

Wiley Series in Probability and Statistics

# **STATISTICAL ANALYSIS WITH MISSING DATA**

THIRD EDITION

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

WILEY

# Statistical Analysis With Missing Data

**Craig K. Enders**



## **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, 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

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

**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](http://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

**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,Xaibo 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

Statistical Analysis With Missing Data R.J.A. Little, 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

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](http://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

**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 **Multiple Imputation of Missing Data in Practice** 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 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](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](https://github.com/he-zhang-hsu/multiple_imputation_book). **Analysis of Incomplete Multivariate Data** J.L. Schafer, 1997-08-01

The last two decades have seen enormous developments in statistical methods for incomplete data. The EM algorithm and its extensions, multiple imputation, and Markov Chain Monte Carlo provide a set of flexible and reliable tools for inference in large classes of missing data problems. Yet, in practical terms, those developments have had surprisingly little impact on the way most data analysts handle missing values on a routine basis. **Analysis of Incomplete Multivariate Data** helps bridge the gap between theory and practice, making these missing data tools accessible to a broad audience. It presents a unified Bayesian approach to the analysis of incomplete multivariate data, covering datasets in which the variables are continuous.

categorical or both The focus is applied where necessary to help readers thoroughly understand the statistical properties of those methods and the behavior of the accompanying algorithms All techniques are illustrated with real data examples with extended discussion and practical advice All of the algorithms described in this book have been implemented by the author for general use in the statistical languages S and S Plus The software is available free of charge on the Internet

**Missing Data Analysis in Practice** Trivellore Raghunathan, 2015-10-28 Missing Data Analysis in Practice provides practical methods for analyzing missing data along with the heuristic reasoning for understanding the theoretical underpinnings Drawing on his 25 years of experience researching teaching and consulting in quantitative areas the author presents both frequentist and Bayesian perspectives He describes ea

*The Statistical Analysis of Index Variables Containing Missing Data* Jewel Rose Johanns, 1999

**Applied Missing Data Analysis** Craig K. Enders, 2010-04-23 Walking readers step by step through complex concepts this book translates missing data techniques into something that applied researchers and graduate students can understand and utilize in their own research Enders explains the rationale and procedural details for maximum likelihood estimation Bayesian estimation multiple imputation and models for handling missing not at random MNAR data Easy to follow examples and small simulated data sets illustrate the techniques and clarify the underlying principles The companion website includes data files and syntax for the examples in the book as well as up to date information on software The book is accessible to substantive researchers while providing a level of detail that will satisfy quantitative specialists This book will appeal to researchers and graduate students in psychology education management family studies public health sociology and political science It will also serve as a supplemental text for doctoral level courses or seminars in advanced quantitative methods survey analysis longitudinal data analysis and multilevel modeling and as a primary text for doctoral level courses or seminars in missing data

*Statistical Methods for Handling Incomplete Data* Jae Kwang Kim, Jun Shao, 2021-11-18 Due to recent theoretical findings and advances in statistical computing there has been a rapid development of techniques and applications in the area of missing data analysis Statistical Methods for Handling Incomplete Data covers the most up to date statistical theories and computational methods for analyzing incomplete data Features Uses the mean score equation as a building block for developing the theory for missing data analysis Provides comprehensive coverage of computational techniques for missing data analysis Presents a rigorous treatment of imputation techniques including multiple imputation fractional imputation Explores the most recent advances of the propensity score method and estimation techniques for nonignorable missing data Describes a survey sampling application Updated with a new chapter on Data Integration Now includes a chapter on Advanced Topics including kernel ridge regression imputation and neural network model imputation The book is primarily aimed at researchers and graduate students from statistics and could be used as a reference by applied researchers with a good quantitative background It includes many real data examples and simulated examples to help readers understand the methodologies

*The Prevention and Treatment of Missing Data in*



*Clinical Trials* National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Handling Missing Data in Clinical Trials, 2010-12-21 Randomized clinical trials are the primary tool for evaluating new medical interventions Randomization provides for a fair comparison between treatment and control groups balancing out on average distributions of known and unknown factors among the participants Unfortunately these studies often lack a substantial percentage of data This missing data reduces the benefit provided by the randomization and introduces potential biases in the comparison of the treatment groups Missing data can arise for a variety of reasons including the inability or unwillingness of participants to meet appointments for evaluation And in some studies some or all of data collection ceases when participants discontinue study treatment Existing guidelines for the design and conduct of clinical trials and the analysis of the resulting data provide only limited advice on how to handle missing data Thus approaches to the analysis of data with an appreciable amount of missing values tend to be ad hoc and variable The Prevention and Treatment of Missing Data in Clinical Trials concludes that a more principled approach to design and analysis in the presence of missing data is both needed and possible Such an approach needs to focus on two critical elements 1 careful design and conduct to limit the amount and impact of missing data and 2 analysis that makes full use of information on all randomized participants and is based on careful attention to the assumptions about the nature of the missing data underlying estimates of treatment effects In addition to the highest priority recommendations the book offers more detailed recommendations on the conduct of clinical trials and techniques for analysis of trial data

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