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**STATISTICAL
ANALYSIS
WITH
MISSING
DATA**

THIRD EDITION

**Roderick J. A. Little
Donald B. Rubin**

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Statistical Analysis With Missing Data

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Statistical Analysis With Missing Data:

Statistical Analysis with Missing Data., 3rd Edition Roderick Little, Donald Rubin, 2019 Blending theory and application this comprehensive resource offers an up to date account of practical methodology for handling missing data problems *Statistical Analysis with Missing Data* Roderick J. A. Little, Donald B. Rubin, 2019-04-23 An up to date comprehensive treatment of a classic text on missing data in statistics The topic of missing data has gained considerable attention in recent decades This new edition by two acknowledged experts on the subject offers an up to date account of practical methodology for handling missing data problems Blending theory and application authors Roderick Little and Donald Rubin review historical approaches to the subject and describe simple methods for multivariate analysis with missing values They then provide a coherent theory for analysis of problems based on likelihoods derived from statistical models for the data and the missing data mechanism and then they apply the theory to a wide range of important missing data problems *Statistical Analysis with Missing Data Third Edition* starts by introducing readers to the subject and approaches toward solving it It looks at the patterns and mechanisms that create the missing data as well as a taxonomy of missing data It then goes on to examine missing data in experiments before discussing complete case and available case analysis including weighting methods The new edition expands its coverage to include recent work on topics such as nonresponse in sample surveys causal inference diagnostic methods and sensitivity analysis among a host of other topics An updated classic written by renowned authorities on the subject Features over 150 exercises including many new ones Covers recent work on important methods like multiple imputation robust alternatives to weighting and Bayesian methods Revises previous topics based on past student feedback and class experience Contains an updated and expanded bibliography The authors were awarded The Karl Pearson Prize in 2017 by the International Statistical Institute for a research contribution that has had profound influence on statistical theory methodology or applications Their work has been no less than defining and transforming ISI *Statistical Analysis with Missing Data Third Edition* is an ideal textbook for upper undergraduate and or beginning graduate level students of the subject It is also an excellent source of information for applied statisticians and practitioners in government and industry **Statistical Analysis with Missing Data** Roderick J. A. Little, Donald B. Rubin, 2014-08-25 Emphasizes the latest trends in the field Includes a new chapter on evolving methods Provides updated or revised material in most of the chapters **Statistical Analysis With Missing Data** Roderick J. A. Little, Donald B. Rubin, 1987-05-11 Blending theory and application this study reviews historical approaches to the subject and provides rigorous yet simple methods for multivariate analysis with missing values **Missing Data** Paul D. Allison, 2001-08-13 Sooner or later anyone who does statistical analysis runs into problems with missing data in which information for some variables is missing for some cases Why is this a problem Because most statistical methods presume that every case has information on all the variables to be included in the analysis 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 been relying 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

Statistical Power Analysis with Missing Data Adam Davey, Jyoti "Tina" Savla, 2009-08-20 Statistical power analysis has revolutionized the ways in which we conduct and evaluate research Similar developments in the statistical analysis of incomplete missing data are gaining more widespread applications This volume brings statistical power and incomplete data together under a common framework in a way that is readily accessible to those with only an introductory familiarity with structural equation modeling It answers many practical questions such as How missing data affects the statistical power in a study How much power is likely with different amounts and types of missing data How to increase the power of a design in the presence of missing data and How to identify the most powerful design in the presence of missing data Points of Reflection encourage readers to stop and test their understanding of the material Try Me sections test one's ability to apply the material Troubleshooting Tips help to prevent commonly encountered problems Exercises reinforce content and Additional Readings provide sources for delving more deeply into selected topics Numerous examples demonstrate the book's application to a variety of disciplines Each issue is accompanied by its potential strengths and shortcomings and examples using a variety of software packages SAS SPSS Stata LISREL AMOS and MPlus Syntax is provided using a single software program to promote continuity but in each case parallel syntax using the other packages is presented in appendixes Routines data sets syntax files and links to student versions of software packages are found at www.psypress.com/davey The worked examples in Part 2 also provide results from a wider set of estimated models These tables and accompanying syntax can be used to estimate statistical power or required sample size for similar problems under a wide range of conditions Class tested at Temple Virginia Tech and Miami University of Ohio this brief text is an ideal supplement for graduate courses in applied statistics statistics II intermediate or advanced statistics experimental design structural equation modeling power analysis and research methods taught in departments of psychology human development education sociology nursing social work gerontology and other social and health sciences The book's applied approach will also appeal to researchers in these areas Sections covering Fundamentals Applications and Extensions are designed to take readers from first steps to mastery

Applied Missing Data Analysis Craig K. Enders, 2022-07-01 The most user friendly and authoritative resource on missing data has been completely revised to make room for the latest developments that make handling missing data more effective The second edition includes new methods based on factored regressions newer model based imputation strategies and innovations in Bayesian analysis State of the art technical literature on missing data is translated into accessible guidelines for applied researchers and graduate students The second edition takes an even three pronged approach to maximum likelihood estimation MLE Bayesian estimation as an alternative to MLE and multiple

imputation Consistently organized chapters explain the rationale and procedural details for each technique and illustrate the analyses with engaging worked through examples on such topics as young adult smoking employee turnover and chronic pain The companion website www.appliedmissingdata.com includes data sets and analysis examples from the book up to date software information and other resources New to This Edition Expanded coverage of Bayesian estimation including a new chapter on incomplete categorical variables New chapters on factored regressions model based imputation strategies multilevel missing data handling methods missing not at random analyses and other timely topics Presents cutting edge methods developed since the 2010 first edition includes dozens of new data analysis examples Most of the book is entirely new

Statistical Analysis With Missing Data R.J.A. Little, *Handbook of Missing Data Methodology* Geert Molenberghs, Garrett Fitzmaurice, Michael G. Kenward, Anastasios Tsiatis, Geert Verbeke, 2014-11-06 Missing data affect nearly every discipline by complicating the statistical analysis of collected data But since the 1990s there have been important developments in the statistical methodology for handling missing data Written by renowned statisticians in this area *Handbook of Missing Data Methodology* presents many methodological advances and t

Applied Missing Data Analysis in the Health Sciences Xiao-Hua Zhou, Chuan Zhou, Danping Lui, Xaiobo Ding, 2014-05-19 Applied Missing Data Analysis in the Health Sciences A modern and practical guide to the essential concepts and ideas for analyzing data with missing observations in the field of biostatistics With an emphasis on hands on applications Applied Missing Data Analysis in the Health Sciences outlines the various statistical methods for the analysis of missing data The authors acknowledge the limitations of established techniques and provide newly developed methods with concrete applications in areas such as causal inference Organized by types of data chapter coverage begins with an overall introduction to the existence and limitations of missing data and continues into techniques for missing data inference including likelihood based weighted GEE multiple imputation and Bayesian methods The book subsequently covers cross sectional longitudinal hierarchical survival data In addition Applied Missing Data Analysis in the Health Sciences features Multiple data sets that can be replicated using SAS Stata R and WinBUGS software packages Numerous examples of case studies to illustrate real world scenarios and demonstrate applications of discussed methodologies Detailed appendices to guide readers through the use of the presented data in various software environments Applied Missing Data Analysis in the Health Sciences is an excellent textbook for upper undergraduate and graduate level biostatistics courses as well as an ideal resource for health science researchers and applied statisticians

Missing Data Patrick E. McKnight, Katherine M. McKnight, Souraya Sidani, Aurelio José Figueredo, 2007-03-28 While most books on missing data focus on applying sophisticated statistical techniques to deal with the problem after it has occurred this volume provides a methodology for the control and prevention of missing data In clear nontechnical language the authors help the reader understand the different types of missing data and their implications for the reliability validity and generalizability of a study s conclusions They provide practical recommendations for designing

studies that decrease the likelihood of missing data and for addressing this important issue when reporting study results. When statistical remedies are needed such as deletion procedures, augmentation methods, and single imputation and multiple imputation procedures, the book also explains how to make sound decisions about their use. Patrick E. McKnight's website offers a periodically updated annotated bibliography on missing data and links to other Web resources that address missing data.

Quasi-Experimentation Charles S. Reichardt, 2019-07-29. Featuring engaging examples from diverse disciplines, this book explains how to use modern approaches to quasi-experimentation to derive credible estimates of treatment effects under the demanding constraints of field settings. Foremost expert Charles S. Reichardt provides an in-depth examination of the design and statistical analysis of pretest-posttest nonequivalent groups, regression discontinuity, and interrupted time series designs. He details their relative strengths and weaknesses and offers practical advice about their use. Comparing quasi-experiments to randomized experiments, Reichardt discusses when and why the former might be a better choice than the latter in the face of the contingencies that are likely to arise in practice. Modern methods for elaborating a research design to remove bias from estimates of treatment effects are described as are tactics for dealing with missing data and noncompliance with treatment assignment. Throughout, mathematical equations are translated into words to enhance accessibility. Adding to its discussion of prototypical quasi-experiments, the book also provides a complete typology of quasi-experimental design options to help the reader craft the best research design to fit the circumstances of a given study.

Multiple Imputation of Missing Data in Practice: Basic Theory and Analysis Strategies Yulei He, Guangyu Zhang, Chiu-Hsieh Hsu, 2021-11-19. Multiple Imputation of Missing Data in Practice: Basic Theory and Analysis Strategies provides a comprehensive introduction to the multiple imputation approach to missing data problems that are often encountered in data analysis. Over the past 40 years or so, multiple imputation has gone through rapid development in both theories and applications. It is nowadays the most versatile, popular, and effective missing data strategy that is used by researchers and practitioners across different fields. There is a strong need to better understand and learn about multiple imputation in the research and practical community. Accessible to a broad audience, this book explains statistical concepts of missing data problems and the associated terminology. It focuses on how to address missing data problems using multiple imputation. It describes the basic theory behind multiple imputation and many commonly used models and methods. These ideas are illustrated by examples from a wide variety of missing data problems. Real data from studies with different designs and features (e.g., cross-sectional data, longitudinal data, complex surveys, survival data, studies subject to measurement error, etc.) are used to demonstrate the methods. In order for readers not only to know how to use the methods but also to understand why multiple imputation works and how to choose appropriate methods, simulation studies are used to assess the performance of the multiple imputation methods. Example datasets and sample programming code are either included in the book or available at a GitHub site: https://github.com/he-zhang-hsu/multiple_imputation_book.

Key Features
Provides an overview of statistical concepts that are useful for better understanding missing data problems and multiple

imputation analysis Provides a detailed discussion on multiple imputation models and methods targeted to different types of missing data problems e.g univariate and multivariate missing data problems missing data in survival analysis longitudinal data complex surveys etc Explores measurement error problems with multiple imputation Discusses analysis strategies for multiple imputation diagnostics Discusses data production issues when the goal of multiple imputation is to release datasets for public use as done by organizations that process and manage large scale surveys with nonresponse problems For some examples illustrative datasets and sample programming code from popular statistical packages e.g SAS R WinBUGS are included in the book For others they are available at a github site https://github.com/he-zhang-hsu/multiple_imputation_book

Population Ecology in Practice Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments

Robust Model-based Analysis of Multivariate Data with Missing Values Hyonggin An, 2004 *Estimation of Standard Errors in Some Multivariate Models with Missing Data* Hong-Lin Su, 1988 *Homogeneity Analysis of Incomplete Data* Jacqueline Meulman, 1982 *Missing Data* John W. Graham, 2012-06-08 Missing data have long plagued those conducting applied research in the social behavioral and health sciences Good missing data analysis solutions are available but practical information about implementation of these solutions has been lacking The objective of Missing Data Analysis and Design is to enable investigators who are non statisticians to implement modern missing data procedures properly in their research and reap the benefits in terms of improved accuracy and statistical power Missing Data Analysis and Design contains essential information for both beginners and advanced readers For researchers with limited missing data analysis experience this book offers an easy to read introduction to the theoretical underpinnings of analysis of missing data provides clear step by step instructions for performing state of the art

multiple imputation analyses and offers practical advice based on over 20 years experience for avoiding and troubleshooting problems For more advanced readers unique discussions of attrition non Monte Carlo techniques for simulations involving missing data evaluation of the benefits of auxiliary variables and highly cost effective planned missing data designs are provided The author lays out missing data theory in a plain English style that is accessible and precise Most analysis described in the book are conducted using the well known statistical software packages SAS and SPSS supplemented by Norm 2 03 and associated Java based automation utilities A related web site contains free downloads of the supplementary software as well as sample empirical data sets and a variety of practical exercises described in the book to enhance and reinforce the reader s learning experience Missing Data Analysis and Design and its web site work together to enable beginners to gain confidence in their ability to conduct missing data analysis and more advanced readers to expand their skill set

Missing Data and Small-Area Estimation Nicholas T. Longford, 2005-08-05 This book evolved from lectures courses and workshops on missing data and small area estimation that I presented during my tenure as the rst C pion Fellow 2000 2002 For the Fellowship I proposed these two topics as areas in which the academic statistics could contribute to the development of government statistics in exchange for access to the operational details and background that would inform the direction and sharpen the focus of a demic research After a few years of involvement I have come to realise that the separation of academic and industrial statistics is not well suited to either party and their integration is the key to progress in both branches Most of the work on this monograph was done while I was a visiting l turer at Massey University Palmerston North New Zealand The hospitality and stimulating academic environment of their Institute of Information S ence and Technology is gratefully acknowledged I could not name all those who commented on my lecture notes and on the presentations themselves apart from them I want to thank the organisers and silent attendees of all the events and with a modicum of reluctance the grey gures who kept inquiring whether I was any nearer the completion of whatever stage I had been foolish enough to attach a date

Demographic Applications of Event History Analysis James Trussell, 1992 Event history analysis the study of individual life histories has developed rapidly over the past few years This book illustrates the use of the new techniques at the frontier of the subject The number of surveys undertaken throughout the world to collect detailed information on the timing of events in individual lives eg fertility surveys migration histories have increased and new methods to analyse such data have developed Unresolved technical and practical issues remain and researchers have limited experience of the new techniques this volume addresses these issues and provides information on the new methodologies The book covers three main areas First it summarizes the work on the incorporation of unmeasured heterogeneity into the analysis of event histories secondly it introduces a series of competitions in which pairs of teams are assigned to analyse the same topic using the same data finally it discusses other methodological issues such as the treatment of missing data the analysis of current status data and the relation between discrete and continuous time models

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