

# Measurement Errors in Surveys

PAUL P. BIEMER  
ROBERT M. GROVES  
LARS E. LYBERG  
NANCY A. MATHIOWETZ  
SEYMOUR SUDMAN

# Measurement Errors In Surveys Wiley Series In Probability And Statistics

**Sharon L. Lohr**



## **Measurement Errors In Surveys Wiley Series In Probability And Statistics:**

Measurement Errors in Surveys Paul P. Biemer, Robert M. Groves, Lars E. Lyberg, Nancy A. Mathiowetz, Seymour Sudman, 2013-08-12 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists This book will be an aid to survey statisticians and to research workers who must work with survey data Short Book Reviews International Statistical Institute Measurement Errors in Surveys documents the current state of the field reports new research findings and promotes interdisciplinary exchanges in modeling assessing and reducing measurement errors in surveys Providing a fundamental approach to measurement errors the book features sections on the questionnaire respondents and responses interviewers and other means of data collection the respondent interviewer relationship and the effects of measurement errors on estimation and data analysis     **Survey Research Methodology, 1990-1999** Graham R. Walden, 2002-09-30 Survey research is one of the most widely used research methodologies across the social and behavioral sciences Two trends that have had a major impact on the development of survey methods over the last decade are 1 the application of techniques and theories from cognitive psychology to the understanding and reduction of survey measurement error and 2 the application of new computer and telephony technologies to data collection and analysis These trends and other emerging issues from the 1990 s literature on survey research methods are captured here in 617 detailed annotations to monographs journals government documents dissertations and ERIC documents Annotations include examples from business criminology education health and medicine law library science mass media military science political science psychology sociology social work religion and women s studies The bibliographic entries provide every useful element including series names complete subtitles and overall text page numbers as well as chapter page numbers The extensive annotations are more complete and more detailed than is typical for annotated bibliographies The descriptions include highlights of the study data and sufficient detail to enable the reader to make an informed choice as to whether to seek the full text Appendices include journals cited and the major survey research organizations The annotations are easily accessed through author and subject indexes     The Nonresponse Challenge to Surveys and Statistics Douglas S. Massey, Roger Tourangeau, 2012-12-28 Surveys are the principal source of data not only for social science but for consumer research political polling and federal statistics In response to social and technological trends rates of survey nonresponse have risen markedly in recent years prompting observers to worry about the continued validity of surveys as a tool for data gathering Newspaper stories magazine articles radio programs television broadcasts and Internet blogs are filled with data derived from surveys of one sort or another Reputable media outlets generally indicate whether a survey is representative but much of the data routinely bandied about in the media and on the

Internet are not based on representative samples and are of dubious use in making accurate statements about the populations they purport to represent Surveys are social interactions and like all interactions between people they are embedded within social structures and guided by shared cultural understandings This issue of The ANNALS examines the difficulties with finding willing respondents to these surveys and how the changing structure of society whether it be the changing family structure mass immigration rising inequality or the rise of technology has presented new issues to conducting surveys This volume will be of interest to faculty and students who specialize in sociological movements as well as economic and immigration movements and its effect on surveying **Latent Class Analysis of Survey Error** Paul P. Biemer, 2011-03-16

Combining theoretical methodological and practical aspects Latent Class Analysis of Survey Error successfully guides readers through the accurate interpretation of survey results for quality evaluation and improvement This book is a comprehensive resource on the key statistical tools and techniques employed during the modeling and estimation of classification errors featuring a special focus on both latent class analysis LCA techniques and models for categorical data from complex sample surveys Drawing from his extensive experience in the field of survey methodology the author examines early models for survey measurement error and identifies their similarities and differences as well as their strengths and weaknesses Subsequent chapters treat topics related to modeling estimating and reducing errors in surveys including Measurement error modeling for categorical data The Hui Walter model and other methods for two indicators The EM algorithm and its role in latent class model parameter estimation Latent class models for three or more indicators Techniques for interpretation of model parameter estimates Advanced topics in LCA including sparse data boundary values unidentifiability and local maxima Special considerations for analyzing data from clustered and unequal probability samples with nonresponse The current state of LCA and MLCA multilevel latent class analysis and an insightful discussion on areas for further research Throughout the book more than 100 real world examples describe the presented methods in detail and readers are guided through the use of IEM software to replicate the presented analyses Appendices supply a primer on categorical data analysis and a related Web site houses the IEM software Extensively class tested to ensure an accessible presentation Latent Class Analysis of Survey Error is an excellent book for courses on measurement error and survey methodology at the graduate level The book also serves as a valuable reference for researchers and practitioners working in business government and the social sciences who develop implement or evaluate surveys Wiley Survey of Instrumentation and Measurement Stephen A. Dyer, 2004-03-24 In depth coverage of instrumentation and measurement from the Wiley Encyclopedia of Electrical and Electronics Engineering The Wiley Survey of Instrumentation and Measurement features 97 articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the one truly indispensable reference for electrical engineers Together these articles provide authoritative coverage of the important topic of instrumentation and measurement This collection also for the first time makes this information available to those who do

not have access to the full 24 volume encyclopedia The entire encyclopedia is available online visit [www.interscience.wiley.com](http://www.interscience.wiley.com) EEEE for more details Articles are grouped under sections devoted to the major topics in instrumentation and measurement including Sensors and transducers Signal conditioning General purpose instrumentation and measurement Electrical variables Electromagnetic variables Mechanical variables Time frequency and phase Noise and distortion Power and energy Instrumentation for chemistry and physics Interferometers and spectrometers Microscopy Data acquisition and recording Testing methods The articles collected here provide broad coverage of this important subject and make the Wiley Survey of Instrumentation and Measurement a vital resource for researchers and practitioners alike **Research Paper**

**RMRS** ,1998 *Sampling Statistics* Wayne A. Fuller,2011-09-20 Discover the latest developments and current practices in survey sampling Survey sampling is an important component of research in many fields and as the importance of survey sampling continues to grow sophisticated sampling techniques that are both economical and scientifically reliable are essential to planning statistical research and the design of experiments *Sampling Statistics* presents estimation techniques and sampling concepts to facilitate the application of model based procedures to survey samples The book begins with an introduction to standard probability sampling concepts which provides the foundation for studying samples selected from a finite population The development of the theory of complex sampling methods is detailed and subsequent chapters explore the construction of estimators sample design replication variance estimation and procedures such as nonresponse adjustment and small area estimation where models play a key role A final chapter covers analytic studies in which survey data are used for the estimation of parameters for a subject matter model The author draws upon his extensive experience with survey samples in the book s numerous examples Both the production of general use databases and the analytic study of a limited number of characteristics are discussed Exercises at the end of each chapter allow readers to test their comprehension of the presented concepts and techniques and the references provide further resources for study *Sampling Statistics* is an ideal book for courses in survey sampling at the graduate level It is also a valuable reference for practicing statisticians who analyze survey data or are involved in the design of sample surveys *Regression Graphics* R. Dennis Cook,1998-09-30 An exploration of regression graphics through computer graphics Recent developments in computer technology have stimulated new and exciting uses for graphics in statistical analyses *Regression Graphics* one of the first graduate level textbooks on the subject demonstrates how statisticians both theoretical and applied can use these exciting innovations After developing a relatively new regression context that requires few scope limiting conditions *Regression Graphics* guides readers through the process of analyzing regressions graphically and assessing and selecting models This innovative reference makes use of a wide range of graphical tools including 2D and 3D scatterplots 3D binary response plots and scatterplot matrices Supplemented by a companion ftp site it features numerous data sets and applied examples that are used to elucidate the theory Other important features of this book include Extensive coverage of a relatively new regression context based on

dimension reduction subspaces and sufficient summary plots Graphical regression an iterative visualization process for constructing sufficient regression views Graphics for regressions with a binary response Graphics for model assessment including residual plots Net effects plots for assessing predictor contributions Graphics for predictor and response transformations Inverse regression methods Access to a Web site of supplemental plots data sets and 3D color displays An ideal text for students in graduate level courses on statistical analysis Regression Graphics is also an excellent reference for professional statisticians

**The Oxford Handbook of Polling and Survey Methods** Lonna Rae Atkeson, R. Michael Alvarez, 2018-07-25 The methodologies used to study public opinion are now in flux The primary polling method of the last half century the telephone survey is rapidly becoming obsolete as a data collection method At the same time new methods of contacting potential respondents and obtaining their response are appearing providing a variety of options for scholars and practitioners Generally speaking we are moving from a polling world that was largely interviewer driven over the phone and face to face to predominantly interviewer driven self administered poll environments New methods of data collection however must still deal with fundamental questions to polling methodology and total survey error including sampling selection bias non response error poststratification weighting and questionnaire design features The Oxford Handbook on Polling and Survey Methods brings together a unique mixture of academics and practitioners from various backgrounds academic disciplines and experiences In some sense this is reflective of the interdisciplinary nature of the polling and survey industry polls and surveys are widely used in academia government and the private sector Designing implementing and analyzing high quality accurate and cost effective polls and surveys requires a combination of skills and methodological perspectives Despite the well publicized issues that have cropped up in recent political polling a great deal is known today about how to collect high quality polling and survey data even in complex and difficult environments Divided into four main sections the Handbook draws on the existing research and explores data collection methods It then addresses data analysis and the methods available for combining polling data with other types of data The next section covers analytic issues including the new approaches to studying public opinion ie social media the analysis of open ended questions using text analytic tools and data imputation The final section focuses on the presentation of polling results an area where there is a great deal of innovation A comprehensive overview of the topic this volume highlights current polling trends provides ideas for the development of new and better approaches for measuring modeling and visualizing public opinion and social behavior

**The Sage Handbook of Survey Development and Application** Lucy R. Ford, Terri A. Scandura, 2023-06-29 The SAGE Handbook of Survey Development and Application provides a practical resource that researchers can go to for cutting edge tools to ensure they are employing the best survey research techniques This handbook not only covers the classic and innovational skills and approaches involved at every step of the survey research process but also centres itself around applied how to guidance to aid readers in best practice Chapters engage with a broad range of topics including sampling

issues approaches to establishment of measurement equivalence and the use of online labour pools in survey development With contributions from a global community of leading and emerging scholars across a wide variety of disciplines this Handbook is focused on being applicable and accessible across the social sciences Containing over 120 tables and figures checklists and tutorial guides The SAGE Handbook of Survey Development and Application will serve as a one stop resource for survey research This handbook serves as a touchstone for a variety of fields such as Organizational Behavior Industrial Organizational Psychology Management Psychology Educational Research Marketing Public Policy and others PART 1 Conceptual Issues and Operational Definition PART 2 Research Design Considerations PART 3 Item Development PART 4 Scale Improvement Methods PART 5 Data Collection PART 6 Data Management and Analysis PART 7 Research Production and Dissemination PART 8 Applications

*Mixed-Mode Official Surveys* Barry Schouten, Jan van den Brakel, Bart Buelens, Deirdre Giesen, Annemieke Luiten, Vivian Meertens, 2021-09-27 Mixed mode surveys have become a standard at many statistical institutes However the introduction of multiple modes in one design goes with challenges to both methodology and logistics Mode specific representation and measurement differences become explicit and demand for solutions in data collection design questionnaire design and estimation This is especially true when surveys are repeated and are input to long time series of official statistics So how can statistical institutes deal with such changes What are the origins of mode specific error And how can they be dealt with In this book the authors provide answers to these questions and much more Features Concise introduction to all the key elements of mixed mode survey design and analysis Realistic official statistics examples from three general population surveys Suitable for survey managers and survey statisticians alike An overview of mode specific representation and measurement errors and how to avoid reduce and adjust them

**The SAGE Handbook of Public Opinion Research** Wolfgang Donsbach, Michael W Traugott, 2007-12-18 Some of the most experienced and thoughtful research experts in the world have contributed to this comprehensive Handbook which should have a place on every serious survey researcher's bookshelf Sir Robert Worcester Founder of MORI and President of WAPOR 82 84 This is the book I have been waiting for It not only reflects the state of the art but will most likely also shape public opinion on public opinion research Olof Petersson Professor of political science SNS Stockholm Sweden The Handbook of Public Opinion Research is very authoritative well organized and sensitive to key issues in opinion research around the world It will be my first choice as a general reference book for orienting users and training producers of opinion polls in Southeast Asia Mahar K Mangahas Ph D President of Social Weather Stations Philippines [www.sws.org.ph](http://www.sws.org.ph) This is the most comprehensive book on public opinion research to date Robert Ting Yiu Chung Secretary Treasurer World Association for Public Opinion Research WAPOR Director of Public Opinion Programme The University of Hong Kong Public opinion theory and research are becoming increasingly significant in modern societies as people's attitudes and behaviours become ever more volatile and opinion poll data becomes ever more readily available This major new Handbook is the first to bring together into one volume

the whole field of public opinion theory research methodology and the political and social embeddedness of polls in modern societies It comprehensively maps out the state of the art in contemporary scholarship on these topics With over fifty chapters written by distinguished international researchers both academic and from the commercial sector this Handbook is designed to give the reader an overview of the most important concepts included in and surrounding the term public opinion and its application in modern social research present the basic empirical concepts for assessing public opinion and opinion changes in society provide an overview of the social political and legal status of public opinion research how it is perceived by the public and by journalists and how it is used by governments offer a review of the role and use of surveys for selected special fields of application ranging from their use in legal cases to the use of polls in marketing and campaigns The Handbook of Public Opinion Research provides an indispensable resource for both practitioners and students alike

*Survey Measurements* Uwe Engel, 2015-05-11 Wissenschaftliche Umfragen können keine aussagekräftigen Ergebnisse liefern wenn ihre Datenqualität durch fehlende oder verfallene Antworten beeinträchtigt wird Eine Herausforderung der Sozialforschung besteht darin solche Fehlerquellen zu erkennen und zu kontrollieren Der Band präsentiert Erkenntnisse und Methoden zur Behandlung von Unit Nonresponse Missing Data und verschiedene Arten von Messfehlern im Kontext von Web und Mixed Mode Panel Mobile Web und Faceto Face Befragungen

**Sampling** Sharon L. Lohr, 2019-04-08 This edition is a reprint of the second edition published by Cengage Learning Inc Reprinted with permission What is the unemployment rate How many adults have high blood pressure What is the total area of land planted with soybeans Sampling Design and Analysis tells you how to design and analyze surveys to answer these and other questions This authoritative text used as a standard reference by numerous survey organizations teaches sampling using real data sets from social sciences public opinion research medicine public health economics agriculture ecology and other fields The book is accessible to students from a wide range of statistical backgrounds By appropriate choice of sections it can be used for a graduate class for statistics students or for a class with students from business sociology psychology or biology Readers should be familiar with concepts from an introductory statistics class including linear regression optional sections contain the statistical theory for readers who have studied mathematical statistics Distinctive features include More than 450 exercises In each chapter Introductory Exercises develop skills Working with Data Exercises give practice with data from surveys Working with Theory Exercises allow students to investigate statistical properties of estimators and Projects and Activities Exercises integrate concepts A solutions manual is available An emphasis on survey design Coverage of simple random stratified and cluster sampling ratio estimation constructing survey weights jackknife and bootstrap nonresponse chi squared tests and regression analysis Graphing data from surveys Computer code using SAS software Online supplements containing data sets computer programs and additional material Sharon Lohr the author of *Measuring Crime Behind the Statistics* has published widely about survey sampling and statistical methods for education public policy law and crime She has been recognized as Fellow



of the American Statistical Association elected member of the International Statistical Institute and recipient of the Gertrude M Cox Statistics Award and the Deming Lecturer Award Formerly Dean s Distinguished Professor of Statistics at Arizona State University and a Vice President at Westat she is now a freelance statistical consultant and writer Visit her website at [www.sharonlohr.com](http://www.sharonlohr.com)

**Sample Surveys: Design, Methods and Applications**, 2009-08-31 This new handbook contains the most comprehensive account of sample surveys theory and practice to date It is a second volume on sample surveys with the goal of updating and extending the sampling volume published as volume 6 of the Handbook of Statistics in 1988 The present handbook is divided into two volumes 29A and 29B with a total of 41 chapters covering current developments in almost every aspect of sample surveys with references to important contributions and available software It can serve as a self contained guide to researchers and practitioners with appropriate balance between theory and real life applications Each of the two volumes is divided into three parts with each part preceded by an introduction summarizing the main developments in the areas covered in that part Volume 29A deals with methods of sample selection and data processing with the later including editing and imputation handling of outliers and measurement errors and methods of disclosure control The volume contains also a large variety of applications in specialized areas such as household and business surveys marketing research opinion polls and censuses Volume 29B is concerned with inference distinguishing between design based and model based methods and focusing on specific problems such as small area estimation analysis of longitudinal data categorical data analysis and inference on distribution functions The volume contains also chapters dealing with case control studies asymptotic properties of estimators and decision theoretic aspects Comprehensive account of recent developments in sample survey theory and practice Discusses a wide variety of diverse applications Comprehensive bibliography

**An Assessment of NASA's National Aviation Operations Monitoring Service** National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Committee on NASA's National Aviation Operations Monitoring Service (NAOMS) Project: An Independent Assessment, 2010-01-24 The National Research Council of the National Academies was requested by the National Aeronautics and Space Administration NASA to perform an independent assessment of NASA s National Aviation Operations Monitoring Service NAOMS project which was a survey administered to pilots from April 2001 through December 2004 The NRC reviewed various aspects of the NAOMS project including the survey methodology and conducted a limited analysis of the publicly available survey data An Assessment of NASA s National Aviation Operations Monitoring Service presents the resulting analyses and findings

**Disaster and Emergency Management Methods** Jason D. Rivera, 2021-07-27 Find the answers to disaster and emergency management research questions with Disaster and Emergency Management Methods Written to engage students and to provide a flexible foundation for instructors and practitioners this interdisciplinary textbook provides a holistic understanding of disaster and emergency management research methods used in the field The disaster and emergency management contexts have a host of challenges that affect

the research process that subsequently shape methodological approaches data quality analysis and inferences In this book readers are presented with the considerations that must be made before engaging in the research process in addition to a variety of qualitative and quantitative methodological approaches that are currently being used in the discipline Current relevant and fascinating real world applications provide a window into how each approach is being applied in the field Disaster and Emergency Management Methods serves as an effective way to empower readers to approach their own study of disaster and emergency management research methods with confidence The Total Survey Error Approach Herbert F. Weisberg, 2009-12-29 In 1939 George Gallup's American Institute of Public Opinion published a pamphlet optimistically titled The New Science of Public Opinion Measurement At the time though survey research was in its infancy and only now six decades later can public opinion measurement be appropriately called a science based in part on the development of the total survey error approach Herbert F Weisberg's handbook presents a unified method for conducting good survey research centered on the various types of errors that can occur in surveys from measurement and nonresponse error to coverage and sampling error Each chapter is built on theoretical elements drawn from specific disciplines such as social psychology and statistics and follows through with detailed treatments of the specific types of error and their potential solutions Throughout Weisberg is attentive to survey constraints including time and ethical considerations as well as controversies within the field and the effects of new technology on the survey process from Internet surveys to those completed by phone by mail and in person Practitioners and students will find this comprehensive guide particularly useful now that survey research has assumed a primary place in both public and academic circles

**Swiss National Forest Inventory - Methods and Models of the Fourth Assessment** Christoph Fischer, Berthold Traub, 2019-09-24 The Swiss National Forest Inventory NFI is a forest survey on national level which started in 1982 and has already reached its 5th survey cycle NFI5 It can be characterized as a multisource and multipurpose inventory where information is mainly collected from terrestrial field surveys using permanent sample plots In addition data from aerial photography GIS and forest service questionnaires are also included The NFI's main objective is to provide statistically reliable and sound figures to stakeholders such as politicians researchers ecologists forest service timber industry national and international organizations as well as to international projects such as the Forest Resources Assessment of the United Nations For Switzerland NFI results are typically reported on national and regional level State of the art methods are applied in all fields of data collection which have been proven to be of international interest and have even served as a basis for other European NFIs The presented methods are applicable to any sample based forest inventory around the globe In 2001 the Swiss NFI published its methods for the first time Since then many methodological changes and improvements have been introduced This book describes the complete set of methods and revisions since NFI2 It covers various topics ranging from inventory design and statistics to remote sensing field survey methods and modelling It also describes data quality concepts and the software framework used for data storage

statistical analysis and result presentation      *Handbook of Survey Research* Peter H. Rossi, James D Wright, Andy B. Anderson, 2013-10-22

*Handbook of Survey Research* provides an introduction to the theory and practice of sample survey research. It addresses both the student who desires to master these topics and the practicing survey researcher who needs a source that codifies, rationalizes, and presents existing theory and practice. The handbook can be organized into three major parts. Part 1 sets forth the basic theoretical issues involved in sampling, measurement, and management of survey organizations. Part 2 deals mainly with hands-on how to do it issues: how to draw theoretically acceptable samples, how to write questionnaires, how to combine responses into appropriate scales and indices, how to avoid response effects and measurement errors, how actually to go about gathering survey data, how to avoid missing data, and what to do when you cannot and other topics of a similar nature. Part 3 considers the analysis of survey data with separate chapters for each of the three major multivariate analysis modes and one chapter on the uses of surveys in monitoring overtime trends. This handbook will be valuable both to advanced students and to practicing survey researchers seeking a detailed guide to the major issues in the design and analysis of sample surveys and to current state-of-the-art practices in sample surveys.

## Whispering the Techniques of Language: An Emotional Journey through **Measurement Errors In Surveys Wiley Series In Probability And Statistics**

In a digitally-driven world where monitors reign great and quick interaction drowns out the subtleties of language, the profound secrets and mental nuances hidden within words usually go unheard. However, nestled within the pages of **Measurement Errors In Surveys Wiley Series In Probability And Statistics** a captivating literary treasure blinking with organic feelings, lies a fantastic quest waiting to be undertaken. Written by a skilled wordsmith, this wonderful opus encourages visitors on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the psychological depths of this emotional review, we will embark upon a sincere exploration of the book's core subjects, dissect its fascinating writing type, and yield to the effective resonance it evokes strong within the recesses of readers' hearts.

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