procedures available software packages and step by step examples for implementing PSM using real world data with exercises at the end of each chapter allowing readers to replicate examples on their own

Linear Regression Damodar N. Gujarati,2018-06-14 Damodar N Gujarati s Linear Regression A Mathematical Introduction presents linear regression theory in a rigorous but approachable manner that is accessible to students in all social sciences This concise title goes step by step through the intricacies and theory and practice of regression analysis The technical discussion is provided in a clear style that doesn t overwhelm the reader with abstract mathematics End of chapter exercises test mastery of the content and advanced discussion of some of the topics is offered in the appendices

The Cumulative Book Index ,1996 A world list of books in the English language

Global Systems Dynamics E. O. Attinger,1970-10-15

Mathematics for Social Scientists Jonathan Kropko,2015-09-09 Written for social science students who will be working with or conducting research Mathematics for Social Scientists offers a non intimidating approach to learning or reviewing math skills essential in quantitative research methods The text is designed to build students confidence by presenting material in a conversational tone and using a wealth of clear and applied examples Author Jonathan Kropko argues that mastering these concepts will break students reliance on using basic models in statistical software allowing them to engage with research data beyond simple software calculations

Mathematics for Social Scientists Jonathan Kropko,2015-09-09 Written for social science students who will be working with or conducting research Mathematics for Social Scientists offers a non intimidating approach to learning or reviewing math skills essential in quantitative research methods The text is designed to build students confidence by presenting material in a conversational tone and using a wealth of clear and applied examples Author Jonathan Kropko argues that mastering these concepts will break students reliance on using basic models in statistical software allowing them to engage with research data beyond simple software calculations

Resources for Nursing Research Cynthia Clamp,Stephen Gough,1999-09-20 Fully revised and updated the third edition of this invaluable bibliography of sources of literature for nurses includes over 2760 entries 64 per cent of which are new This comprehensive yet concise guide is designed for convenience and ease of use and covers all aspects of nursing and allied health research with accessible and informative entries compiled within three sections The first covers the process of literature searching libraries and tools print and electronic for accessing literature In the second methods of inquiry are presented The final section discusses issues surrounding nursing research The book includes an extended section on electronic sources as well as many web site addresses and is design

Basic Mathematics for the Biological and Social Sciences Francis Henry Charles Marriott,1970-01-01

Which University ,1975

Missing Data Paul D. Allison,2001-08-13 Using numerous examples and practical tips this book offers a nontechnical explanation of the

standard methods for missing data such as listwise or casewise deletion as well as two newer and better methods maximum likelihood and multiple imputation Anyone who has relied on ad hoc methods that are statistically inefficient or biased will find this book a welcome and accessible solution to their problems with handling missing data Quantitative Research Methods for Communication Jason S. Wrench, 2008 Conducting research can be one of the most fascinating and intimidating tasks for students and scholars A relevant and accessible guide to quantitative research Quantitative Research Methods for Communication A Hands On Approach offers an innovative and insightful look at this complex subject Drawing on their extensive research and teaching experience in the field of communication authors Jason S Wrench Candice Thomas Maddox Virginia Peck Richmond and James C McCroskey have compiled their diverse acclaimed work into one comprehensive volume In clear straightforward language the authors encourage students to take an active hands on role in the learning process giving them the tools they need to locate conduct collect and present their research Students are not only introduced to new skills but they also have the opportunity to immediately apply these skills in research scenarios Beginning with a brief history of social science research the text incorporates the following resources An introduction to the fundamentals of communication research from library skills to basic mathematical concepts An examination of the three most common techniques used in communication research survey content analysis and experiment A sophisticated analysis of sampling and hypothesis testing A step by step introduction to statistical tools Guided research assignments based on actual data driven research questions In depth analyses of articles that feature statistical tests A guide to presenting research findings from delivering research papers at conferences to submitting original research for publication The text integrates rich pedagogical features throughout including chapter objectives case studies data sheets and lists of key terms The accompanying CD ROM offers many helpful tools including ten articles originally published by the Eastern Communication Association and a Student Workbook An invaluable resource for gathering and processing information in the twenty first century Quantitative Research Methods for Communication equips students with the skills and confidence to produce their own cutting edge research

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