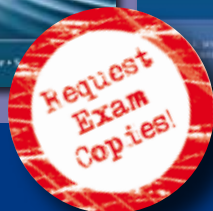
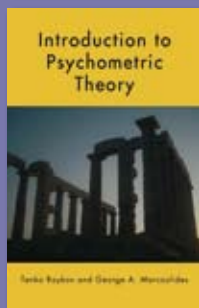
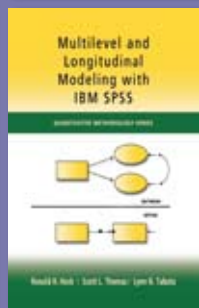
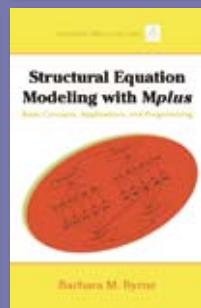
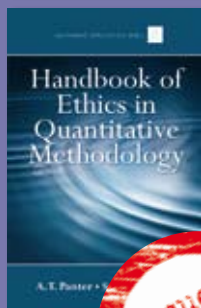
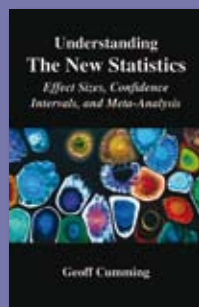
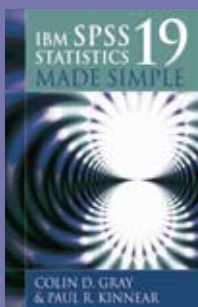


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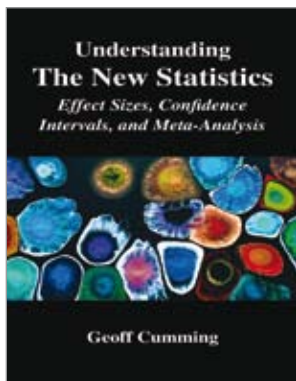
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"I would recommend the Cumming book to students who want to be on the 'cutting edge' of how to write-up statistics. ... Strengths include the author's passion and long history of research into the most effective methods of teaching statistics. ... The quality of the scholarship is excellent." - **Alan Reifman, Texas Tech University, USA**

This is the first book to introduce *the new statistics* – effect sizes, confidence intervals, and meta-analysis – in an accessible way. It is chock full of practical examples and tips on how to analyze and report research results using these techniques. The book is invaluable to readers interested in meeting the new

APA Publication Manual guidelines by adopting the new statistics – which are more informative than null hypothesis significance testing, and becoming widely used in many disciplines.

Accompanying the book is the Exploratory Software for Confidence Intervals (ESCI) package, which is free software that runs under Excel. The book's exercises use ESCI's simulations, which are highly visual and interactive, to engage users and encourage exploration. Working with the simulations strengthens understanding of key statistical ideas. There are also many examples, and detailed guidance to show readers how to analyze their own data using the new statistics, and practical strategies for interpreting the results. A particular strength of the book is its explanation of meta-analysis, using simple diagrams and examples. Understanding meta-analysis is increasingly important, even at undergraduate levels, because medicine, psychology and many other disciplines now use meta-analysis to assemble the evidence needed for evidence-based practice.

The book's pedagogical program, built on cognitive science principles, reinforces learning:

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- Numerous examples reinforce learning, and show that many disciplines are using the new statistics
- Graphs are tied in with ESCI to make important concepts vividly clear and memorable
- Opening overviews and end of chapter take-home messages summarize key points
- Exercises encourage exploration, deep understanding, and practical applications.

This highly accessible book is intended as the core text for any course that emphasizes the new statistics, or as a supplementary text for graduate and/or advanced undergraduate courses in statistics and research methods in departments of psychology, education, human development, nursing, and natural, social, and life sciences. Researchers and practitioners interested in understanding the new statistics, and future published research, will also appreciate this book. A basic familiarity with introductory statistics is assumed.

Contents

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3rd Edition

Timothy C. Urdan, Santa Clara University, USA



"This book delivers on the promise of its title; it is the most clear and engaging communication of the basic principles of statistics that I have seen to date. It is a positive outlier that will greatly benefit teachers and students alike." - **Andrew J. Elliot, University of Rochester, USA**

This inexpensive paperback provides a brief, simple overview of statistics to help readers better understand how statistics work and how to interpret them correctly. Each chapter describes a different statistical technique, ranging from basic concepts like central tendency and describing distributions to more advanced concepts such as *t* tests, regression, repeated measures ANOVA, and factor analysis. Chapters begin with a short description of the statistic and when it should be used, followed by a more in-depth explanation of how the statistic works, ending with an example of the statistic in use and a sample of how the results of analyses might be written up for publication. A glossary of terms and symbols is included.

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- New section on understanding the distribution of data explaining how to use and interpret graphs
- Many more examples, tables, and charts to help students visualize key concepts.

This is an ideal supplement for statistics, research methods, and/or for courses that use statistics taught at the undergraduate or graduate level, or as a reference tool for anyone refreshing their memory about key statistical concepts. The research examples are from psychology, education, and other social and behavioral sciences.

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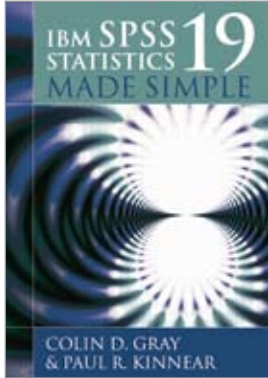
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IBM SPSS Statistics 19 Made Simple

Colin D. Gray & Paul R. Kinnear, both at University of Aberdeen, UK



This new edition of one of the most widely read textbooks in its field introduces the reader to data analysis with the most powerful and versatile statistical package on the market: *IBM SPSS Statistics 19*.

Each new release of SPSS Statistics features new options and other improvements. There remains, nevertheless, a core of fundamental operating principles and techniques which have continued to apply to all releases issued in recent years and have been proved to be worth communicating in a small volume.

This friendly and informal book combines simplicity and clarity of presentation with a comprehensive treatment of the use of SPSS 19 for the analysis and interpretation of data. As in earlier editions, coverage has been extended to address the issues raised by readers since the previous edition. In this edition, there is an introduction to the Analysis of Covariance (ANCOVA).

Each statistical technique is presented in a realistic research context and is fully illustrated with annotated screen shots of SPSS dialog boxes and output. The first chapter sets the scene with a survey of typical research situations, key terms and clear signposts to the location of each technique in the book. It also offers guidance

on the choice of statistical techniques, and advice (based on the American Psychological Association's guidelines) on how to report the results of a statistical analysis. The next chapters introduce the reader to the use of SPSS, beginning with the entry, description and exploration of data. There is also a full description of the capabilities of the versatile Chart Builder. Each of the remaining chapters concentrates on one particular kind of research situation and the statistical techniques that are appropriate.

In summary, *IBM SPSS Statistics 19 Made Simple*

- Gets you started with SPSS.
- Shows you how to describe and explore a data set with the help of SPSS's extensive graphics and data-handling menus.
- Helps you to choose appropriate statistical techniques.
- Warns you of pitfalls arising from the misuse of statistics and misleading graphs.
- Shows you how to report the results of a statistical analysis.
- Shows you how to use Syntax to implement some useful procedures and operations.
- Shows how to use the AMOS package to run path analysis and confirmatory factor analysis.
- Has a comprehensive glossary.

The book's accompanying website contains datasets for the chapters of the book, as well as a large body of exercises (with data sets), and notes on statistical terms. Instructor resources include a PowerPoint lecture course and multiple-choice question tests, which are also available free of charge to lecturers adopting the book and their students. More details will be available at www.psypress.com/spss-made-simple.

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Alan Bryman, University of Leicester, UK & **Duncan Cramer**, Loughborough University, UK



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As with previous editions, Alan Bryman and Duncan Cramer continue to offer a comprehensive and user-friendly introduction to the widely used *IBM SPSS Statistics*. The simple, non-technical approach to quantitative data analysis enables the reader to quickly become familiar with SPSS and with the tests available to them.

- No previous experience of statistics or computing is required as this book provides a step-by-step guide to statistical techniques, including:
- Non-parametric tests
- Correlation
- Simple and multiple regression
- Analysis of variance and covariance
- Factor analysis.

This book comes equipped with a comprehensive range of exercises for further practice and it covers key issues such as sampling, statistical inference, conceptualization and measurement and selection of appropriate tests. The authors have also included a helpful glossary of key terms.

The datasets used in *Quantitative Data Analysis with IBM SPSS 17, 18 and 19* will be available online at www.psypress.com/brymancramer; in addition a set of multiple-choice questions and a chapter-by-chapter PowerPoint lecture course will be available here free of charge to lecturers who adopt the book.

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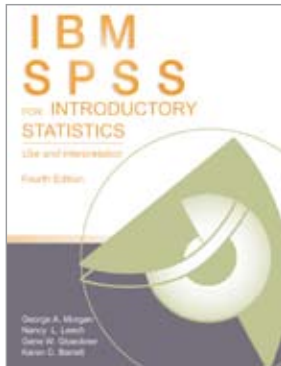
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IBM SPSS for Introductory Statistics

Use and Interpretation

4th Edition

George A. Morgan, Colorado State University, USA; **Nancy L. Leech**, University of Colorado at Denver, USA; **Gene W. Gloeckner**, **Karen C. Barrett**, Colorado State University, USA



"[This] is my 'go to' book ... for concise and comprehensive information on how to run basic statistical analysis, interpret the output and accurately present the findings in written work." - **Joan L. Ellis**, Washington State University, USA

Designed to help students analyze and interpret research data using IBM SPSS, this user-friendly, non-technical book shows readers how to choose the appropriate statistic based on the design, interpret output, and write about the results. The authors prepare readers for all of the steps in the research process, from design and data collection, to writing about the results. Discussions of writing about outputs, data entry and checking, reliability assessment, testing assumptions, and computing descriptive and inferential parametric and nonparametric statistics are included. SPSS syntax, along with the output, is provided for those who prefer this format.

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- Helpful appendices on how to get started with SPSS, write research questions, and create tables and figures.

An ideal supplement for courses in either statistics, research methods, or any course in which SPSS is used, taught in departments of psychology, education, and other social and health sciences, this book is also appreciated by researchers interested in using SPSS for their data analysis.

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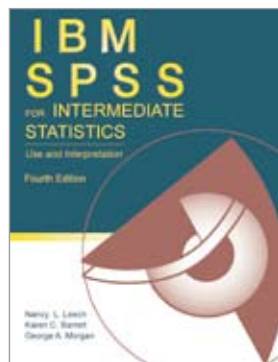
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Designed to help readers analyze *and* interpret research data using SPSS, this user-friendly book shows readers how to choose the appropriate statistic based on the design; perform intermediate and multivariate statistics; interpret output; and write about the results. The book reviews research designs and how to assess the accuracy and reliability of data: whether data meet the assumptions of statistical tests; how to calculate and interpret effect sizes and post-hoc power; and reviews basic statistics for those who need it. Unique chapters on multilevel linear modeling, MANOVA, assessing reliability of data, and factor analysis are provided. SPSS syntax, along with the output, is included for those who prefer this format.

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- More SPSS examples (Version 17), although the analyses can be carried out by any package
- A website with the text data and exercises in SPSS and Excel; SPSS syntax files; a solutions manual, PowerPoint slides with the text figures and tables; and more.

Intended for experimental design and/or statistics courses taught in the behavioral, social, and health sciences, prerequisites include an introduction to research methods and statistics.

Contents

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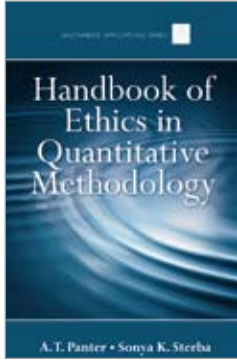
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Handbook of Ethics in Quantitative Methodology

A.T. Panter, University of North Carolina, Chapel Hill, USA & **Sonya K. Sterba**, Vanderbilt University, USA (Eds.)

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"A timely book that fills a notable void – highlighting ethical issues that arise in applying quantitative techniques. Leading researchers have written engaging chapters that probe matters often given less-than-adequate emphasis. A 'must read' for graduate students and professionals alike." - **Keith F. Widaman, University of California at Davis, USA**

"The editors have assembled an impressive panel of contributors. This timely treatment of an important topic is sure to have a prominent place on the shelf of anyone who mentors graduate students or serves as a statistical consultant." - **Linda M. Collins, The Pennsylvania State University, USA**

"This book could be one of the most exciting to emerge in our field for many years, and could set the stage for a whole movement of attention toward treatment of ethical issues in Quantitative Psychology." - **Joe Rodgers, University of Oklahoma, USA**

This comprehensive handbook is the first to provide a practical, interdisciplinary review of ethical issues as they relate to quantitative methodology including how to present evidence for reliability and validity, what comprises an adequate tested

population, and what constitutes scientific knowledge for eliminating biases. The book uses an ethical framework that emphasizes the human cost of quantitative decision making to help researchers understand the specific implications of their choices. The order of the *Handbook* chapters parallels the chronology of the research process: determining the research design and data collection; data analysis; and communicating findings. Each chapter:

- Explores the ethics of a particular topic
- Identifies prevailing methodological issues
- Reviews strategies and approaches for handling such issues and their ethical implications
- Provides one or more case examples
- Outlines plausible approaches to the issue including best-practice solutions.

This handbook appeals to researchers and practitioners in psychology, human development, family studies, health, education, sociology, social work, political science, and business/marketing. It is also a valuable supplement for quantitative methods courses required of all graduate students in these fields.

Contents

A.T. Panter, S.K. Sterba, *Ethics in Quantitative Methodology: An Introduction.* **Part 1. Developing an Ethical Framework for Methodologists.** J.S. Gardenier, *Ethics in Quantitative Professional Practice.* R.L. Rosnow, R. Rosenthal, *Ethical Principles in Data Analysis: An Overview.* **Part 2. Teaching Quantitative Ethics.** L. Hubert, H. Wainer, *A Statistical Guide for the Ethically Perplexed.* **Part 3. Ethics and Research Design Issues.** M.M. Carrig, R.H. Hoyle, *Measurement Choices: Reliability, Validity, and Generalizability.* S.E. Maxwell, K. Kelley, *Ethics and Sample Size Planning.* M.M. Mark, A.L. Lenz-Watson, *Ethics and the Conduct of Experiments and Quasi-Experiments in Field Settings.* G.J. Cizek, S.L. Rosenberg, *Psychometric Methods and High-Stakes Assessment: Contexts and Methods for Ethical Testing Practice.* L.C. Leviton, *Ethics in Program Evaluation.* **Part 4. Ethics and Data Analysis Issues.** S.K. Sterba, S.L. Christ, M.J. Prinstein, M.K. Nock, *Beyond Treating Complex Sampling Designs as Simple Random Samples: Data Analysis and Reporting.* G. Cumming, F. Fidler, *From Hypothesis Testing to Parameter Estimation: An Example of Evidence-Based Practice in Statistics.* J.J. McArdle, *Some Ethical Issues in Factor Analysis.* H. Goldstein, *Ethical Aspects of Multilevel Modeling.* C. Enders, A.C. Gottschall, *The Impact of Missing Data on the Ethical Quality of a Research Study.* J. Pearl, *The Science and Ethics of Causal Modeling.* **Part 5. Ethics and Communicating Findings.** H. Cooper, A. Dent, *Ethical Issues in the Conduct and Reporting of Meta-Analysis.* F. Fidler, *Ethics and Statistical Reform: Lessons from Medicine.* J.R. Levin, *Ethical Issues in Professional Research, Writing, and Publishing.*

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Univariate and Multivariate Applications

2nd Edition

Robert J. Grissom & John J. Kim

both at San Francisco State University, USA

"A thousand copies of this book should be dropped from a low flying airplane over ... the 4,200 college and university campuses in America. ... No ... quantitative professor, researcher, or student should be without this text. ... The writing style is clear ... and a pleasure to read. This book should be required reading for all graduate faculty, students, and workers in the field who want to put science back into their research. ... The first edition was the most complete treatment to date on the subject; the revision will put it in a class of its own." - Shlomo Sawilowsky, Wayne State University, USA

"The text is accurate in every way. ... It could be used as a primary [or] ... supplemental text ... [in the] sciences, education, and social sciences. The strengths include the addition of multivariate information as well as correlation, regression and ANCOVA procedures. ... The material is quite comprehensive. ... I would consider this text for adoption as a supplement ... [and] would also recommend it to my colleagues who teach advanced statistics courses." - Danica G. Hays, Old Dominion University, USA

Noted for its comprehensive coverage, this greatly expanded new edition now covers the use of univariate and multivariate effect sizes. A variety of measures and estimators are reviewed along with their application, interpretation, and limitations. Noted for its practical approach, the book features numerous examples using real data for a variety of variables and designs, to help readers apply the material to their own data. Tips on the use of SPSS, SAS, R, and S-Plus are provided for the more tedious calculations. The book's broad disciplinary appeal results from its inclusion of a variety of examples from psychology, medicine, education, and other social sciences. Special attention is paid to confidence intervals, the statistical assumptions of the methods, and robust estimators of effect sizes. The extensive reference section is appreciated by all.

With more than 40% new material, highlights of the new edition include:

- Three new multivariate chapters covering effect sizes for analysis of covariance, multiple regression/correlation, and multivariate analysis of variance
- More learning tools in each chapter including introductions, summaries, "Tips and Pitfalls" and more conceptual and computational questions
- More coverage of univariate effect sizes, confidence intervals, and effect sizes for repeated measures to reflect their increased use in research
- More software references for calculating effect sizes and their confidence intervals including SPSS, SAS, R, and S-Plus
- The data used in the book is now provided on the web along with suggested calculations for computational practice.

Effect Sizes for Research, 2nd Edition covers standardized and unstandardized differences between means, correlational measures, strength of association, and parametric and nonparametric measures for between- and within-groups data. The book clearly demonstrates how the choice of an appropriate measure depends on such factors as whether variables are categorical, ordinal, or continuous; satisfying assumptions; sampling; and the source of variability in the population. Background information on multivariate statistics is provided for those who need it.

Intended as a resource for professionals, researchers, and advanced students in a variety of fields, this book is also an excellent supplement for advanced statistics courses in psychology, education, the social sciences, business, and medicine. A prerequisite of introductory statistics through factorial analysis of variance and chi-square is recommended.

Contents

Preface. 1. Introduction. 2. Confidence Intervals for Comparing the Averages of Two Groups. 3. The Standardized Difference Between Means. 4. Correlational Effect Sizes and Related Topics. 5. Parametric and Nonparametric Effect Size Measures that Go Beyond Comparing Two Averages. 6. Effect Sizes for One-Way ANOVA and Nonparametric Approaches. 7. Effect Sizes for Factorial Designs. 8. Effect Sizes for Categorical Variables. 9. Effect Sizes for Ordinal Categorical Dependent Variables (Rating Scales). 10. Effect Sizes for Multiple Regression/Correlation. 11. Effect Sizes for Analysis of Covariance. 12. Effect Sizes for Multivariate Analysis of Variance.

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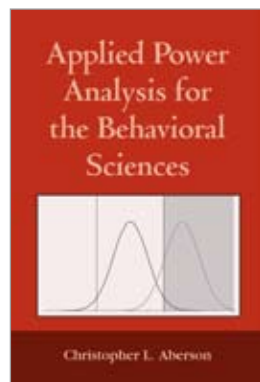
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Applied Power Analysis for the Behavioral Sciences

Christopher L. Aberson, Humboldt State University, USA



"This book presents concepts in a more accessible manner than the other books out there. ... The step-by-step explanations should make it accessible to a wide range of readers, even advanced undergraduates. ... The inclusion of SPSS syntax ... makes the material such that more advanced readers are still interested and engaged." - **Allen I. Huffcutt, Bradley University, USA**

"The book provides users with the means to compute power accurately for many situations. ... The SPSS syntax ... allows the user to see a range of possible outcomes. ... [It] provides methods for dealing with complex data with greater accuracy. ... Appropriate ... as a supplement to any multivariate course." - **Dale Berger, Claremont Graduate University, USA**

"An important addition to every applied worker's tool chest. ... A nice complement to our ANOVA/ANOCOVA course, MANOVA/MANCOVA course." - **Shlomo Sawilowsky, Wayne State University, USA**

This practical guide on conducting power analyses using IBM SPSS was written for students and researchers with limited quantitative backgrounds. Readers will appreciate the coverage of topics that are not well described in competing books,

such as estimating effect sizes, power analyses for complex designs, multiple regression and multi-factor ANOVA approaches, and power for multiple comparisons and simple effects. Practical issues such as how to increase power without increasing sample size, how to report findings, how to derive effect size expectations, and how to support null hypotheses are also addressed. Unlike other texts, this book focuses on the statistical and methodological aspects of the analyses.

Ready-to-use IBM SPSS syntax for conducting analyses are provided at www.psypress.com/applied-power-analysis. Annotations for each syntax protocol review the modifications necessary for researchers to adapt the syntax to their own analyses. Numerous examples enhance accessibility by demonstrating specific issues that must be addressed and by providing interpretations of IBM SPSS output. Several examples address techniques for estimation of power and hand calculations as well. Chapter summaries and key statistics sections also aid in understanding the material.

An ideal supplement for graduate-level research methods, experimental design, psychometrics, and/or advanced/multivariate statistics taught in the behavioral, social, biological, and medical sciences, researchers in these fields also appreciate this book's practical emphasis. A prerequisite of introductory statistics is recommended.

Contents

1. What is Power? Why is Power Important? 2. Chi-square and Tests for Proportions. 3. Independent Samples and Paired *t*-tests. 4. Correlations and Differences between Correlations. 5. Between Subjects ANOVA (One Factor, Two or more Factors). 6. Within Subjects Designs. 7. Mixed Model ANOVA and Multivariate ANOVA. 8. Multiple Regression. 9. Covariate Analyses and Regression Interactions. 10. Precision Analysis for Confidence Intervals. 11. Additional Issues and Resources.

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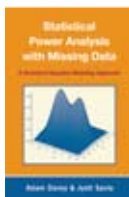
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Categorical Data Analysis for the Behavioral and Social Sciences

Razia Azen & Cindy M. Walker, both at the University of Wisconsin, Milwaukee, USA



"This book fills an important need for a practitioner-oriented book on categorical data analyses. It not only could serve as an excellent resource for researchers working with categorical data, but would also make an excellent text for a graduate course in categorical data analysis." - **Terry Ackerman, University of North Carolina - Greensboro, USA**

"It fills a significant gap in the market for a user-friendly categorical data analysis book.... This book may indeed be a widely used textbook in many fields, especially the social sciences and education." - **Sara Templin, University of Alabama, USA**

Featuring a practical approach with numerous examples, this book focuses on helping the reader develop a conceptual, rather than technical, understanding of categorical methods, making it a much more accessible text than others on the market. The authors cover common categorical analyses and emphasize specific research questions that can be addressed by each analytic procedure so that readers are able to address the research questions they wish to answer. To achieve this goal, the authors:

- Review the theoretical implications and assumptions underlying each of the procedures
- Present each concept in general terms and illustrate each with a practical example
- Demonstrate the analyses using SPSS and SAS and show the interpretation of the results provided by these programs.

A 'Look Ahead' section at the beginning of each chapter provides an overview of the material. This is followed by research questions that can be addressed using the procedure(s) covered in the chapter. A theoretical presentation of the material is provided and illustrated using realistic examples from the behavioral and social sciences. To enhance accessibility, the new procedures introduced are related to procedures covered in earlier statistics courses. Practical examples demonstrate how to obtain and interpret output in both SPSS and SAS. The emphasis on the relationship between the initial research question, the use of software, and the interpretation of the output as it relates to the initial research question allows readers to easily apply the material to their own research. The datasets for the chapter examples using SAS 9.1.3 and IBM SPSS 18 are available on the book's website. These datasets and syntax allow readers to run the programs and obtain the output. End-of-chapter exercises assist in understanding the material covered in each chapter.

This book is written for those without an extensive mathematical background, and is ideal for graduate courses in categorical data analysis or cross-classified data analysis taught in departments of psychology, human development and family studies, sociology, education, and business.

Contents

1. Introduction and Overview. 2. Probability Distributions. 3. Proportions, Estimation and Goodness-of-Fit. 4. Association Between Two Categorical Variables. 5. Association Between Three Categorical Variables. 6. Modeling and the Generalized Linear Model. 7. Log-Linear Models. 8. Logistic Regression with Continuous Predictors. 9. Logistic Regression with Categorical Predictors. 10. Logistic Regression for Multicategory Outcomes. Appendix.

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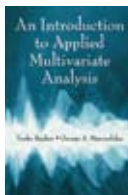
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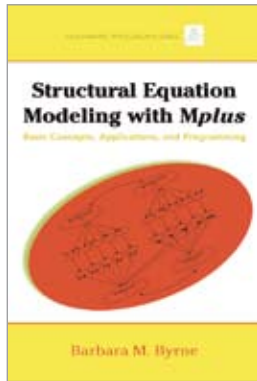
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"A hallmark of Byrne's books are their accessibility to new users. ... Byrne has done a great service to the field by bringing thousands of students and researchers to structural equation modeling through her clear writing and accessible examples. This book will be another contribution along those same lines. ... I will definitely ... recommend it to [those] who want to learn SEM or Mplus (or both). I field many, many questions every week that could be answered by simply referring the asker to a book like Byrne's." - Kristopher J. Preacher, University of Kansas, USA

Modeled after Barbara Byrne's other best-selling structural equation modeling (SEM) books, this practical guide reviews the basic concepts and applications of SEM using Mplus Version 6. The author reviews SEM applications based on actual data taken

from her own research. Using non-mathematical language, it is written for the novice SEM user. With each application chapter, the author 'walks' the reader through all steps involved in testing the SEM model, including:

- An explanation of the issues addressed
- Illustrated and annotated testing of the hypothesized and post hoc models
- Explanation and interpretation of all Mplus input and output files
- Important caveats pertinent to the SEM application under study
- A description of the data and reference upon which the model was based
- The corresponding data and syntax files available on the book's website.

Intended for researchers, practitioners, and students who use SEM and Mplus in their work, this book is an ideal resource for graduate level courses on SEM taught in departments of psychology, education, business, and other social and health sciences and/or as a supplement for courses on applied statistics, multivariate statistics, intermediate or advanced statistics, and/or research design. This book is appropriate for those having limited or no previous exposure to either SEM or Mplus, although a prerequisite of basic statistics through regression analysis is recommended. It serves as an invaluable companion to the Mplus User's Guide, as well as to any SEM textbook.

Contents

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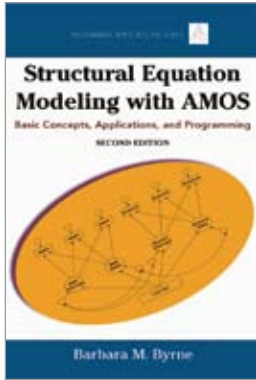
Structural Equation Modeling With AMOS

Basic Concepts, Applications, and Programming

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"This ... much anticipated and timely updating of the widely read first edition ... is characterized by the same strengths ... the thorough and accessible presentation of a comprehensive range of topics based on real empirical data. Dr. Byrne's book is indispensable to any applied researcher using these techniques in practice." - Patrick Curran, University of North Carolina, USA

This bestseller provides a practical guide to the basic concepts of structural equation modeling (SEM) and the AMOS program. The author 'walks' the reader through a variety of SEM applications based on actual data taken from her own research. Noted for its easy-to-follow approach, this book is written for the novice SEM user. Each application is accompanied by:

- An explanation of the issues addressed
- A schematic representation of the models tested
- AMOS input and output with accompanying interpretation and explanation
- Use and function of the icons in the AMOS toolbar and their related pull-down menus
- The data upon which the model was based, as well as the related published reference.

Highlights of the 2nd edition include:

- All-new screen shots from the AMOS program (Versions 17 & 18)
- All data files now available online
- Application of a multitrait-multimethod model, latent growth curve model, and second-order model based on categorical data.

Intended for researchers, practitioners, and students who use SEM and AMOS in their work, this is an ideal resource for courses on SEM taught at the graduate level in psychology, education, business, and other applied social and health sciences and/or as a supplement in other courses on advanced statistics/ research design. A prerequisite of statistics through regression analysis is recommended.

Contents

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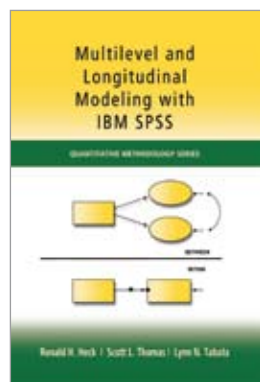
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Multilevel and Longitudinal Modeling with IBM SPSS

Ronald H. Heck, University of Hawai'i at Manoa, USA; **Scott L. Thomas**, Claremont Graduate University, USA; **Lynn N. Tabata**, University of Hawai'i at Manoa, USA

QUANTITATIVE METHODOLOGY SERIES



"With its thorough coverage of the statistical underpinnings of multilevel modeling and the detailed step-by-step instructions on how to analyze data with IBM SPSS, this text is a goldmine for graduate instruction!" - **Laura M. Stapleton**, University of Maryland, Baltimore County, USA

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"I would purchase the book and require it for my courses. ... It is a unique contribution to the field. ... I wish I had thought of writing it first!" - **Dick Carpenter**, University of Colorado, Colorado Springs, USA

This is the first book to demonstrate how to use the multilevel and longitudinal modeling techniques available in IBM SPSS Version 18. Annotated screen shots with all of the key output provide readers with a step-by-step understanding of each technique as they navigate through the program. Diagnostic tools, data management issues, and related graphics are introduced throughout. SPSS commands show the flow of the menu structure and how to facilitate model building. Annotated syntax is also available for those who prefer this approach. Most chapters feature an extended example that show readers the context and rationale of the research questions and the steps around which the analyses are structured. The text and syntax examples are available at www.psypress.com/multilevel-modeling-techniques.

Ideal as a supplementary text for graduate level courses on multilevel, longitudinal, latent variable modeling, multivariate statistics, and/or advanced quantitative techniques taught in departments of psychology, business, education, health, and sociology, this book's practical approach will also appeal to researchers in these fields.

Contents

1. Introduction to Multilevel and Longitudinal Modeling with IBM SPSS. 2. Preparing and Examining the Data for Multilevel Analyses. 3. Defining a Basic Two-level Multilevel Regression Model. 4. Three-level Univariate Regression Models. 5. Examining Individual Change with Repeated Measures Data. 6. Methods for Examining Organizational-level Change. 7. Multivariate Multilevel Models. 8. Cross-classified Multilevel Models. 9. Concluding Thoughts. Appendixes. A: Syntax Statements. B: Model Comparisons Across Software Applications.

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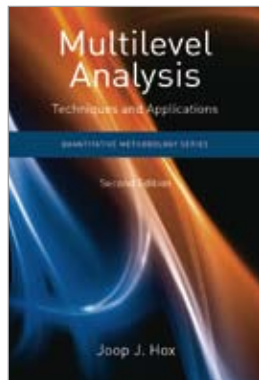
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"One of the most readable texts on multilevel analysis. Hox does a masterful job of making the complex palatable. This book is a great addition for the practitioner and methodologist alike." - J. Kyle Roberts, Southern Methodist University, USA

Noted as an accessible introduction to multilevel techniques, this book also includes advanced extensions, making it useful as both an introduction and as a reference guide. Basic models and examples are discussed with an emphasis on understanding the methodological and statistical issues involved in using these models. The estimation and interpretation of multilevel models is demonstrated using realistic examples from various disciplines. For example, readers will find datasets on stress in hospitals, GPA scores, survey responses, street safety, epilepsy, divorce, and sociometric scores. The datasets are available on www.joophox.net in SPSS, HLM, MLwiN, LISREL and/or Mplus files. Readers are introduced to both the multilevel regression model and multilevel structural models.

Highlights of the 2nd edition include:

- New chapters on multilevel models for ordinal and count data and multilevel survival analysis
- Updated chapters on multilevel structural equation modeling that reflect the technical progress of the last few years
- Some simpler examples have been added to help the novice, whilst the more complex examples that combine more than one problem have been retained
- A new section on multivariate meta-analysis
- Expanded chapter on the logistic model for dichotomous data and proportions with new estimation methods
- An updated website at www.joophox.net with datasets for all the text examples and instructor resources.

Ideal for courses on multilevel modeling taught in psychology, education, sociology, the health sciences, and business, the extensions also make this a favorite resource for researchers in these disciplines. A basic understanding of ANOVA and multiple regression is assumed. The section on multilevel SEM assumes a basic understanding of SEM.

Contents

1. Introduction to Multilevel Analysis. 2. The Basic Two-level Regression Model. 3. Estimation and Hypothesis Testing in Multilevel Regression. 4. Some Important Methodological and Statistical Issues. 5. Analyzing Longitudinal Data. 6. The Multilevel Generalized Linear Model for Dichotomous Data and Proportions. 7. The Multilevel Generalized Linear Model for Categorical and Count Data. 8. Multilevel Survival Analysis. 9. Cross-classified Multilevel Models. 10. Multivariate Multilevel Regression Models. 11. The Multilevel Approach to Meta-analysis. 12. Sample Sizes and Power Analysis in Multilevel Regression. 13. Advanced Issues in Estimation and Testing. 14. Multilevel Factor Models. 15. Multilevel Path Models. 16. Latent Curve Models.

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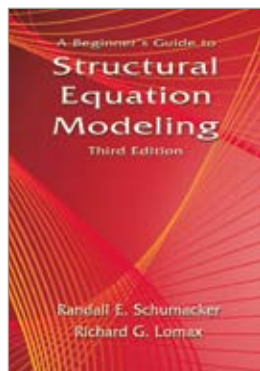
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A Beginner's Guide to Structural Equation Modeling

3rd Edition

Randall Schumacker, University of Alabama, USA & **Richard G. Lomax**, The Ohio State University, USA



"The authors' considerable experience as modelers and teachers really shines throughout this edition, as reflected in the accessibility and coverage of the writing, the extensive practical software examples, and the useful troubleshooting and reporting tips." - **Gregory R. Hancock**, University of Maryland, USA

"The authors guide us through SEM basics to more advanced techniques in an easily comprehensible style. As such, it is a great resource for both novice and veteran users of SEM." - **Maria Regina Reyes**, Yale University, USA

This bestseller introduces readers to structural equation modeling (SEM) so they can conduct their own analysis and critique related research. Noted for its accessible, applied approach, chapters cover basic concepts and practices and computer input/output from Lisrel 8.8 in the examples. Each chapter features an outline, key concepts, a summary, numerous examples from a variety of disciplines, and tables and figures, including path diagrams, to assist with conceptual understanding.

Highlights of the 3rd edition include:

- A website with raw datasets for the book's examples and exercises so they can be used with any SEM program, all of the book's exercises, and answers to all of the exercises for instructors only
- Troubleshooting tips on how to address the most frequently encountered problems
- Examples now reference the free student version of Lisrel 8.8
- Expanded coverage with more on multiple-group, multi-level, and mixture modeling, second-order and dynamic factor models, and Monte Carlo methods
- Increased coverage of sample size and power and reporting research
- Journal article references help readers better understand published research
- 25% new exercises with answers to half in the book.

Designed for introductory graduate-level courses in SEM taught in psychology, education, business, and the social and healthcare sciences, this practical book also appeals to researchers in these disciplines. An understanding of correlation is assumed.

Contents

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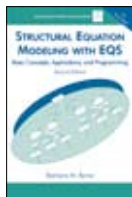
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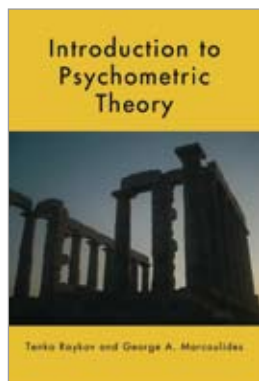
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Introduction to Psychometric Theory

Tenko Raykov, Michigan State University, USA & **George A. Marcoulides**, University of California, Riverside, USA



"The existing texts are either too dated [or] too inaccessible. ... The quality of the scholarship ... is simply first-rate. ... The coverage is right on. ... The writing is superb and accessible. The ability to work through each example using the authors' datasets is invaluable. ... I would adopt this text and use it to reinvigorate my own course. It promises to provide a great opportunity to refresh the way we teach this material." - **Scott L. Thomas, Claremont Graduate University, USA**

This is a state-of-the-art introduction to educational and psychological testing and measurement theory for those with limited or no familiarity with the mathematical and statistical procedures involved in measurement and testing. It introduces psychometric theory using a latent variable modeling (LVM) framework and emphasizes interval estimation throughout, so as to better prepare readers for studying more advanced topics later in their careers. Featuring numerous examples, it presents an applied approach to conducting testing and measurement.

To reflect the growing use of statistical software in psychometrics, the authors introduce the use of *Mplus* after the first few chapters. IBM SPSS, SAS, and R

are also featured in several chapters. Software codes and associated outputs are reviewed throughout to enhance comprehension. The data used in the book can be downloaded from www.psypress.com/psychometric-theory. PowerPoint lecture slides are also available to instructors on the website.

The authors rely on LVM when discussing fundamental concepts such as exploratory and confirmatory factor analysis, test theory, generalizability theory, reliability and validity, interval estimation, nonlinear factor analysis, generalized linear modeling, and item response theory. A brief introduction to R is also provided.

This text is for advanced undergraduate and/or graduate courses in psychometrics, testing and measurement, measurement theory, psychological testing, and/or educational and/or psychological measurement taught in departments of psychology, education, human development, epidemiology, business, and marketing. Prerequisites include an introduction to statistics with exposure to regression analysis and ANOVA. Familiarity with SPSS, SAS, STATA, or R is beneficial.

Contents

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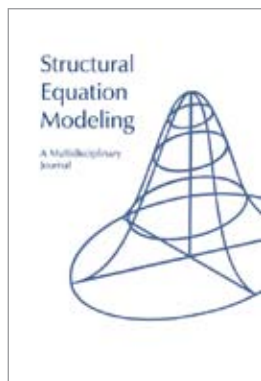
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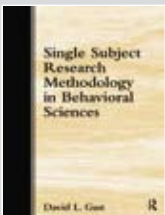
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