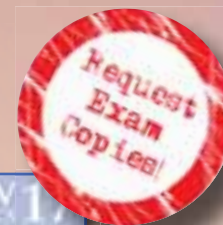


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## 2009 – 2010



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# Introductory & Intermediate Statistics

## Data Analysis

### A Model Comparison Approach

2nd Edition

**Charles M. Judd, Gary H. McClelland**, University of Colorado at Boulder, USA; **Carey S. Ryan**, University of Nebraska at Omaha, USA



*"This text's focus on a unifying framework and nonthreatening style sets it apart. I would certainly recommend this book to a student or colleague struggling to gain an intuitive understanding of the concepts. The original edition was popular and influential. I expect the 2nd edition will be as well."*

- **Kristopher J. Preacher**, University of Kansas

This completely rewritten classic text features many new examples, insights and topics including mediational, categorical, and multilevel models. Substantially reorganized, this edition provides a briefer, streamlined examination of data analysis.

Noted for its model-comparison approach and unified framework based on the general linear model, the book provides readers with a greater understanding of a variety of statistical procedures. This consistent framework is used throughout to develop fewer but more powerful model building techniques. The authors show how all analysis of variance and multiple regression can be accomplished within this framework.

The book is appreciated for its detailed treatment of ANOVA, multiple regression, nonindependent observations, interactive and nonlinear models of data, and its guidance for treating outliers.

Intended for advanced undergraduate or graduate courses on data analysis, statistics, and/or quantitative methods taught in psychology, education, or other behavioral and social science departments, a working knowledge of basic algebra and multiple regression is assumed.

A password-protected website featuring additional examples and problems with data sets, lecture notes, PowerPoint presentations, and class-tested exam questions is available to adopters. This material uses SAS but can easily be adapted to other programs.

#### Contents

1. Introduction to Data Analysis. 2. Simple Models: Definitions of Error and Parameter Estimates. 3. Simple Models: Models of Error and Sampling Distributions. 4. Simple Models: Statistical Inferences about Parameter Values. 5. Simple Regression: Estimating Models with a Single Continuous Predictor. 6. Multiple Regression: Models with Multiple Continuous Predictors. 7. Moderated and Nonlinear Regression Models. 8. One-Way ANOVA: Models with a Single Categorical Predictor. 9. Factorial ANOVA: Models with Multiple Categorical Predictors and Product Terms. 10. Models with Continuous and Categorical Predictors: ANCOVA. 11. Repeated-Measures ANOVA: Models with Nonindependent Errors. 12. Continuous Predictors with Nonindependent Observations. 13. Outliers and Ill-Mannered Error.

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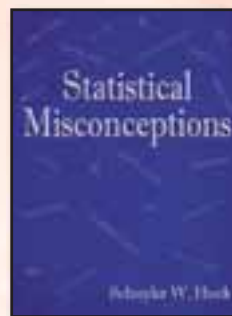
Hb: 978-0-8058-3388-1: \$59.95

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## Statistical Misconceptions

**Schuyler W. Huck**

University of Tennessee, USA



*"There is a great need for a text to discuss the misconceptions in order to eliminate the myths. ... The author writes exceptionally well."* - **Nancy L. Leech**, University of Colorado at Denver

Brief and inexpensive, this engaging book helps readers identify and then discard fifty-two misconceptions about data and statistics. The focus is on major concepts contained in typical courses in statistics, research methods, or quantitative analysis. Fun interactive Internet exercises that further promote undoing the misconceptions are found on the book's website.

The author's accessible discussion of each

misconception has five parts:

- *The Misconception* – a brief description of the misunderstanding
- *Evidence that the Misconception Exists* – examples and claimed prevalence
- *Why the Misconception is Dangerous* – consequence of having the misunderstanding
- *Undoing the Misconception* – how to think correctly about the concept
- *Internet Assignment* - an interactive activity to help readers gain a firm grasp of the statistical concept and overcome the misconception.

The misconceptions are grouped into twelve chapters that match the topics typically taught in introductory/intermediate courses. However, each of the fifty-two discussions is self-contained, thus allowing the misconceptions to be covered in any order without confusing the reader. Organized and presented in this manner, the book is an ideal supplement for any standard textbook.

*Statistical Misconceptions* is appropriate for courses taught in a variety of disciplines including psychology, medicine, education, nursing, business, and the social sciences.

#### Contents

Part 1. Descriptive Statistics. Part 2. Distributional Shape. Part 3. Bivariate Correlation. Part 4. Reliability and Validity. Part 5. Probability. Part 6. Sampling. Part 7. Estimation. Part 8. Hypothesis Testing. Part 9. t-Tests Involving One or Two Means. Part 10. ANOVA and ANCOVA. Part 11. Practical Significance, Power, and Effect Size. Part 12. Regression.

2008: 6x9: 312pp

Hb: 978-0-8058-5902-7: \$59.95

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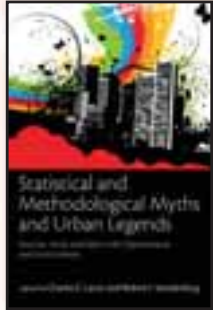
## See Also

**Research Design and Statistical Analysis, 3rd Edition** by Myers et al. (p.8)

# Statistical and Methodological Myths and Urban Legends

## Doctrine, Verity and Fable in Organizational and Social Sciences

Charles E. Lance & Robert J. Vandenberg (Eds.)  
University of Georgia, USA



"Owning a copy of this book is essential for any researcher interested in issues regarding statistics and methods. It is beneficial as well for instructors." - **Stephen A. Truhon, PsycCritiques**

This book provides an up-to-date review of commonly undertaken methodological and statistical practices that are sustained, in part, upon sound rationale and justification and, in part, upon unfounded lore. Historically, there is a kernel of truth to most of these legends, but in many cases that truth has been long forgotten, ignored or embellished beyond recognition.

This book examines several such legends. Each chapter is organized to address: (a) what the legend is that "we (almost) all know to be true"; (b) what the "kernel of truth" is to each legend; (c) what the myths are that have developed around this kernel of truth; and (d) what the state of the practice should be.

### Contents

**Part 1. Statistical Issues.** *D.A. Newman*, Missing Data Techniques and Low Response Rates: The Role of Systematic Nonresponse Parameters. *M.J. Zickar, A.A. Broadfoot*, The Partial Revival of a Dead Horse? Comparing Classical Test Theory and Item Response Theory. *D.L. Bandalos, M.R. Boehm*, Four Common Misconceptions in Exploratory Factor Analysis. *A.W. Meade, T.S. Behrend, C.E. Lance*, Dr. StrangeLOVE, or: How I Learned to Stop Worrying and Love Omitted Variables. *J.M. LeBreton, J. Wu, M.N. Bing*, The Truth(s) on Testing for Mediation in the Social and Organizational Sciences. *J.R. Edwards*, Seven Deadly Myths of Testing Moderation in Organizational Research. *R.J. Vandenberg, D.M. Grelle*, Alternative Model Specifications in Structural Equation Modeling: Facts, Fictions, and Truth. *R.S. Landis, B.D. Edwards, J.M. Cortina*, On the Practice of Allowing Correlated Residuals Among Indicators in Structural Equation Models. **Part 2. Methodological Issues.** *L.T. Eby, C.S. Hurst, M.M. Butts*, Qualitative Research: The Red-headed Stepchild in Organizational and Social Science Research? *S. Highhouse, J.Z. Gillespie*, Do Samples Really Matter That Much? *H. Aguinis, E.E. Harden*, Sample Size Rules of Thumb: Evaluating Three Common Practices. *J.M. Cortina, R.S. Landis*, When Small Effect Sizes Tell a Big Story, and When Large Effect Sizes Don't. *D. Chan*, Why Ask Me? Are Self-Report Data Really that Bad? *C.E. Lance, L.E. Baranik, A.R. Lau, E.A. Scharlau*, If It Ain't Trait It Must Be Method: (Mis)application of the Multitrait-Multimethod Design in Organizational Research. *M.M. Butts, T.W.H. Ng* Chopped Liver? OK. Chopped Data? Not OK.

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## A Modern Approach

3rd Edition

James P. Stevens  
University of Cincinnati, USA



"Stevens does an excellent job showing students how to use and read computer output. ... A strength of this book is the author's very clear explanation of power analysis. ... The author's presentation style is very readable and easy to follow." - **The American Statistician**

This bestselling textbook is written for those who use, rather than develop, statistical techniques. Dr. Stevens focuses on a conceptual understanding of the material rather than on proving the results. SAS and SPSS are an integral part of each chapter. Definitional formulas are used on small data sets to provide conceptual insight into what is being measured.

### Highlights of the 3rd edition include:

- A new chapter on hierarchical linear modeling
- A CD containing all of the book's data sets
- New coverage of how to cross validate multiple regression results with SPSS and a new section on model selection (Chapter 6)
- More exercises in each chapter.

Intended for intermediate statistics or statistics II courses taught in departments of psychology, education, business, and other social and behavioral sciences, a prerequisite of introductory statistics is required. A complete answer key is available to adopters upon request.

### Contents

1. Introduction. 2. One Way Analysis of Variance. 3. Power Analysis. 4. Factorial Analysis of Variance. 5. Repeated Measures Analysis. 6. Simple and Multiple Regression. 7. Analysis of Covariance. 8. Hierarchical Linear Modeling. Appendix A. Data Sets. Appendix B. Statistical Tables. Appendix C. Power Tables.

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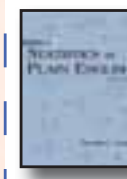
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# PASW Statistics (Formerly SPSS) & Other Computer Applications

**New edition!**

## SPSS for Psychologists

4th Edition

**Nicola Brace**, Open University, UK; **Richard Kemp**, University of New South Wales, Sydney, Australia; **Rosemary Snelgar**, University of Westminster, UK



*"This is the clearest guide to using SPSS I have found. ... This text is ideal for all levels of an undergraduate degree and beyond."* - **Fhionna Moore**, Lecturer in Psychology, University of Abertay Dundee

The new edition of this best-selling guide carefully leads the user through the process of using SPSS (now called PASW) versions 16 and 17 to analyze psychological data. The authors review the basic issues regarding design and proceed through all of the major statistical techniques used in psychology, from introductory to advanced level.

### This 4th edition:

- Covers SPSS (now called PASW) versions 16 and 17 and is backward compatible with other versions
- Focuses specifically on the needs of psychologists and psychology students
- Features a new color layout and chapter tabs for easy reading and navigation
- Displays annotated screenshots and key 'tip' boxes to help students track their progress and avoid common pitfalls
- Provides expanded coverage of graphing and guides students through reporting the outcome of statistical analysis
- Sets SPSS in the context of research design and statistics, and discusses the rationale and use of each test throughout.

Comprehensive in coverage, the book reviews advanced statistical material as well as issues related to research design, data entry, data handling, data manipulation and modification in SPSS. The book highlights the differences between the versions of SPSS and includes coverage of reliability measures, partial correlations, and using statistics for scale constructions.

Each statistical test features a brief description, an example of typical or actual research that might be analyzed using the test, and step-by-step instructions on how to perform the test using SPSS. Numerous screenshots and detailed descriptions of the steps required to perform the test, are included. Annotated examples of SPSS output help the reader understand and report the results of their analyses. Information on how to insert output into a text document is also included. A number of sample exercises, datasets, and other useful information is found at [www.palgrave.com/psychology/brace](http://www.palgrave.com/psychology/brace).

### Contents

1. Introduction. 2. Data Entry in SPSS. 3. Exploring Data in SPSS. 4. Data Handling. 5. Tests of Difference for Two Sample Designs. 6. Tests of Correlation. 7. Tests for Nominal Data. 8. Analysis of Variance. 9. Multiple Regression. 10. Analysis of Covariance and Multivariate Analysis of Variance. 11. Discriminant Analysis and Logistic Regression. 12. Factor Analysis. 13. Beyond the Basics.

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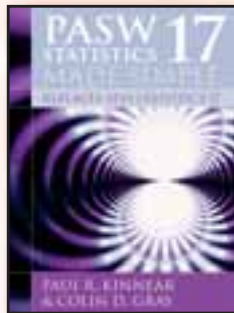
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## PASW Statistics 17 Made Simple (replaces SPSS Statistics 17)

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

SPSS is now PASW Statistics!



Reflecting the latest developments in statistics software from SPSS Inc., this new edition of one of the most widely read textbooks in its field keeps the reader abreast of the latest improvements in PASW Statistics 17 (the new name for SPSS Statistics 17).

This friendly and informal textbook is a non-technical and readable introduction to one of the most powerful and versatile statistical packages on the market. The new edition combines clarity of presentation with coverage of the latest improvements in the software. Where necessary, the coverage has been extended to include topics

in which our readers have expressed particular interest. Coverage of the use of the control language or syntax has been extended to show the reader how to use the improved PASW syntax editor. Whilst discussing new features, the book will continue to be useful to readers using SPSS 16 and earlier versions.

Each statistical technique is presented in a realistic research context and fully illustrated with screen shots of PASW dialog boxes and output. The book provides guidance on the choice of statistical techniques and advice (based on the APA guidelines) on how to report the results of statistical analyses. The first chapter presents a survey of typical research situations, key terms, and advice on the choice of statistical techniques. The next chapters introduce the reader to the use of PASW, beginning with the entry, description and exploration of data. There is a full description of the capabilities of the Chart Builder. The remaining chapters concentrate on specific research situations and the statistical techniques appropriate to them.

*PASW Statistics 17 Made Simple:*

- Gets you started with PASW
- Shows you how to run an exploratory data analysis (EDA) using PASW's extensive graphics and data-handling menus
- Reviews the elements of statistical inference
- Helps you to choose appropriate statistical techniques
- Warns you of the pitfalls arising from the misuse of statistics
- Shows you how to report the results of a statistical analysis
- Shows you how to use syntax to implement some useful procedures and operations
- Has a comprehensive index and glossary.

The book is accompanied by online instructor resources, including a PowerPoint lecture course, a multiple-choice question bank, and a set of exercises to familiarize the reader with inputting data and choosing statistical techniques.

### Contents

1. Introduction. 2. Getting Started with PASW (Formerly SPSS) Statistics 17.0. 3. Editing and Manipulating Files. 4. Exploring Your Data. 5. Graphs and Charts. 6. Comparing Averages: Two-Sample and One-Sample Tests. 7. The One-Way ANOVA. 8. Between Subjects Factorial Experiments. 9. Within Subjects Experiments. 10. Mixed Factorial Experiments. 11. Measuring Statistical Association. 12. Regression. 13. Analyses of Multiway Frequency Tables and Multiple Response Sets. 14. Discriminant Analysis and Logistic Regression. 15. Latent Variables: Exploratory Factor Analysis and Canonical Correlation. Appendix. Glossary.

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## Quantitative Data Analysis with SPSS 14, 15 & 16

### A Guide for Social Scientists

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



*"Alan Bryman and Duncan Cramer offer a clear, concise yet impressively comprehensive introduction to statistical theory, data manipulation and quantitative analysis (including advanced multivariate techniques) for the three latest versions of SPSS." - Alistair Harvey, Department of Psychology, University of Winchester*

This edition accommodates the needs of users of SPSS Releases 14, 15 and 16, whilst still being applicable to those using SPSS Releases 10–13.

The authors provide a non-technical approach to quantitative data analysis and a user-friendly introduction to SPSS. No previous familiarity with computing or statistics is required to benefit from this step-by-step guide to statistical techniques, which includes:

- Non-parametric tests
- Correlation
- Simple and multiple regression
- Analysis of variance and covariance
- Factor analysis.

The authors discuss key issues facing the newcomer to research, such as how to decide which statistical procedure is suitable, and how to interpret the subsequent results. Each chapter contains worked examples to illustrate the points raised and ends with a comprehensive range of exercises which allow the reader to test their understanding of the topic. For the first time, the book includes a helpful glossary of key terms.

The datasets used in *Quantitative Data Analysis with SPSS 14, 15 & 16* are available online at [www.psypress.com/brymancramer](http://www.psypress.com/brymancramer); in addition a set of multiple-choice questions and a chapter-by-chapter PowerPoint lecture course will be made available here free of charge to lecturers who adopt the book.

### Contents

1. Data Analysis and the Research Process. 2. Analyzing Data with Computers: First Steps with SPSS 14, 15 and 16. 3. Analyzing Data with Computers: Further Steps with SPSS 14, 15 and 16. 4. Concepts and Their Measurement. 5. Summarizing Data. 6. Sampling and Statistical Significance. 7. Bivariate Analysis: Exploring Differences between Scores on Two Variables. 8. Bivariate Analysis: Exploring Relationships. 9. Multivariate Analysis: Exploring Differences Among Three or More Variables. 10. Multivariate Analysis: Exploring Relationships among Three or More Variables. 11. Aggregating Variables: Exploratory Factor Analysis. Answers to Exercises. Glossary. Bibliography.

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## SPSS for Introductory Statistics

### Use and Interpretation

3rd Edition

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



*"A wonderful guide for anyone wanting to learn how to use SPSS for statistical analyses. ... The examples and extra problems ... encourage readers to explore on their own."* - **Amy Herrin**, Medical University of South Carolina, in *The American Statistician*

This book distinguishes itself from other SPSS resources through its unique integration of the research process (including design) and the use and interpretation of the statistics. The authors demonstrate how to choose the appropriate statistic based on the research design, interpret

SPSS output, and write about the output. Written in a user-friendly, non-technical style, the book prepares students for all of the steps in the research process, from design and data collection to writing about the results.

*SPSS for Introductory Statistics, 3rd Edition* provides helpful teaching tools:

- All of the key SPSS windows needed to perform the analyses
- Complete outputs with call-out boxes to highlight key points
- Interpretation sections and questions to help students better understand the output
- Lab assignments organized the way students proceed when they conduct a project
- Extra SPSS problems for practice in running and interpreting SPSS
- Helpful appendices on how to get started with SPSS, write research questions, and create tables and figures.

This book is an ideal supplement for courses in either statistics or research methods taught in departments of psychology, education, and other social and health sciences. The Instructor's Resources (available to adopters upon request) feature PowerPoint slides and answers to and additional information on the questions and problems.

#### Contents

1. Variables, Research Problems, and Questions. 2. Data Coding, Entry, and Checking. 3. Measurement and Descriptive Statistics. 4. Understanding Your Data and Checking Assumptions. 5. Data File Management. 6. Selecting and Interpreting Inferential Statistics. 7. Cross Tabulation, Chi-Square, and Nonparametric Measures of Association. 8. Correlation and Regression. 9. Comparing Two Groups with t Tests and Similar Nonparametric Tests. 10. Analysis of Variance (ANOVA). Appendix A: *P.G. Cress*, Getting Started and Other Useful SPSS Procedures. Appendix B: Writing Research Problems and Questions. Appendix C: *D. Quick*, Making Tables and Figures. Appendix D: Answers to Odd-Numbered Interpretation Questions.

2006: 8½x11: 232pp

Pb with CD: 978-0-8058-6027-6: \$34.95

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## SPSS for Intermediate Statistics

### Use and Interpretation

3rd Edition

**Nancy Leech**, University of Colorado at Denver, USA; **Karen Barrett**, **George A. Morgan**, Colorado State University, USA



*"This book is an ideal supplement for advanced courses in intermediate statistics or research methods found in departments of psychology, education, and other social and health sciences."* - **Steven Knotek**, Bucknell University

This book helps students learn to analyze and interpret research data using SPSS by demonstrating how to compute a variety of statistics covered in intermediate statistics courses. This edition features SPSS 15.0, but it can also be used with SPSS 16 & 17 or earlier versions.

Each chapter introduces several related statistics in a user-friendly manner and provides instructions on how to run them and interpret the outputs. The book reviews research designs and how to assess the assumptions, accuracy, and reliability of data. The authors demonstrate how to choose an appropriate statistic based on the research design and level of measurement; use SPSS to help answer research questions; and interpret and write about SPSS outputs. The examples use real data contained on the book's CD.

#### The 3rd edition features:

- Instructor's Resource materials (available on request) with answers to interpretation questions, extra SPSS problems and course support
- Four extra SPSS problems in each chapter for additional practice
- A new chapter on multilevel linear modeling with SPSS
- Coverage of odd ratios and effect sizes for logistic and discriminant analyses
- How to work with the output; import and export files; select cases; and split and merge files.

This inexpensive paperback is intended as a supplemental text for advanced undergraduate or graduate courses on intermediate/advanced statistics and/or research methods taught in departments of psychology, education, human development, and other applied and health sciences.

#### Contents

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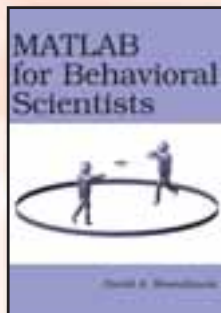
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David A. Rosenbaum  
Penn State University, USA



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University of Staffordshire, UK



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This book guides the reader through all stages involved in undertaking quantitative psychological research, from accessing the relevant literature, through designing and conducting a study, analysing and interpreting data, and finally reporting the research.

It includes two new chapters – on preliminary checking of data and on allowing for additional variables when comparing the means of different conditions – and expands on original topics such as choosing sample sizes and how to test for mediation effects. It contains increased coverage of tests and further detail of techniques and terms which psychologists will meet when working with those in the medical professions. As the chapters focus on choosing appropriate statistical tests and how to interpret and report them (rather than the detailed calculations, which appear in appendices), the reader is able to gain an understanding of a test without being interrupted by the need to understand the complex mathematics behind it. For the first time, the book is accompanied by an online bank of multiple choice questions.

The book helps readers to:

- Locate reports of relevant existing research
- Design research while adhering to ethical principles
- Identify various methods which can be used to ask questions or observe behaviour
- Choose appropriate samples
- Display and analyse findings numerically and graphically to test hypotheses
- Report psychological research in a variety of ways.

As such, the book is suitable for psychology students and professionals at all levels, and is particularly useful to those working in Health and Clinical Psychology.

## Contents

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## Research Design and Statistical Analysis

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**Jerome L. Myers**, Professor Emeritus, University of Massachusetts, Amherst, USA; **Arnold D. Well**, University of Massachusetts, Amherst, USA; **Robert F. Lorch, Jr.**, University of Kentucky, Lexington, USA

*"The Myers & Well book is the best available book for a one-year graduate statistics sequence. ... I currently use the 2nd edition. ... I use it because it provides the best fit for the material I think needs to be covered ... and it is an outstanding reference that students should have."* - **William Levine**, University of Arkansas

*"The authors pay proper attention to effect size, power analysis, and confidence intervals. All of these features are improvements over other ... stat texts. ... The authors write very clearly. ... I chose the Myers & Well text because of its heavy coverage of ANOVA, contrast analysis, trend analysis, effect size estimation, confidence intervals, and repeated measures."* - **Nicolas Di Fonzo**, Rochester Institute of Technology

*Research Design and Statistical Analysis, 3rd Edition* provides comprehensive coverage of the design principles and statistical concepts necessary to make sense of real data. The book's goal is to provide a strong conceptual foundation to enable readers to generalize concepts to new research situations. Emphasis is placed on the underlying logic and assumptions of the analysis and what it tells the researcher, the limitations of the analysis, and the consequences of violating assumptions. Sampling, design efficiency, and statistical models are emphasized throughout. As per APA recommendations, emphasis is also placed on data exploration, effect size measures, confidence intervals, and using power analyses to determine sample size. 'Real-world' data sets are used to illustrate data exploration, analysis, and interpretation. The book offers a rare blend of the underlying statistical assumptions, the consequences of their violations, and practical advice on dealing with them.

### Changes in the 3rd edition:

- Each section of the book concludes with a chapter that provides an integrated example of how to apply the concepts and procedures covered in that section. In addition, the advantages and disadvantages of alternative designs are discussed.
- A new chapter (Ch. 1) reviews the major steps in planning and executing a study, and the implications of those decisions for subsequent analyses and interpretations
- A new chapter (Ch. 13) compares experimental designs to reinforce the connection between design and analysis and to help readers achieve the most efficient research study
- A new chapter (Ch. 27) on common errors in data analysis and interpretation
- Increased emphasis on power analyses to determine sample size using the G\*Power 3 program
- Many new data sets and problems
- More examples that use SPSS (PASW) Version 17, although the analyses exemplified are readily carried out by any of the major statistical software packages
- A dedicated website with: (1) SPSS syntax files with README files to clarify their use; (2) all of the text data files in SPSS and Excel format; (3) derivations of some of the book's formulas; and (4) supplementary material on matrix algebra and logistic regression.

Part 1 reviews research planning, data exploration, and basic concepts in statistics including sampling, hypothesis testing, measures of effect size, estimators, and confidence intervals. Part 2 presents between-subject designs. The statistical models underlying the analysis of variance for these designs are emphasized, along with the role of expected mean squares in estimating effects of variables, the interpretation of interactions, and procedures for testing contrasts and controlling error rates. Part 3 focuses on repeated-measures designs and considers the advantages and disadvantages of different mixed designs. Part 4 presents detailed coverage of correlation and bivariate and multiple regression with emphasis on interpretation and common errors, and discusses the usefulness and limitations of these procedures as tools for prediction and for developing theory.

This is one of the few books with coverage sufficient for a two-semester course sequence in experimental design and statistics as taught in psychology, education, and other behavioral, social, and health sciences. Incorporating the analyses of both experimental and observational data provides continuity of concepts and notation. Prerequisites include courses on basic research methods and statistics. The book is also an excellent resource for practicing researchers.

### Contents

**Part 1. Foundations of Research Design and Data Analysis.** 1. Planning the Research. 2. Exploring the Data. 3. Basic Concepts in Probability. 4. Developing the Fundamentals of Hypothesis Testing Using the Binomial Distribution. 5. Further Development of the Foundations of Statistical Inference. 6. The *t* Distribution and its Applications. 7. Integrated Analysis I. **Part 2. Between-Subjects Designs.** 8. Between-Subjects Designs: One-Factor. 9. Multi-Factor Between-Subjects Designs. 10. Contrasting Means in Between-Subjects Designs. 11. Trend Analysis in Between-Subjects Designs. 12. Integrated Analysis II. **Part 3. Repeated-Measures Designs.** 13. Comparing Experimental Designs and Analyses. 14. One-Factor Repeated-Measures Designs. 15. Multi-Factor Repeated-Measures and Mixed Designs. 16. Nested and Counterbalanced Variables in Repeated-Measures Designs. 17. Integrated Analysis III. **Part 4. Correlation and Regression.** 18. An Introduction to Correlation and Regression. 19. More about Correlation. 20. More about Bivariate Regression. 21. Introduction to Multiple Regression. 22. Inference, Assumptions, and Power in Multiple Regression. 23. Additional Topics in Multiple Regression. 24. Regression with Categorical and Quantitative Variables. 25. ANCOVA as a Special Case of Multiple Regression. 26. Integrated Analysis IV: Multiple Regression. **Part 5. Epilogue.** 27. Some Final Thoughts: Twenty Suggestions and Cautions. Appendix A: Notation and Summation Operations. Appendix B: Expected Values and Their Applications. Appendix C: Statistical Tables. Answers to Selected Exercises. References.

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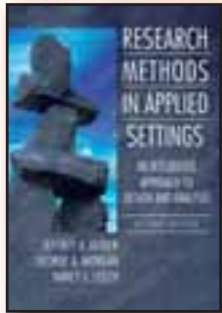
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# Research Methods in Applied Settings

## An Integrated Approach to Design and Analysis

2nd Edition

Jeffrey A. Gliner, George A. Morgan, Colorado State University, Fort Collins, USA; Nancy L. Leech, University of Colorado, Denver



*"This is a unique textbook that provides an integrated, step-by-step approach to designing quantitative studies, in which methods are linked explicitly to research questions. The numerous figures, tables, and diverse examples make the book both reader-friendly and far-reaching."* -

**Anthony J. Onwuegbuzie, Sam Houston State University**

Through its integrated approach to quantitative research methods, this text teaches readers how to plan, conduct, and write a research project and select and interpret data so they can become better consumers of research. This is not a

statistics book – there are very few formulas. Rather, it helps students master which statistic to use when and how to interpret the results. Organized around the steps one takes in conducting a research project, this book is ideal for applied programs and for those who want to analyze and evaluate research articles. Having taught in a variety of departments, the authors have a good grasp of the research problems faced by master's and doctoral students in diverse areas of the behavioral and social sciences.

Text adopters applaud the book's clarity. Students are often confused by other texts' use of inconsistent terminology. To avoid this confusion, the authors present a semantically consistent picture that emphasizes five research approaches – randomized experimental, quasi-experimental, comparative, associational, and descriptive. The authors then show how these approaches lead to three kinds of research designs which, in turn, lead to three groups of statistics with the same names. This consistent framework increases comprehension and the ability to apply the material. Numerous applied problems, annotated examples, and diagrams and tables further promote comprehension. Although the book emphasizes quantitative research, the value of qualitative research is introduced.

**This extensively revised edition features more than 50% new material including:**

- A new chapter on the evidence-based approach that emphasizes the importance of reporting confidence intervals and effect sizes and the increased use of meta-analysis
- An increased emphasis on evaluating research including an 8-step plan for evaluating research validity (Chs. 23 & 24) and its application to the 5 sample studies used throughout the book (Ch. 25)
- Lots of practical advice on planning a research project (Ch. 2), data collection and coding (Ch. 15), writing the research report (Ch. 27), questions to use in evaluating a research article (Appendix E) and creating APA tables and figures (Appendix F)
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- An earlier and expanded introduction to measurement reliability and validity to further emphasize their differences and importance
- An extensively revised chapter on measurement validity consistent with the latest APA/AERA/NCME standards
- Fewer chapters on inferential statistics with an increased focus on how their selection is related to the design of the study and how to interpret the results using significance testing and effect sizes and confidence intervals
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Power Points, test questions, answers to the application questions, and more.

Intended for graduate research or quantitative/experimental methods/design courses in psychology, education, human development and family studies, and other behavioral, social, business, and health sciences, sections and chapters can be read in many orders allowing for flexibility in assigning topics. Its practical approach also appeals to researchers and clinicians. Prior exposure to statistics and research methods is recommended.

### Contents

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# Strategies and Tactics of Behavioral Research

3rd Edition

James M. Johnston, Auburn University, USA

Henry S. Pennypacker, University of Florida, USA



*"A top choice for methodology courses. ... I would adopt this text ... [and] enthusiastically recommend it to others teaching advanced undergraduates and beginning graduate students. Highly recommended for aspiring and experienced researchers who wish to understand and apply the conceptual underpinnings ... to the design and analysis of research projects. It is the standard by which all other behavioral research methodology texts must be judged."* - **R. Wayne Fuqua, Western Michigan University**

Almost entirely rewritten and reformatted with many more learning tools, this classic text now has even greater appeal to today's students.

This comprehensive treatment of single-subject or within-subject design focuses on the strategic (the overall goal) and tactical (the methods and procedures) options available to investigators as they try to determine the most effective way of addressing research questions. The authors guide readers to consider the rationale for different ways of measuring behavior and designing experimental comparisons. At every point, the text explains the strengths and weaknesses of alternative choices so that readers can make the best decision in each situation.

**Highlights of the 3rd edition include:**

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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 author has a real talent for presenting complex topics in a manner that is accessible and easy to follow. ... The step-by-step explanations should make it accessible to a wide range of readers, even advanced undergraduates. ... I would consider using this book for a third course in statistics."* - **Allen I. Huffcutt, Bradley University**

*"The book provides users with the means to compute power accurately for many situations where no other methods are readily available. ... The SPSS syntax provides a framework that allows the user to see a range of possible outcomes – information that can help the user gain a better feel for the costs and benefits of various sample sizes. ... [It] provides methods for dealing with complex data with greater accuracy. ... Appropriate for a short course called statistical power... [or] as a supplement to any multivariate course."* - **Dale Berger, Claremont Graduate University**

This practical guide to conducting statistical power analyses using SPSS is written for students with limited quantitative backgrounds. The author provides detailed calculations and comments on what goes where and how it got there. Readers will appreciate the detailed coverage of topics that are not well described in competing books, such as estimating effect sizes, power for complex designs, as well as common research designs such as multifactor ANOVA and multiple regression. Practical issues such as how to increase power without increasing sample size, how to report findings and run a sample analyses, how to derive effect size expectations and other statistical values, and how to support null hypotheses, are addressed throughout. Unlike competing texts, this book focuses on the statistical and methodological aspects of the analyses.

The book shows how to perform analyses using software applications rather than complex hand calculations. To facilitate application and usability, ready-to-use SPSS tools for conducting analyses are included. SPSS syntax to perform most calculations are available on the book's website. Each SPSS syntax protocol included requires only minor modification to complete the analyses. The syntax is accompanied by detailed annotations that spell out what readers need to change to conduct analyses. As such, the text reviews both power analysis techniques *and* tools for conducting analyzes. Numerous examples enhance accessibility by demonstrating specific issues that must be addressed at all stages of the power analysis. Chapter summaries and key statistics sections also aid in understanding the material.

The book provides three approaches to calculating power – estimation of power, hand calculations with SPSS to calculate power, and the use of SPSS syntax to calculate power. All of the SPSS 17.0 (PASW 17.0) syntax files presented in the book were tested against results produced by several other commercial and freeware programs. Chapters focusing on simpler analyses such as *t*-tests present detailed formulae and calculation examples. Chapters focusing on more complex topics present only computer-based analyses. The book concludes with a review of how to report power analyses, freeware and commercial software for power analyses, and how to increase power without increasing sample size.

Intended as a supplementary text for graduate-level research methods, experimental design, quasi-experimental methods, psychometrics, statistics, advanced statistics, and/or multivariate statistics taught in the behavioral, social, biological, and medical sciences, 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

- Many more field-based examples and applications
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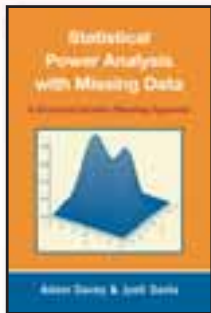
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## Statistical Power Analysis with Missing Data

### A Structural Equation Modeling Approach

Adam Davey, Temple University, USA

Jyoti "Tina" Savla, Virginia Polytechnic Institute and State University, USA



*"The writing style is ... easy to read and engaging. ... This book will ... be used as a supplement in power analysis and SEM classes ... and by ... individuals who are currently calculating power for research studies ... This book fills an important gap in the published literature."* - Jay Maddock, University of Hawaii at Manoa

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
- 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.psyppress.com/davey](http://www.psyppress.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.

#### Contents

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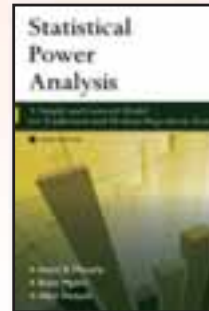
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## Statistical Power Analysis

### A Simple and General Model for Traditional and Modern Hypothesis Tests

3rd Edition

Kevin Murphy, Pennsylvania State University, USA; Brett Myers, Griffith University, Nathan, Australia; Allen Wolach, Illinois Institute of Technology, USA



*"The change to the software is a substantial improvement and could go a long way to making power analysis more accessible. ... I often field ... questions along the lines of, 'I have ten subjects per variable in my study – is that enough?' It would be refreshing to direct the questioner to a text that is as clear and usable as this one."* - Stephen Brand, University of Rhode Island

Noted for its accessible approach, this bestseller applies power analysis to both null hypothesis and minimum-effect testing using the same basic model. Through the use of a few relatively simple procedures and examples from the behavioral and

social sciences, the authors show readers with little expertise in statistical analysis how to quickly obtain the values needed to carry out the power analysis for their research. The book presents a simple and general model for statistical power analysis that is based on the F statistic.

#### Statistical Power Analysis, 3rd edition reviews how to determine:

- The sample size needed to achieve desired levels of power
- The level of power needed in a study
- The size of effect that can be reliably detected by a study
- Sensible criteria for statistical significance.

#### The 3rd edition features:

- Re-designed, user-friendly software at [www.psyppress.com/statistical-power-analysis](http://www.psyppress.com/statistical-power-analysis) that allows users to perform all of the book's analyses on a wider range of tests and conduct significance tests, power analyses, and assessments of N and alpha
- A new chapter on Complex ANOVA Designs
- New boxed sections that provide examples of power analysis in action and unique issues that arise when applying power analyses
- Expanded coverage of minimum-effect tests, the fundamentals of power analysis and the application of these concepts to correlational studies.

Ideal for students in the social, behavioral, and health sciences, business, and education, this valuable resource helps readers apply methods of power analysis to their research.

#### Contents

1. The Power of Statistical Tests. 2. A Simple and General Model for Power Analysis. 3. Power Analyses for Minimum-Effect Tests. 4. Using Power Analyses. 5. Correlation and Regression. 6. *t*-Tests and the Analysis of Variance. 7. Multi-Factor ANOVA Designs. 8. Split-Plot Factorial and Multivariate Analyses. 9. The Implications of Power Analyses.

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This fully updated new edition not only provides an introduction to a range of advanced statistical techniques that are used in psychology, but has been expanded to include new chapters describing methods and examples of particular interest to medical researchers. It takes a very practical approach, aimed at enabling readers to begin using the methods to tackle their own problems.

This book provides a non-mathematical introduction to multivariate methods, with an emphasis on helping the reader gain an intuitive understanding of what each method is for, what it does and how it does it. The first chapter briefly reviews the main concepts of univariate and bivariate methods and provides an overview of the multivariate methods that will be discussed, bringing out the relationships among them, and summarising how to recognise what types of problem each of them may

be appropriate for tackling. In the remaining chapters, introductions to the methods and important conceptual points are followed by the presentation of typical applications from psychology and medicine, using examples with fabricated data.

Instructions on how to do the analyses and how to make sense of the results are fully illustrated with dialogue boxes and output tables from SPSS, as well as details of how to interpret and report the output, and extracts of SPSS syntax and code from relevant SAS procedures. A list of further reading shows where more information can be obtained on each of the methods, and all data will be provided online.

This book gets students started, and prepares them to approach more comprehensive treatments with confidence. This makes it an ideal text for psychology students, medical students and students or academics in any discipline that uses multivariate methods.

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This bestselling text is written for those who use, rather than develop statistical methods. Dr. Stevens focuses on a conceptual understanding of the

material rather than on proving results. Helpful narrative and numerous examples enhance understanding and a chapter on matrix algebra serves as a review. Annotated printouts from SPSS and SAS indicate what the numbers mean and encourage interpretation of the results. In addition to demonstrating how to use these packages, the author stresses the importance of checking the data, assessing the assumptions, and ensuring adequate sample size by providing guidelines so that the results can be generalized. The book is noted for its extensive applied coverage of MANOVA, its emphasis on statistical power, and numerous exercises including answers to half.

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- Updated versions of SPSS (15.0) and SAS (8.0) are used throughout the text and introduced in Chapter 1

- [www.psypress.com/applied-multivariate-statistics-for-the-social-sciences](http://www.psypress.com/applied-multivariate-statistics-for-the-social-sciences) has data sets and more.

Ideal for courses on multivariate statistics found in psychology, education, sociology, and business departments, for students with little or no training in multivariate methods. Prerequisites include a course on factorial ANOVA and covariance. Working knowledge of matrix algebra is not assumed.

#### Contents

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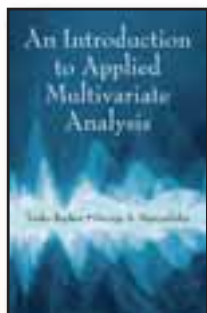
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## An Introduction to Applied Multivariate Analysis

Tenko Raykov, Michigan State University, USA

George A. Marcoulides, University of California, Riverside, USA



*"This text is very well-written and makes important connections between univariate and multivariate procedures. ... [It] allows readers to understand progressive developments that build on previously established foundations ... [and] provides a good conceptual understanding of multivariate procedures."*

- Tim Konold, University of Virginia

This comprehensive text introduces readers to the most commonly used multivariate techniques at an introductory, non-technical level. By focusing on the fundamentals, readers are better prepared for more advanced applied pursuits. Analogies between the already familiar univariate statistics and multivariate

statistics are emphasized throughout. The authors examine how each multivariate technique can be implemented using SPSS and SAS and Mplus in the book's later chapters. Important assumptions are discussed along the way along with tips for how to deal with pitfalls the reader may encounter. Mathematical formulas are used only in their definitional meaning rather than as elements of formal proofs.

A book-specific website provides files with all of the data used in the text so readers can replicate the results. The software code (for SAS and Mplus) and the menu options for SPSS are also discussed in the book. The book is distinguished by its use of latent variable modeling to address multivariate questions specific to behavioral and social scientists including missing data analysis and longitudinal data modeling.

Ideal for graduate and advanced undergraduate students in the behavioral, social, and educational sciences, recommended prerequisites include introductory statistics with exposure to regression analysis and SPSS or SAS.

#### Contents

1. Introduction to Multivariate Statistics. 2. Elements of Matrix Theory. 3. Data Screening and Preliminary Analyses. 4. Multivariate Analysis of Group Differences. 5. Repeated Measure Analysis of Variance. 6. Analysis of Covariance. 7. Principal Component Analysis. 8. Exploratory Factor Analysis. 9. Confirmatory Factor Analysis. 10. Discriminant Function Analysis. 11. Canonical Correlation Analysis. 12. An Introduction to the Analysis of Missing Data. 13. Multivariate Analyses of Change Processes.

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## See Also

**Applied Power Analysis for the Behavioral Sciences** by Aberson (p.10)

**Statistical Power Analysis for the Behavioral Sciences, 2nd Edition** by Cohen (p.12)

**Statistical Power Analysis with Missing Data: A Structural Equation Modeling Approach** by Davey & Savla (p.11)

**Effect Sizes for Research: A Broad Practical Approach** by Grissom & Kim (p.12)

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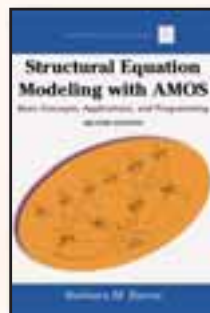
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*"This 2nd edition [is] a must have for clearly understandable input and examples on applying structural equation modeling with AMOS."* - Lisa Harlow, University of Rhode Island

This bestselling text provides a practical guide to the basic concepts of structural equation modeling (SEM) and the AMOS program (Versions 17 & 18). The author reviews SEM applications based on actual data taken from her own research. Noted for its non-mathematical language, this book is written for the novice SEM user. In each chapter, the author walks the reader through all steps involved in testing the SEM model, including:

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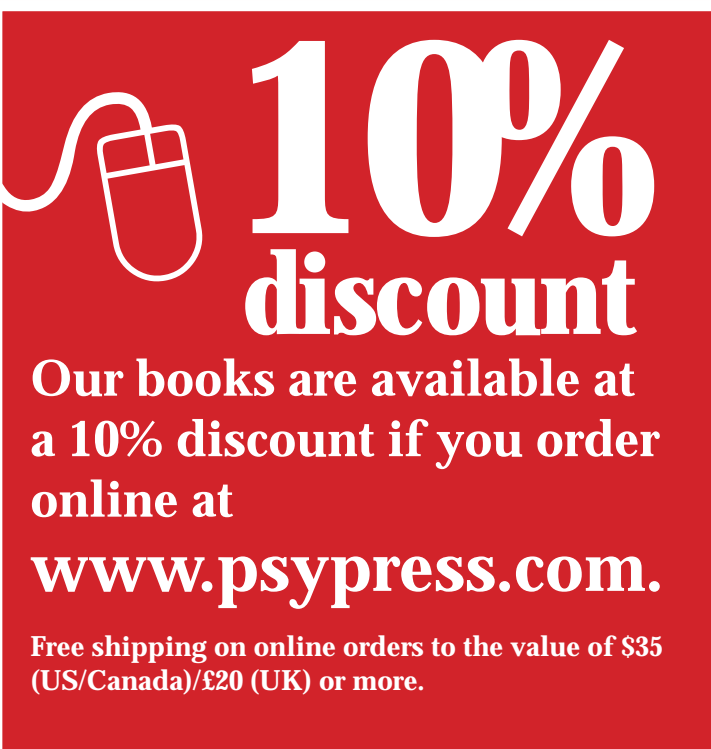
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- Application of a multitrait-multimethod model, latent growth curve model, and second-order model based on categorical data
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This book is an ideal resource for graduate-level courses on SEM taught in departments of psychology, education, business, and other social and health sciences and/or as a supplement in courses on applied statistics, multivariate statistics, statistics II, intermediate or advanced statistics, and/or research design. Appropriate for those with limited or no previous exposure to SEM, a prerequisite of basic statistics through regression analysis is recommended.

#### Contents

**Part 1. Introduction.** 1. Structural Equation Models: The Basics. 2. Using the AMOS Program. **Part 2. Applications in Single-Group Analyses.** 3. Testing for the Factorial Validity of a Theoretical Construct (First-Order CFA Model). 4. Testing for the Factorial Validity of Scores from a Measuring Instrument (First-Order CFA Model). 5. Testing for the Factorial Validity of Scores from a Measuring Instrument (Second-Order CFA Model). 6. Testing the Validity of a Causal Structure. **Part 3. Applications in Multiple-Group Analyses.** 7. Testing for the Factorial Equivalence of Scores from a Measuring Instrument (First-Order CFA Model). 8. Testing for the Equivalence of Latent Mean Structures (First-Order CFA Model). 9. Testing for the Equivalence of a Causal Structure. **Part 4. Other Important Applications.** 10. Testing for Construct Validity: The Multitrait-Multimethod Model. 11. Testing for Change Over Time: The Latent Growth Curve Model. **Part 5. Other Important Topics.** 12. Bootstrapping as an Aid to Nonnormal Data. 13. Addressing the Issue of Missing Data.

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**Ronald Heck**, University of Hawaii, Manoa, USA; **Scott L. Thomas**, Claremont Graduate University, California, USA; **Lynn Tabata**, University of Hawaii, Manoa, USA

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*"There are quite a few great multilevel texts, however few that go into the detail of how to actually conduct and interpret the output. This text is so needed in our field. ... The writing is very clear and easy to read. ... I will definitely use it when teaching multivariate [statistics]."* - **Debbie Hahs-Vaughn, University of Central Florida**

*"I would ... 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**

This is the first book to demonstrate how to use the multilevel and longitudinal modeling techniques available in the PASW (SPSS) Version 18 software. The authors tap the power of PASW's Mixed Models routine to provide an accessible approach to these models.

Annotated screen shots with all of the key output provide readers with a step-by-step understanding of each technique as they are shown how to navigate through the program. Diagnostic tools, data management issues, and related graphics are introduced throughout. PASW 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 illustrating the logic of model development. These examples show readers the context and rationale of the research questions and the steps around which the analyses are structured. A book-specific website will provide the data used in the text and syntax examples.

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 provides an excellent supplement to Heck & Thomas's *An Introduction to Multilevel Modeling Techniques, 2nd Edition*; however, it can also be used with any multilevel and/or longitudinal modeling book or as a stand-alone text.

#### Contents

1. Introduction to Multilevel Modeling with PASW. 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.

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*Quantitative Methodology Series*



*"An insightful and authoritative textbook. Whether you are a newcomer to statistics or a long-time practitioner, this work is valuable both as a textbook and as a reference manual."* - **Terry E. Duncan**, Oregon State University

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the strengths and limitations of each technique before selecting their approach. Numerous examples and exercises allow readers to test their understanding of the techniques. Input programs from HLM and Mplus demonstrate how to set up and run the models.

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- Increased emphasis on how multilevel techniques are used to examine changes in individuals and organizations over time.

Ideal for introductory graduate level courses on multilevel and/or latent variable modeling, this book is intended for students in psychology, business, education, health, and sociology interested in understanding multilevel modeling. Prerequisites include an introduction to data analysis and univariate statistics.

## Contents

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