

Research Methods & Statistics 2010–2011

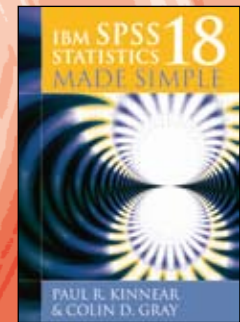
Introductory & Intermediate Statistics	6
IBM SPSS & Other Computer Applications	9
Research Methods & Experimental Design	13
Regression Analysis & Multivariate Statistics	19
Factor Analysis, Structural Equation & Longitudinal Modeling	22
Power Analysis & Effect Sizes	29
Testing, Measurement & Assessment	31
Evaluation	35
Teaching Resources	35
Journals	36



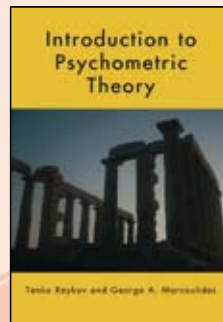
p.6



p.9



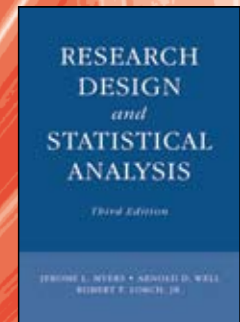
p.11



p.31



p.19



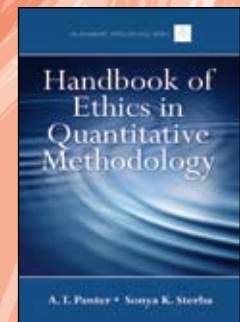
p.14



p.22



p.23



p.13

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Contents

INTRODUCTORY & INTERMEDIATE STATISTICS

Urduan, Statistics in Plain English, 3rd Ed.	6
Huck, Statistical Misconceptions	6
Lance & Vandenberg, Statistical and Methodological Myths and Urban Legends	7
Judd et al., Data Analysis, 2nd Ed.	7
Lomax, An Introduction to Statistical Concepts, 2nd Ed.	8
Lomax, Statistical Concepts, 3rd Ed.	8

IBM SPSS & OTHER COMPUTER APPLICATIONS

Morgan et al., IBM SPSS for Introductory Statistics, 4th Ed.	9
Leech et al., IBM SPSS for Intermediate Statistics, 4th Ed.	10
Kinnear & Gray, IBM SPSS Statistics 18 Made Simple	11
Bryman & Cramer, Quantitative Data Analysis with SPSS 14, 15 & 16	12

RESEARCH METHODS & EXPERIMENTAL DESIGN

Panter & Sterba, Handbook of Ethics in Quantitative Methodology	13
Myers et al., Research Design and Statistical Analysis, 3rd Ed.	14
Valsiner & Rudolph, Mathematical Models for Research on Cultural Dynamics	14
Davidov et al., Cross-Cultural Analysis	14
Das et al., Social and Behavioral Research and the Internet	15
Gliner et al., Research Methods in Applied Settings, 2nd Ed.	16
Clark-Carter, Quantitative Psychological Research, 3rd Ed.	16
Chow et al., Statistical Methods for Modeling Human Dynamics	17
Johnston & Pennypacker, Strategies and Tactics of Behavioral Research, 3rd Ed.	18
de Leeuw et al., International Handbook of Survey Methodology	18

REGRESSION ANALYSIS & MULTIVARIATE STATISTICS

Azen & Walker, Categorical Data Analysis for the Behavioral and Social Sciences	19
Dugard et al., Approaching Multivariate Analysis, 2nd Ed.	20
Stevens, Applied Multivariate Statistics for the Social Sciences, 5th Ed.	20
Raykov & Marcoulides, An Introduction to Applied Multivariate Analysis	21
Cohen et al., Applied Multiple Regression/Correlation Analysis for the Behavioral Sciences, 3rd Ed.	21

FACTOR ANALYSIS, STRUCTURAL EQUATION & LONGITUDINAL MODELING

Hox, Multilevel Analysis, 2nd Ed.	22
Hox & Roberts, Handbook of Advanced Multilevel Analysis	23
Heck et al., Multilevel and Longitudinal Modeling with IBM SPSS	23
Schumacker & Lomax, A Beginner's Guide to Structural Equation Modeling, 3rd Ed.	24
Byrne, Structural Equation Modeling With AMOS, 2nd Ed.	24
Heck & Thomas, An Introduction to Multilevel Modeling Techniques, 2nd Ed.	25
Card et al., Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences	26
Cohen, Applied Data Analytic Techniques For Turning Points Research	26
MacKinnon, Introduction to Statistical Mediation Analysis	27
van de Vijver et al., Multilevel Analysis of Individuals and Cultures	27

POWER ANALYSIS & EFFECT SIZES

Aberson, Applied Power Analysis for the Behavioral Sciences	29
Davey & Savla, Statistical Power Analysis with Missing Data	29
Murphy et al., Statistical Power Analysis, 3rd Ed.	30
Cohen, Statistical Power Analysis for the Behavioral Sciences, 2nd Ed.	31

TESTING, MEASUREMENT & ASSESSMENT

Raykov & Marcoulides, Introduction to Psychometric Theory	31
Millsap, Statistical Approaches to Measurement Invariance	32
Nering & Ostini, Handbook of Polytomous Item Response Theory Models	32
Cardinet et al., Applying Generalizability Theory Using EduG	33
Tatsuoka, Cognitive Assessment	33
Rust & Golombok, Modern Psychometrics, 3rd Ed.	34
Pedhazur & Pedhazur Schmelkin, Measurement, Design, and Analysis	34

JOURNALS

Measurement	36
Multivariate Behavioral Research	37
Structural Equation Modeling	37
International Journal of Testing	38
Journal of Personality Assessment	38
Applied Measurement in Education	38

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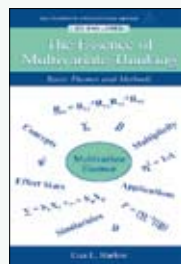
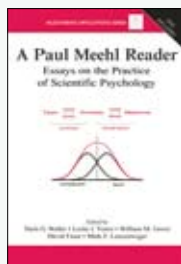
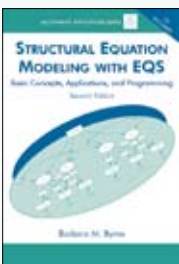
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See p.15.

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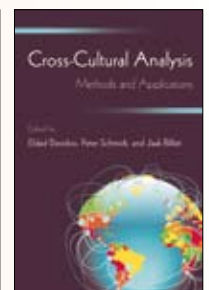
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See p.23.

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See p.23.

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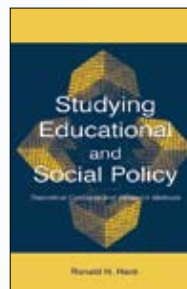
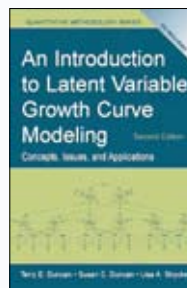
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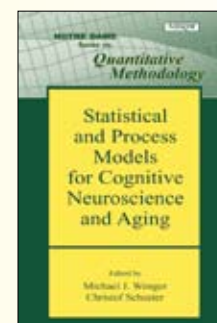
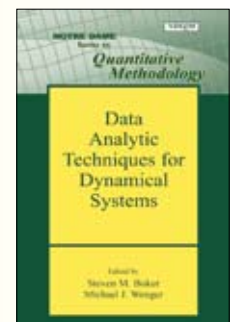
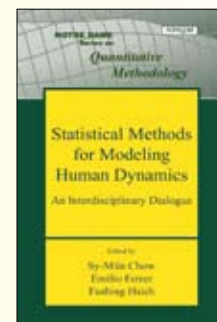
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Timothy C. Urdan
Santa Clara University, USA



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"A gift to students, teachers, and researchers. Urdan clearly explains statistical topics using straightforward, conversational language. The book is particularly unique because it covers

everything from basic statistical principles to complex multivariate techniques, all in an extremely user-friendly manner." - Eric M. Anderman, The Ohio State University, 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 *Writing it Up* sections demonstrate how to write about and interpret statistics seen in books and journals
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- New section on understanding the distribution of data (Ch. 1) 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.

Contents

1. Introduction to Social Science Research Principles and Terminology. 2. Measures of Central Tendency. 3. Measures of Variability. 4. The Normal Distribution. 5. Standardization and *z* Scores. 6. Standard Errors. 7. Statistical Significance, Effect Size, and Confidence Intervals. 8. Correlation. 9. *t* Tests. 10. One-Way Analysis of Variance. 11. Factorial Analysis of Variance. 12. Repeated-Measures Analysis of Variance. 13. Regression. 14. The Chi-square Test of Independence. 15. Factor Analysis and Reliability Analysis: Data Reduction Techniques. Appendixes.

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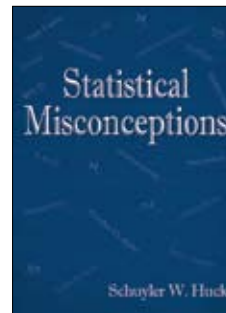
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Statistical Misconceptions

Schuyler W. Huck

University of Tennessee-Knoxville, 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, USA

"I sometimes feel that I spend as much time getting my students to 'unlearn' wrong ideas as I do getting them to learn new material. ... I have always been impressed by the clarity of Dr. Huck's writing. ... I could well imagine adopting the book as a secondary text in the graduate-level

introductory psychology statistics course [and] recommend it to students who come to me for statistical consulting." - Scott Maxwell, University of Notre Dame, USA

"Readable, great examples ... and actually fun. ... The internet exercises will go a long way in terms of illustrating the misconception. ... [Useful] at either the undergraduate or graduate level." - Richard Lomax, The Ohio State University, USA

Brief and inexpensive, this engaging book helps readers identify and then discard fifty-two misconceptions about data and statistical summaries. The focus is on major concepts contained in typical undergraduate and graduate 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 book's statistical 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. The book also will benefit independent researchers interested in undoing their statistical misconceptions.

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

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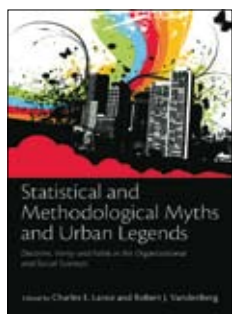
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Statistical and Methodological Myths and Urban Legends

Doctrine, Verity and Fable in Organizational and Social Sciences

Charles E. Lance & Robert J. Vandenberg (Eds.)

University of Georgia, USA



"It is an easy-to-carry size and has clear print and particularly important, clear writing. The text includes many good charts and graphics that could come in handy as examples to be used in classes, especially high-level graduate classes in statistics or research methods. ... Most doctoral students should have a copy of Lance and Vandenberg before they set words to paper in their dissertation proposals. ... The information in the many chapters can be very important in

considering results and especially in considering limitations. It can serve as a rich source of primary articles and coherent discussion of many important topics." - Malcolm James Ree, Professor of Leadership, Our Lady of the Lake University, Texas, in *Personnel Psychology*

"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 in *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.

Contents

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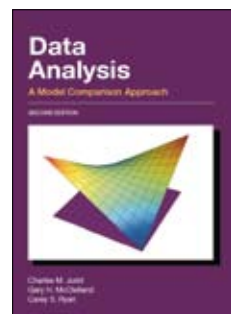
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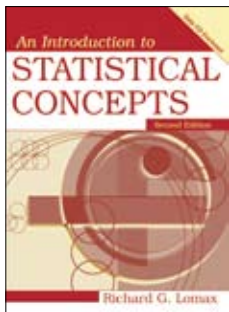
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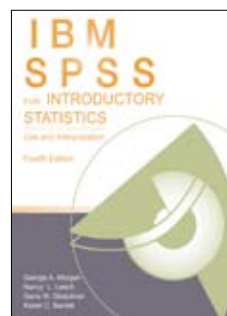
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Designed to help students analyze and interpret research data using IBM SPSS, this user-friendly, non-technical book shows readers how to choose the appropriate statistic based on the design, interpret output, and write about the results. The authors 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.

The 4th edition features:

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- Expanded discussion of assumptions and effect size measures in several chapters
- Expansion of other useful SPSS functions in Appendix A
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- Flowcharts and tables to help select the appropriate statistic and interpret statistical significance and effect sizes
- Two realistic data sets at www.psypress.com/ibm-spss-intro-stats used to solve the chapter problems
- Password-protected Instructor's Resource materials with



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IBM SPSS for Introductory Statistics, 4th Edition provides helpful teaching tools:

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- Lab assignments organized the way students proceed when they conduct a research project
- Extra 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.

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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The new edition features:

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- Expanded discussion of multilevel modeling
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- Examples that meet the new formatting guidelines in the 6th edition of the *APA Publication Manual* (2010)
- Flowcharts and tables to help select the appropriate statistic and interpret statistical significance and effect sizes
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- Helpful appendices on how to get started with SPSS, writing research questions, and review of basic statistics

An ideal supplement for courses in either intermediate/advanced statistics or research methods taught in departments of psychology, education, and other social and health sciences, this book is also appreciated by researchers in these areas looking for a handy reference for SPSS.

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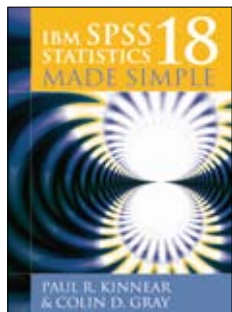


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An ideal supplement for undergraduate and/or graduate courses in statistics, research methods, or any course in which SPSS is used, taught in departments of psychology, education, and other social and health sciences, this book is also appreciated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

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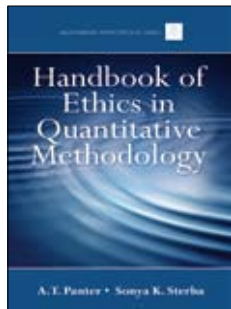
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Abigail T. Panter, University of North Carolina, Chapel Hill, USA

Sonya K. Sterba, Vanderbilt University, USA (Eds.)

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

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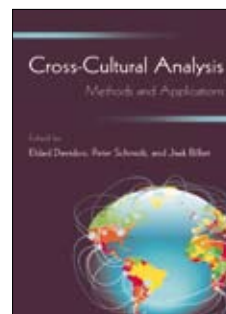
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"This book in the field of cross-national research, compiled by outstanding scientists with high-ranking profiles, contains long awaited overviews of both rigorous methodologies as well as practical applications, very likely to stimulate even more exciting research." - Peer Scheepers, Radboud University Nijmegen, The Netherlands

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techniques are included. The datasets used in the book are online. Real datasets are used to illustrate the following:

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Intended for researchers, practitioners, and advanced students interested in cross-cultural research in a variety of fields including: psychology, political science, sociology, education, marketing, economics, geography, criminal justice, epidemiology, and public health, it is also appropriate for an advanced methods course in cross-cultural analysis.

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Social and Behavioral Research and the Internet

Advances in Applied Methods and Research Strategies

Marcel Das, Tilburg University, The Netherlands; **Peter Ester**, Rotterdam University, The Netherlands; **Lars Kaczmirek**, GESIS – Leibniz Institute for the Social Sciences, Mannheim, Germany (Eds.)

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“This fascinating book explains how probability sampling can be implemented to produce a representative panel of respondents and describes the range of fascinating data that can then be collected from these participants. Eye tracking, biomarkers, visual layout, paradata, and measurement on sensitive topics are just a few of the themes examined by some of the world’s leading survey methodologists. This book is a must-have for anyone interested in one of the most important innovations in the research world.” - **Jon Krosnick**, Stanford University, USA

“This book illustrates and discusses in a very clear way how web surveys can be used in a scientific way. We hope that the described approach will be taken over by many other research institutions. This would definitely considerably improve social and behavioral science research.” - **Willem Saris**, President of the European Survey Research Association

Highlighting the progress made by researchers in using web-based surveys for data collection, this timely volume summarizes the experiences of leading behavioral and social scientists from Europe and the US who collected data using the internet. Some chapters present theory, methodology, design, and implementation, while others focus on best practice examples and/or issues such as data quality and understanding paradata. A number of contributors applied innovative web-based research methods to the LISS panel of CentERdata collected from over 5,000 Dutch households. Their findings are presented in the book. The book addresses practical issues such as data quality, how to reach difficult target groups, how to design a survey to maximize response, and ethical issues that need to be considered. Innovative applications such as the use of biomarkers and eye-tracking techniques are also explored.

This practical book appeals to practitioners from market survey research institutes and researchers in disciplines such as psychology, education, sociology, political science, health studies, marketing, economics, and business who use the internet for data collection, but is also an ideal supplement for graduate and/or upper level undergraduate courses on (internet) research methods and/or data collection taught in these fields.

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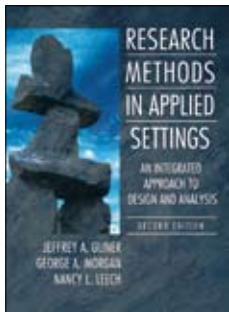
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“The clearly-written content helps readers conceptualize the research process from start to finish, thereby making this an excellent textbook for graduate courses.” -

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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. Although it is not a statistics book, it helps students master which statistic to use when and how to interpret the results. As such, text adopters applaud the book's clarity. Numerous problems, annotated examples, and diagrams and tables further promote comprehension.

This extensively revised 2nd edition features:

- A new evidence-based approach chapter that emphasizes the importance of reporting confidence intervals and effect sizes
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with the latest standards

- More on how the selection of a statistic is related to the design of the study
- Online instructor's resources with PowerPoints, test questions, and more.

Intended for graduate research or quantitative/experimental methods/design courses in the behavioral, social, and health sciences, this book also appeals to researchers and clinicians. Prior exposure to statistics and research methods is recommended.

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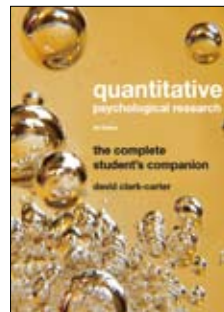
Quantitative Psychological Research

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3rd Edition

David Clark-Carter

University of Staffordshire, UK



“This is a good choice as a text to take a student through the quantitative elements of their undergraduate or conversion degree and perhaps even further as a bookshelf reference book.” - Harriet Nock in *The Psychologist*

“Well-written with clear examples. David Clark-Carter is successful in delivering complex ideas in a way that students will be able to understand and apply to their own research.” - Charlotte Brownlow, Centre for Childhood, Development and Learning, The Open University, UK

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

This 3rd edition 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 also contains increased coverage of tests and further detail of techniques and terms which psychologists will meet when working with those in the medical professions. For the first time, the book is accompanied by an online bank of multiple-choice questions.

This 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.

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

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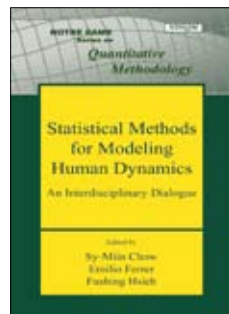
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Statistical Methods for Modeling Human Dynamics

An Interdisciplinary Dialogue

Sy-Miin Chow, University of North Carolina at Chapel Hill, USA; Emilio Ferrer, Fushing Hsieh, University of California, Davis, USA (Eds.)

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In this volume, contributors from psychology, neuroscience, statistics, computer science and physics provide state-of-the-art techniques and applications used to analyze data obtained from studies in cognition, emotion, electrophysiology and more. The syntax for running the analyses presented in the book is available online. Most of the programs are written in R while others are for Matlab, SAS, Win-BUGS, and DyFA.

Readers will appreciate coverage of the latest methodological techniques, including:

- Statistical and mathematical modeling techniques for the analysis of brain imaging such as EEGs, fMRIs, and more
- Dynamic modeling techniques for intensive repeated measurement data
- Panel modeling techniques for fewer time points data
- State-space modeling techniques for psychological data
- Techniques used to analyze reaction time data.

Each chapter features an overview of the techniques, a summary, and numerous examples. Each self-contained chapter can be read on its own and in any order. Intended for advanced students and researchers, this book appeals to those interested in applying dynamic modeling techniques.

Contents

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Rewritten with many more learning tools, the 3rd edition of this classic text now has even greater appeal to today's students. This edition features more discussion of how research methods are relevant for practitioners, and many examples are based on field research.

This comprehensive treatment focuses on the strategic and tactical options available to investigators as they try to determine the most effective way of addressing research questions. The rationale for different ways of measuring behavior and designing experimental comparisons are explained. 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:

- Rewritten in a straightforward and accessible style for students without a background in this area, this edition features many more field-based examples and applications
- Increased focus on the application of research methods to the needs of practitioners in measuring behavior change and evaluating interventions under field conditions
- Increased use of learning aids, including a 'built-in study guide', summary tables, figures, boxed discussions of special topics, key terms with definitions, chapter summaries, suggested readings, discussion questions and exercises, and a glossary
- Online instructor's resource materials including figures, tables, definition of new terms by chapters, multiple-choice test questions, and content from the book's learning aids, including study guide questions and suggested topics for class discussion and exercises.

With a focus on direct behavioral measurement and within-subject design, this book is intended for advanced undergraduate or graduate courses in behavioral research methods, behavior analysis, or single-/within-subject design taught in psychology, social work, education, developmental disabilities, and other social and health science programs. Its comprehensive approach also make it a valuable resource for professionals.

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International Handbook of Survey Methodology

Edith D. de Leeuw, Joop J. Hox, Utrecht University, The Netherlands; Don A. Dillman, Washington State University, USA (Eds.)

European Association for Methodology Series



Taking into account both traditional and emerging modes, this comprehensive handbook covers all major methodological and statistical issues in designing and analyzing surveys. With contributions from the world's leading survey methodologists and statisticians, this invaluable resource provides guidance on collecting survey data and creating meaningful results. Featuring examples from a variety of countries, the book reviews such things as how to deal with sample designs, write survey questions, and collect data on the internet. A thorough review of the procedures associated with multiple modes of collecting sample survey information and applying that combination of methods that fit the situation best is included.

Intended for advanced students and researchers in the behavioral, social, and health sciences, this 'must have' resource will appeal to those interested in conducting or using survey data from anywhere in the world, especially those interested in comparing results across countries. The book also serves as a state-of-the-art text for graduate-level courses and seminars on survey methodology. A companion website at www.xs4all.nl/~edithl/surveyhandbook contains additional readings and examples.

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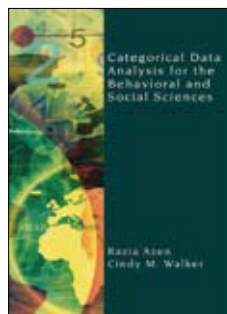
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book promises to be quite attractive for classroom use." - Scott L. Thomas, Claremont Graduate University, USA

Using a practical approach, this book helps readers develop a conceptual understanding of categorical methods, making it very accessible for today's student. Specific research questions that can be addressed by each analytic procedure are emphasized throughout by:

- Reviewing the theoretical implications and assumptions underlying each procedure
- Presenting concepts in general terms and illustrating each with a practical example
- Demonstrating the analyses using SPSS and SAS and showing the interpretation of the results.

A 'Look Ahead' section in each chapter provides an overview of the material followed by research questions that can be addressed using the procedure(s) covered in the chapter. A theoretical presentation of the material is then provided and illustrated using realistic examples. To further enhance accessibility, the procedures introduced in the book are related to analytic procedures covered



in earlier statistics courses. Practical examples demonstrate how to obtain and interpret statistical output in both SPSS and SAS. The authors' emphasis on the relationship between the research question, the use of the software, and the interpretation of the output, allows readers to easily apply the material to their own research. The data sets for executing chapter examples using SAS Version 9.1.3 and/or IBM SPSS Version 18 are available on the website. These data sets and syntax allow readers to run the programs and obtain the appropriate output. Conceptual and analytic exercises assist in evaluating the understanding of the material.

This book covers the most commonly used categorical data analysis procedures. It 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. Researchers in these disciplines will appreciate this book's accessible and practical approach.

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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Approaching Multivariate Analysis

A Practical Introduction

2nd Edition

Pat Dugard, University of Dundee, UK; John Todman, formerly University of Dundee, UK; Harry Staines, Project Statistician, Boehringer-Ingelheim



"I would particularly recommend this text to postgraduate students, but also to anyone who is looking for a way into understanding multivariate statistics." - Alice Jones in *The Psychologist*

"The authors have done an excellent job, adding two new chapters and creating medical examples to supplement this new edition. In common with the earlier chapters, these are very nicely structured and easy to follow. The new material on using SPSS syntax is extremely useful and

is the only source that I know of that provides the reader with this information." - David Giles, University of Winchester, UK

This fully updated 2nd 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.

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.

Contents

Preface. 1. Multivariate Techniques in Context. 2. Analysis of Variance (ANOVA). 3. Multivariate Analysis of Variance (MANOVA). 4. Multiple Regression. 5. Analysis of Covariance (ANCOVA). 6. Partial Correlation, Mediation and Moderation. 7. Path Analysis. 8. Factor Analysis. 9. Discriminant Analysis and Logistic Regression. 10. Cluster Analysis. 11. Multidimensional Scaling. 12. Loglinear Models. 13. Poisson Regression. 14. Survival Analysis. 15. Longitudinal Data. Appendix: SPSS and SAS Syntax.

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Applied Multivariate Statistics for the Social Sciences

5th Edition

James P. Stevens

University of Cincinnati, USA



"Of all the texts I have ever used, this is one of the very best. ... Students find the book to be extremely understandable ... [and] nearly all keep [it] for reference purposes. ... It really is a great applied treatment of the topics. ... The examples are general enough to appeal to students across disciplines.... The ... computer examples are very helpful. ... An extraordinarily balanced text by a highly respected author." - Dale R. Fuqua, Oklahoma State University, USA

"It is the best text I have found on multivariate stats. ... Including examples in journals is a great addition. ... The book's ... greatest strengths [include] comprehensive coverage of the analyses, thorough description and discussion of the assumptions for the analyses, and annotated SPSS print-outs." - Philip Schatz, Saint Joseph's University, USA

This best-selling 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. 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, its emphasis on statistical power, and numerous exercises including answers to half.

Highlights of the 5th edition include:

- New chapters on Hierarchical Linear Modeling and Structural Equation Modeling
- New exercises that feature recent journal articles to demonstrate the actual use of techniques
- A new appendix on the analysis of correlated observations
- A book website with datasets and more.

Ideal for courses on multivariate statistics found in psychology, education, sociology, and business departments, the book also appeals to researchers with little training in multivariate methods. Prerequisites include a course on factorial ANOVA and covariance. Working knowledge of matrix algebra is not assumed.

Contents

1. Introduction. 2. Matrix Algebra. 3. Multiple Regression. 4. Two-group Multivariate Analysis of Variance. 5. *K*-Group MANOVA: A Priori and Post Hoc Procedures. 6. Assumptions in MANOVA. 7. Discriminant Analysis. 8. Factorial Analysis of Variance. 9. Analysis of Covariance. 10. Stepdown Analysis. 11. Exploratory and Confirmatory Factor Analysis. 12. Canonical Correlation. 13. Repeated Measures Analysis. 14. Categorical Data Analysis: The Log Linear Model. 15. *N. Beretvas*, Hierarchical Linear Modeling. 16. *L.R. Fabrigar & D.T. Wegener*, Structural Equation Modeling. Appendixes. A. Statistical Tables. B. Obtaining Nonorthogonal Contrasts in Repeated Measures Designs. Answers.

February 2009: 7x10: 664pp

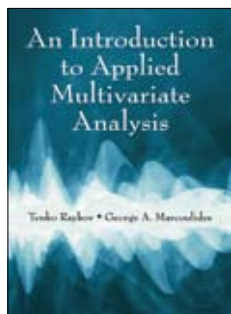
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Complimentary copy available! An Introduction to Applied Multivariate Analysis

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, USA

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, particularly

on topics that are most critical to the behavioral, social, and educational sciences. Analogies between the already familiar univariate statistics and multivariate statistics are emphasized throughout. The authors examine in detail 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 Appendix explains the data files and its variables. The software code (for SAS and Mplus) and the menu option selections 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, this book will also appeal to researchers in these disciplines who have limited familiarity with multivariate statistics. Recommended prerequisites include an introductory statistics course with exposure to regression analysis and some familiarity with SPSS and SAS.

Contents

Preface. 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. References. Appendix.

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Applied Multiple Regression/ Correlation Analysis for the Behavioral Sciences

3rd Edition

Jacob Cohen (deceased), New York University, USA;
Patricia Cohen, New York State Psychiatric Unit and
Columbia University, USA; Stephen G. West, Leona S.
Aiken, Arizona State University, USA



“Anyone with an interest in or need to carry out MR will find it invaluable.” - British Journal of Mathematical and Statistical Psychology

This classic text on multiple regression is noted for its nonmathematical, applied, and data-analytic approach. Readers profit from its verbal-conceptual exposition and frequent use of examples. The applied emphasis provides clear illustrations of the principles and provides worked examples of the types of applications that



are possible. Researchers learn how to specify regression models that directly address their research questions. An overview of the fundamental ideas of multiple regression and a review of bivariate correlation and regression and other elementary statistical concepts provide a strong foundation for understanding the rest of the text.

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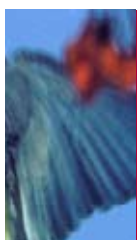
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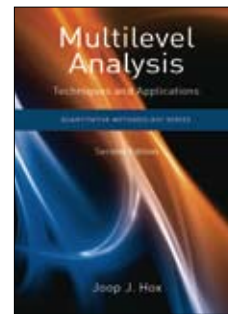
Techniques and Applications

2nd Edition

Joop Hox

Utrecht University, The Netherlands

Quantitative Methodology Series



“Dr. Hox is a master at presenting sophisticated statistical ideas and models in very pragmatic ways.” - Donald Hedeker, University of Illinois at Chicago, USA

“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 data sets on stress in hospitals, GPA scores, survey responses, street safety, epilepsy, divorce, and sociometric scores. The data sets are available on the website 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 – one on multilevel models for ordinal and count data and another on 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 data sets for all the text examples, screen shots, and PowerPoint slides for instructors.

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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New!

Handbook of Advanced Multilevel Analysis

Joop Hox, Utrecht University, The Netherlands
J. Kyle Roberts, Southern Methodist University, USA (Eds.)

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"An outstanding set of authors who should advance the field's understanding about ... multilevel modeling. ... The coverage is excellent. ... I would ... recommend it to students who are doing dissertations on multilevel analysis. ... An excellent resource." - Ron Heck, University of Hawai'i at Manoa, USA

"A 'one-stop' source for cutting-edge ... MLM procedures. I would ... recommend it ... for students with strong quantitative interests using MLM. ... Certainly

psychologists, child developmental, educational, and sociological researchers, to name just a few, would find relevance in this work."
- Noel A. Card, University of Arizona, USA

In this definitive resource on advanced multilevel analysis topics, the top minds in the field address the latest applications of multilevel modeling and the difficulties that are becoming more common as more complicated models are developed. Each chapter features examples that use actual datasets. These datasets, as well as the code to run the models, are available on the book's website: www.hlm-online.com. Each chapter includes an introduction that sets the stage for the material to come and a conclusion.

Intended for researchers in a variety of fields including psychology, education, and the social and health sciences, this handbook also serves as an excellent text for graduate level courses in multilevel modeling. A basic knowledge of multilevel modeling is assumed.

Contents

Part 1. Introduction. J. Hox, J.K. Roberts, Multilevel Analysis: Where We Were and Where We Are. **Part 2. Multilevel Latent Variable Modeling (LVM).** B. Muthén, T. Asparouhov, Beyond Multilevel Regression Modeling: Multilevel Analysis in a General Latent Variable Framework. A. Kamata, B. Vaughn, Multilevel IRT Modeling. J. Vermunt, Mixture Models for Multilevel Data Sets. **Part 3. Multilevel Models for Longitudinal Data.** J. Hox, Panel Modeling: Random Coefficients and Covariance Structures. R.D. Stoel, F.G. Garre, Growth Curve Analysis Using

Multilevel Regression and Structural Equation Modeling. **Part 4. Special Estimation Problems.** D. Hedeker, R.J. Mermelstein, Multilevel Analysis of Ordinal Outcomes Related to Survival Data. E.L. Hamaker, I. Klugkist, Bayesian Estimation of Multilevel Models. H. Goldstein, Bootstrapping in Multilevel Models. S. van Buuren, Multiple Imputation of Multilevel Data. J. Kim, C.M. Swoboda, Handling Omitted Variable Bias in Multilevel Models: Model Specification Tests and Robust Estimation. J.K. Roberts et al., Explained Variance in Multilevel Models. E.L. Hamaker et al., Model Selection Based on Information Criteria in Multilevel Modeling. M. Moerbeek, S. Teerenstra, Optimal Design in Multilevel Experiments. **Part 5. Specific Statistical Issues.** J. Algina, H. Swaminathan, Centering in Two-level Nested Designs. S.N. Beretvas, Cross-classified and Multiple Membership Models. D.A. Kenny, D.A. Kashy, Dyadic Data Analysis Using Multilevel Modeling.

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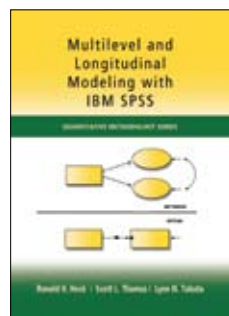
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New!

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 gold mine for graduate instruction!" - Laura M. Stapleton, University of Maryland, Baltimore County, USA

"This text has both depth and breadth of coverage with material that is accessible and transparent to the novice but at the same time comprehensive for the

experienced researcher. It is one of those rare texts that is thorough in both the 'how to's' of the software and the concepts. It is a key multilevel text that any multilevel researcher will not want to be without." - Debbie L. Hahs-Vaughn, University of Central Florida, USA

"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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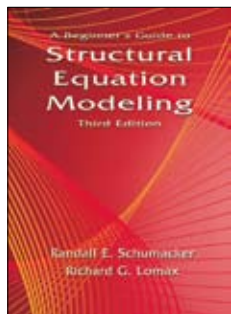
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A Beginner's Guide to Structural Equation Modeling

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

"The reader comes away not only knowing the logistics of how to run the models but also the conceptual of when to run them and how to interpret the findings. Their coverage of assumptions, data cleaning and screening, and common SEM errors is extremely refreshing for those who work with real, messy data." - Debbie Hahs-Vaughn, University of Central Florida, 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 new 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

1. Introduction. 2. Data Entry and Data Editing Issues. 3. Correlation. 4. SEM Basics. 5. Model Fit. 6. Regression Models. 7. Path Models. 8. Confirmatory Factor Models. 9. Developing Structural Equation Models: Part I. 10. Developing Structural Equation Models: Part II. 11. Reporting SEM Research: Guidelines and Recommendations. 12. Model Validation. 13. Multiple Sample, Multiple Group, and Structured Means Models. 14. Second Order, Dynamic, and Multi Trait Multi Method Models. 15. Multiple Indicator Multiple Indicator Cause, Mixture, and Multi-level Models. 16. Interaction, Latent Growth, and Monte Carlo Methods. 17. Matrix Approach to Structural Equation Modeling.

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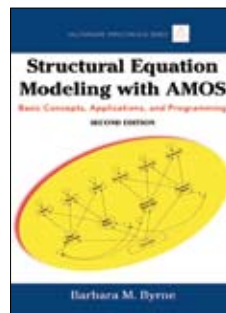
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Structural Equation Modeling With AMOS

Basic Concepts, Applications, and Programming
2nd Edition

Barbara M. Byrne
University of Ottawa, Canada

Multivariate Applications Series



"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

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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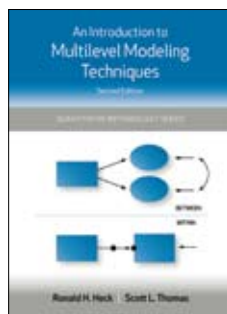
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An Introduction to Multilevel Modeling Techniques

2nd Edition

Ronald H. Heck, University of Hawai'i at Manoa, USA
Scott L. Thomas, Claremont Graduate University, USA

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, USA

"The authors' broad coverage of techniques leaves the reader ready to investigate complex research questions using the latest advancements in multilevel analysis, including mixture and latent transition

analyses." - Laura Stapleton, University of Maryland Baltimore County, USA

This comprehensive, applied approach to multilevel analysis is distinguished by its wide range of applications relevant to the behavioral, educational, organizational, and social sciences. Univariate and multivariate models are used to understand how to design studies and analyze data. Readers are encouraged to consider what they are investigating, their data, and 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.

A latent variable conceptual framework is emphasized to show the commonality of the approaches and to make each technique more accessible. The first section is devoted to conceptual issues underlying multilevel modeling, while the second section develops several types of multilevel analyses including univariate regression, structural equation, growth curve and latent change, and latent variable mixture modeling.

The 2nd edition features:

- New chapters on multilevel longitudinal and categorical models
- 80% new exercises and examples
- Website at www.psypress.com/multilevel-modeling-techniques providing datasets and program setups in HLM, SPSS, Mplus, and LISREL
- 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 and researchers in psychology, business, education, health, and sociology interested in understanding multilevel modeling. Prerequisites include an introduction to data analysis and univariate statistics.

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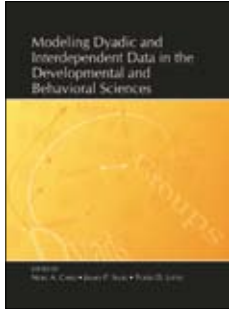
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Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences

Noel A. Card, University of Arizona, USA; James P. Selig, Todd D. Little, University of Kansas, USA (Eds.)



“This is a very important book for those who conduct developmental research on dyads and other interdependent groups. The book positions itself to guide researchers in a direction essential for the field of developmental psychology.” - Clifton R. Emery, *PsycCRITIQUES*

This book reviews methods of conceptualizing, measuring, and analyzing interdependent data in the behavioral sciences. Quantitative and developmental experts describe best practices for

modeling interdependent data that stem from interactions within relationships, and complex models for analyzing longitudinal data, such as growth curves and time series.

Many contributors are innovators of the techniques and all clearly explain the methodologies and their practical problems, including issues of measurement, missing data, power and sample size, and the method's limitations.

Featuring a balance between strategies and applications, the book addresses:

- The Actor-Partner Interdependence Model for analyzing influence between individuals
- The Intraclass Correlational Approach for analyzing distinguishable roles (parent-child) or exchangeable (same-sex) dyadic data
- The Social Relations Model for analyzing group interdependency
- Social Network Analysis approaches for relationships between individuals.

A valuable resource for graduate-level methods courses, this book also appeals to researchers in the developmental, social, behavioral, and educational sciences.

Contents

N.A. Card et al., Modeling Dyadic and Interdependent Data in Developmental Research: An Introduction. B. Laursen et al., Incorporating Interdependence into Developmental Research: Examples from the Study of Homophily and Homogeneity. W.L. Cook, Application of the Social Relations Model Formulas to Developmental Research. A.H.N. Cillessen, C. Borch, Analyzing Social Networks in Adolescence. N. Ram, A.B. Pedersen, Dyadic Models Emerging from the Longitudinal Structural Equation Modeling Tradition: Parallels with Ecological Models of Interspecific Interactions. E. Ferrer, K.F. Widaman, Multilevel Structural Equation Models for Contextual Factors with Inter-Group Differences. P. Sadler, E. Woody, It Takes Two: A Dyadic, SEM-Based Perspective on Personality Development. D.A. Kashy, M.B. Donnellan, Comparing MLM and SEM Approaches to Analyzing Developmental Dyadic Data: Growth Curve Models of Hostility in Families. J.P. Selig et al., Techniques for Modeling Dependency in Interchangeable Dyads. T.E. Malloy, A.H.N. Cillessen, Variance Component Analysis of Generalized and Dyadic Peer Perceptions in Adolescence. N.A. Card et al., Using the Bivariate Social Relations Model to Study Dyadic Relationships: Early Adolescents' Perceptions of Friends' Aggression and Prosocial Behavior. S.J.T. Branje et al., Modeling Interdependence Using the Social Relations Model: The Investment Model in Family Relationships. J. Templin, Methods for

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Applied Data Analytic Techniques For Turning Points Research

Patricia Cohen (Ed.)

Columbia University, New York State Psychiatric Institute, USA

Multivariate Applications Series



“Patricia Cohen and her contributors offer a turning point for applied researchers who want a variety of innovative options for analyzing longitudinal data. The array of contributors is top-notch, with the methods and topics providing valuable, easy-to-understand input to those in multiple disciplines.” - Lisa Harlow, University of Rhode Island, USA

This innovative volume demonstrates the use of a range of statistical approaches that examine ‘turning points’ (a change in

direction, magnitude, or meaning) in real data. Analytic techniques are illustrated with real longitudinal data from a variety of fields. As such the book will appeal to a variety of researchers, including:

- Developmental researchers interested in identifying factors precipitating turning points at various life stages
- Medical or substance abuse researchers looking for turning points in disease or recovery
- Social researchers interested in estimating the effects of life experiences on subsequent behavioral changes
- Interpersonal behavior researchers looking to identify turning points in relationships
- Brain researchers needing to discriminate the onset of an experimentally-produced process in a participant.

This book is ideal for advanced students and researchers interested in identifying significant change in data in a variety of fields including psychology, medicine, education, political science, criminology, and sociology.

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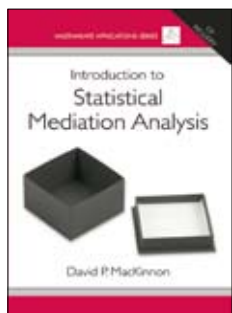
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Introduction to Statistical Mediation Analysis

David MacKinnon

Arizona State University, USA

Multivariate Applications Series



“A welcome addition to the field. ... Important for researchers who want to examine models more complex than simple prediction.” - Lisa L. Harlow, University of Rhode Island, USA

“Overall, I found these chapters to be uniformly excellent. The text was well written, nicely organized, and technically rigorous while remaining broadly accessible.” - Patrick Curran, University of North Carolina, Chapel Hill, USA

This volume introduces the statistical, methodological, and conceptual aspects of mediation analysis. Applications from health, social, and developmental psychology, sociology, communication, exercise science, and epidemiology are emphasized throughout. Single-mediator, multilevel, and longitudinal models are reviewed. The author's goal is to help the reader apply mediation analysis to their own data and understand its limitations.

Each chapter features an overview, numerous worked examples, a summary, and exercises (with answers to half of the questions). The accompanying CD contains outputs described in the book from SAS, SPSS, LISREL, EQS, MPLUS, and CALIS, and a program to simulate the model. The notation used is consistent with existing literature on mediation in psychology.

The book opens with a review of the types of research questions the mediation model addresses. Part II describes the estimation of mediation effects including assumptions, statistical tests, and the construction of confidence limits. Advanced models including mediation in path analysis, longitudinal models, multilevel data, categorical variables, and mediation in the context of moderation are then described. The book closes with a discussion of the limits of mediation analysis, additional approaches to identifying mediating variables, and future directions.

Intended for researchers and advanced students in health, social, clinical, and developmental psychology as well as communication, public health, nursing, epidemiology, and sociology, some exposure to graduate-level research methods or statistics is assumed. The overview of mediation analysis and the guidelines for conducting a mediation analysis will be appreciated by all readers.

Contents

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Model. 3. Single Mediator Model Details. 4. Multiple Mediator Model. 5. Path Analysis Mediation Models. 6. Latent Variable Mediation Models. 7. Longitudinal Mediation Models. 8. Multilevel Mediation Models. 9. Mediation and Moderation. 10. Mediation in Categorical Data Analysis. 11. Computer Intensive Methods for Mediation Models. 12. Causal Inference for Mediation Models. 13. Additional Approaches to Identifying Mediating Variables. 14. Conclusions and Future Directions. Appendices: Answers to Odd-numbered Exercises. Notation.

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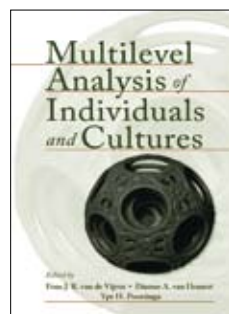
Multilevel Analysis of Individuals and Cultures

Fons J.R. van de Vijver, Tilburg University, The Netherlands;

Dianne A. Van Hemert, University of Amsterdam, The

Netherlands; Ype H. Poortinga, Tilburg University, The

Netherlands and University of Leuven, Belgium (Eds.)



“This book would be a great asset for educators in psychology, sociology, education, and cultural psychology. ... This is a terrific book with many strengths.” - Todd Little, University of Kansas, USA

In this book, top specialists address theoretical, methodological, and empirical multilevel models as they relate to the analysis of individual and cultural data. Divided into four parts, the book opens with the basic conceptual and theoretical issues in multilevel research, including the

fallacies of such research. Part II describes the methodological aspects of multilevel research, including data-analytic and structural equation modeling techniques. Applications and models from various research areas including control, values, organizational behavior, social beliefs, well-being, personality, response styles, school performance, family, and acculturation, are explored in Part III. This section also deals with validity issues in aggregation models. The book concludes with an overview of the kinds of questions addressed in multilevel models and highlights the theoretical and methodological issues yet to be explored.

This book is intended for researchers and advanced students in psychology, sociology, social work, marriage and family therapy, public health, anthropology, education, economics, political science, and cultural and ethnic studies who study the relationship between behavior and culture.

Contents

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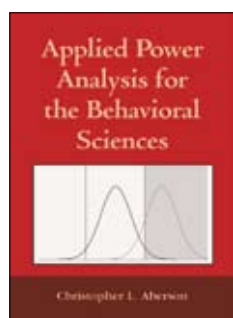
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POWER ANALYSIS & EFFECT SIZES

New!

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

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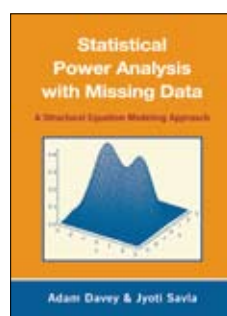
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Statistical Power Analysis with Missing Data

A Structural Equation Modeling Approach

Adam Davey, Temple University, USA
Jyoti Savla, Virginia Polytechnic Institute and State University, USA



“Easy to read and engaging. ... This book will ... be used ... in power analysis and SEM classes ... and by ... individuals who are currently calculating power for research studies.” - Jay Maddock, University of Hawai’i at Manoa, USA

“This text ... is sorely needed. ... The clear writing, examples, and syntax for a variety of programs are major strengths. ... It will make a major and lasting contribution to the field.... Everything that I would want in a text ... is here.” - Jim Deal, North Dakota

State University, USA

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:

- 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 topics. Numerous examples demonstrate the book's application to a variety of disciplines. Each issue is accompanied by its 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. Data sets, syntax files, and links to software packages are found at www.psypress.com/davey. The worked examples in Part 2 also provide results from a wider set of estimated models. These tables, and accompanying syntax, can be used to estimate statistical power or required sample size for similar problems under a wide range of conditions.

An ideal supplement for graduate courses in applied/intermediate or advanced statistics, experimental design, SEM, and power analysis taught in psychology, human development, education, sociology, nursing, social work, gerontology and other social and health sciences, the book also appeals to researchers in these areas.

Contents

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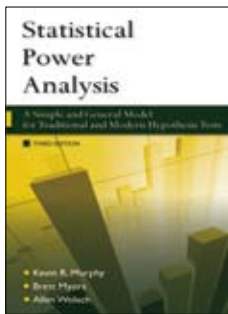
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Statistical Power Analysis

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3rd Edition

Kevin R. Murphy, Pennsylvania State University, USA; Brett Myers, Griffith University, Australia; Allen Wolach (retired), 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 find ... 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, USA

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. Illustrations of how these analyses work and how they can be used to understand

problems of study design, to evaluate research, and to choose the appropriate criterion for defining 'statistically significant' outcomes are sprinkled throughout. The book presents a simple and general model for statistical power analysis that is based on the F statistic.

Statistical Power Analysis 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.psypress.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
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- 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 and researchers in the social, behavioral, and health sciences, business, and education, this valuable resource helps readers apply methods of power analysis to their research. PV and F tables serve as a quick reference.

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. Appendices.

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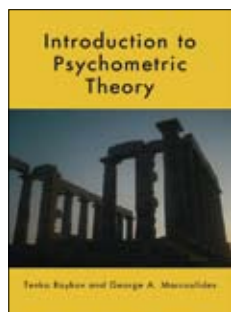
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Tenko Raykov, Michigan State University, USA
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"The market is ... begging for this book. ... The existing texts are either too dated [or] too inaccessible. ... The quality of the scholarship ... is 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 text will make a unique and important contribution to the field. It is extremely well-written. ... An excellent text for a ... course in psychometric theory. ... The references are current,

reflecting the most recent work in classical test theory. The software applications ... are a unique and powerful asset." - Jennifer Rose, Wesleyan University, USA

"[This] book ... [is] accessible to a wide audience. ... I ... would certainly adopt this book ... [for] a graduate-level course ... in educational and psychological measurement. ... One of the strengths ... is the provision of code in the text as well as ... data files and codes on the website. ... What makes the book most unique is the unified treatment of multiple latent-variable methods." - André A. Rupp, University of Maryland, USA

This new text provides a state-of-the-art introduction to educational and psychological testing and measurement theory that reflects many intellectual developments of the past two decades. The book 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 in the behavioral, social, and educational sciences. Readers will find numerous tips on how to use test theory in today's actual testing situations.

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. Essentially all of the data used in the book are available on the website. In addition instructors will find helpful PowerPoint lecture slides and questions and problems for each chapter.

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. The varied applications make this book a valuable tool for those in the behavioral, social, educational, and biomedical disciplines, as well as in business, economics, and marketing. A brief introduction to R is also provided.

Intended as a text 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, it will also appeal to researchers in these disciplines. Prerequisites include an introduction to statistics with exposure to regression analysis and ANOVA. Familiarity with SPSS, SAS, STATA, or R is also beneficial. As a whole, the book provides an invaluable introduction to measurement and test theory to those with limited or no familiarity with the mathematical and statistical procedures involved in measurement and testing.

Contents

1. Measurement, Measuring Instruments, and Psychometric Theory. 2. Basic Statistical Concepts and Relationships. 3. An Introduction to Factor Analysis. 4. Introduction to Latent Variable Modeling and Confirmatory Factor Analysis. 5. Classical Test Theory. 6. Reliability. 7. Procedures for Estimating Reliability. 8. Validity. 9. Generalizability Theory. 10. Introduction to Item Response Theory. 11. Fundamentals and Models of Item Response Theory. Chapter Notes. Appendix. A Brief Introduction to Some Graphics Applications of R in Item Response Modeling.

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Statistical Approaches to Measurement Invariance

Roger Millsap, Arizona State University, USA

"[This] important book ... provides significant guidance to the field on how best to approach the complex problems of test bias, differential item functioning, measurement bias, and predictive validity – all central challenges to those developing psychological and/or educational tests and assessments. ... I would adopt it for use in advanced psychometrics courses." - Howard T. Everson, Graduate School, City University of New York, USA

"I can't think of any quantitative psychologist who wouldn't benefit from reading it." - Steve Reise, University of California – Los Angeles, USA

This book reviews the statistical procedures used to detect measurement bias. Measurement bias is examined from a general latent variable perspective so as to accommodate different forms of testing in a variety of contexts including cognitive or clinical variables, attitudes, personality dimensions, or emotional states. Measurement models that underlie psychometric practice are described, including their strengths and limitations. Practical strategies and examples for dealing with bias detection are provided throughout.

The book begins with an introduction followed by a review of the measurement models used in psychometric theory. Emphasis is placed on latent variable models, with introductions to classical test theory, factor analysis, and item response theory, and the controversies associated with each. Measurement invariance and bias in the context of multiple populations is defined in chapter 3, followed by chapter 4 that describes the common factor model for continuous measures in multiple populations and its use in the investigation of factorial invariance. Identification problems in confirmatory factor analysis are examined along with estimation and fit evaluation and an example using WAIS-R data. The factor analysis model for discrete measures in multiple populations with an emphasis on the specification, identification, estimation, and fit evaluation issues is addressed in the next chapter. An MMPI item data example is provided. Chapter 6 reviews both dichotomous and polytomous item response scales emphasizing estimation methods and model fit evaluation. The use of models in item response theory in evaluating invariance across multiple populations is then described, including an example that uses data from a large-scale achievement test. Chapter 8 examines item bias evaluation methods that use observed scores to match individuals and provides an example that applies IRT to data introduced earlier in the book. The book concludes with the implications of measurement bias for the use of tests in prediction in educational or employment settings.

A valuable supplement for advanced courses on psychometrics, testing, measurement, assessment, latent variable modeling, and/or quantitative methods taught in departments of psychology and education, researchers faced with considering bias in measurement will also value this book.

Contents

1. Introduction. 2. Latent Variable Models. 3. Measurement Bias. 4. The Factor Model and Factorial Invariance. 5. Factor Analysis in Discrete Data. 6. Item Response Theory: Models, Estimation, Fit Evaluation. 7. Item Response Theory: Tests of Invariance. 8. Observed Variable Methods. 9. Bias in Measurement and Prediction.

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Handbook of Polytomous Item Response Theory Models

Michael L. Nering, Measured Progress, Inc., USA
Remo Ostini, Healthy Communities Research Centre,
University of Queensland, Australia (Eds.)



"This really is a 'must read' for measurement students and specialists alike. An outstanding group of authors explain the models, clarify misconceptions, and offer new historical material, methods for evaluating model fit, and innovative applications." - Edward Haertel, Stanford University, USA

"It will likely become a standard reference on polytomous IRT analyses. ... I would definitely buy it and recommend it. I would most likely use it for an advanced IRT

course." - Mark D. Reckase, Michigan State University, USA

This comprehensive handbook focuses on the most used polytomous item response theory models. These models help us understand the interaction between examinees and test questions where the questions have various response categories. The book reviews all of the major models and includes discussions about how and where the models originated. Diverse perspectives on how these models can best be evaluated are also provided. Practical applications provide a realistic account of the issues practitioners face using these models. Disparate elements of the book are linked through editorial sidebars that connect common ideas across chapters, compare and reconcile differences in terminology, and explain variations in mathematical notation. These sidebars help to demonstrate the commonalities that exist across the field. By assembling this critical information, the editors hope to inspire others to use polytomous IRT models in their own research so they too can achieve the type of improved measurement that such models can provide.

Featuring contributions from the leading authorities, this handbook will appeal to measurement researchers, practitioners, and students who want to apply polytomous IRT models to their own research. It will be of particular interest to education and psychology assessment specialists who develop and use tests and measures in their work, especially researchers in clinical, educational, personality, social, and health psychology. It also serves as a supplementary text in graduate courses on educational measurement, psychometrics, or item response theory.

Contents

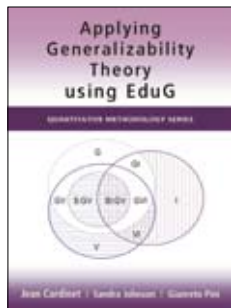
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Applying Generalizability Theory Using EduG

Jean Cardinet, Emeritus, University of Fribourg, Switzerland; Sandra Johnson, Assessment Europe Limited; Gianreto Pini, University of Geneva, Switzerland

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"The publication of this book and the availability of an easy-to-use software will increase the interest and the use of generalizability theory ... making our task of complying with the joint standards on reliability much easier. ... I will make the purchase of the book compulsory for my advanced courses in measurement." - Dany Laveault, University of Ottawa, Canada

Intended to help improve measurement and data collection methods in the behavioral, social, and medical sciences, this book demonstrates an accessible use of Generalizability Theory (G theory) to help understand the way in which the reliability of measurement is ascertained. Sources of score variation are identified as potential contributors to measurement error and taken into account accordingly. The authors demonstrate the potential of G theory by showing how to improve the quality of any kind of measurement, regardless of the discipline.

Readers will appreciate the conversational style used to present a comprehensive review of G theory and its application using the freeware EduG. To maximize understanding, the authors illustrate all fundamental principles with examples from different fields and contexts. Annotated applications lead students through the main concepts, while illustrating both the use of EduG and interpretation of its output. Formulas are avoided wherever possible. Online exercises with datasets allow readers to carry out their own analyses to reinforce understanding.

Ideal as a supplement for courses on measurement theory and/or generalizability theory taught in departments of psychology, education, medicine, and the social sciences, this text will also appeal to researchers from a variety of fields interested in learning how to apply G theory to their studies.

Contents

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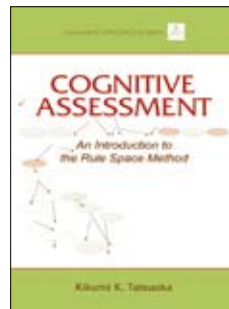
Cognitive Assessment

An Introduction to the Rule Space Method

Kikumi K. Tatsuoka

Distinguished Research Professor, Emeritus, Teachers College, Columbia University, USA

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"Dr. K. Tatsuoka's book demonstrates rich content and brilliant work [that] provides a possible template for assessing the reliability of the underlying cognitive processes of an assessment. Examples span a rich and wide domain reflecting the author's work in applying rule space to a wide array of assessments. ... The book will absolutely make a significant contribution to the field." - Gwyneth M. Boodoo, President, GMB Enterprises

"This book reflects [Dr. K. Tatsuoka's] accomplishments and contributions to educational assessment. It is remarkable in its extensiveness." - Leona Aiken, Arizona State University, USA

This book introduces a new methodology for the analysis of test results. Free from ambiguous interpretations, the results truly demonstrate an individual's progress. The methodology is ideal for highlighting patterns derived from test scores used in evaluating progress. Dr. Tatsuoka introduces readers to the Rule Space Method (RSM), a technique that transforms unobservable knowledge and skill variables into observable and measurable attributes. RSM converts item response patterns into attribute mastery probabilities. RSM is the only up-to-date methodology that can handle large scale assessment for tests such as the SAT and PSAT. PSAT used the results from this methodology to create cognitively diagnostic scoring reports. In this capacity, RSM helps teachers understand what scores mean by helping them ascertain an individual's cognitive strengths and weaknesses. RSM is also used for medical diagnoses, genetics research, and to help classify music into various states of emotions for treating mental problems.

Intended for researchers and graduate students in quantitative, educational, and cognitive psychology, this book also appeals to those in computer science, neuroscience, medicine, and mathematics. It is appropriate for advanced courses on cognometrics, latent class structures, and advanced psychometrics as well as statistical pattern recognition and classification courses.

Contents

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Modern Psychometrics

The Science of Psychological Assessment

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John Rust, The Psychometrics Centre, Cambridge, UK
Susan Golombok, University of Cambridge, UK



“Without assuming any prior knowledge of mathematics, nor of psychology, Modern Psychometrics, 3rd Edition, outlines the major issues in psychometrics and places them into context by reviewing past and current developments in intelligence research and personality theory. This will be an extraordinarily easy book to read for anyone who is interested in learning what psychometrics is about.” - Alberto Maydeu-Oliveras, University of Barcelona, Spain

“This text covers moral and ethical issues in psychometrics extensively. It is very readable and has extensive coverage of some topics that are only briefly mentioned in other texts.” - Lauri Nummenmaa, University of Tampere, Finland

Today psychometrics plays an increasingly important role in all our lives as testing and assessment occur from preschool until retirement. This book introduces the reader to the subject in all its aspects, ranging from its early history, school examinations, how to construct your own test, controversies about IQ, and recent developments in testing on the internet.

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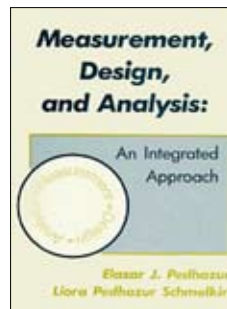
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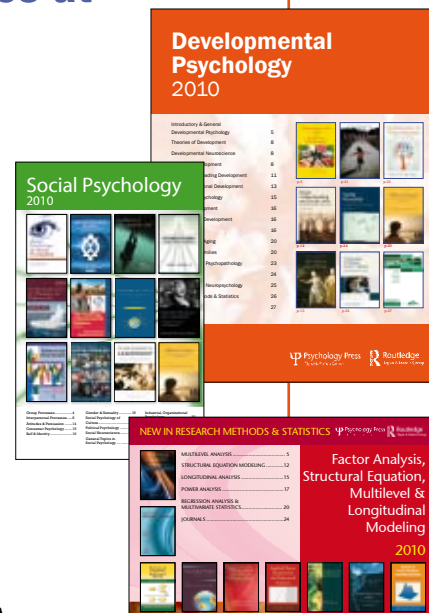
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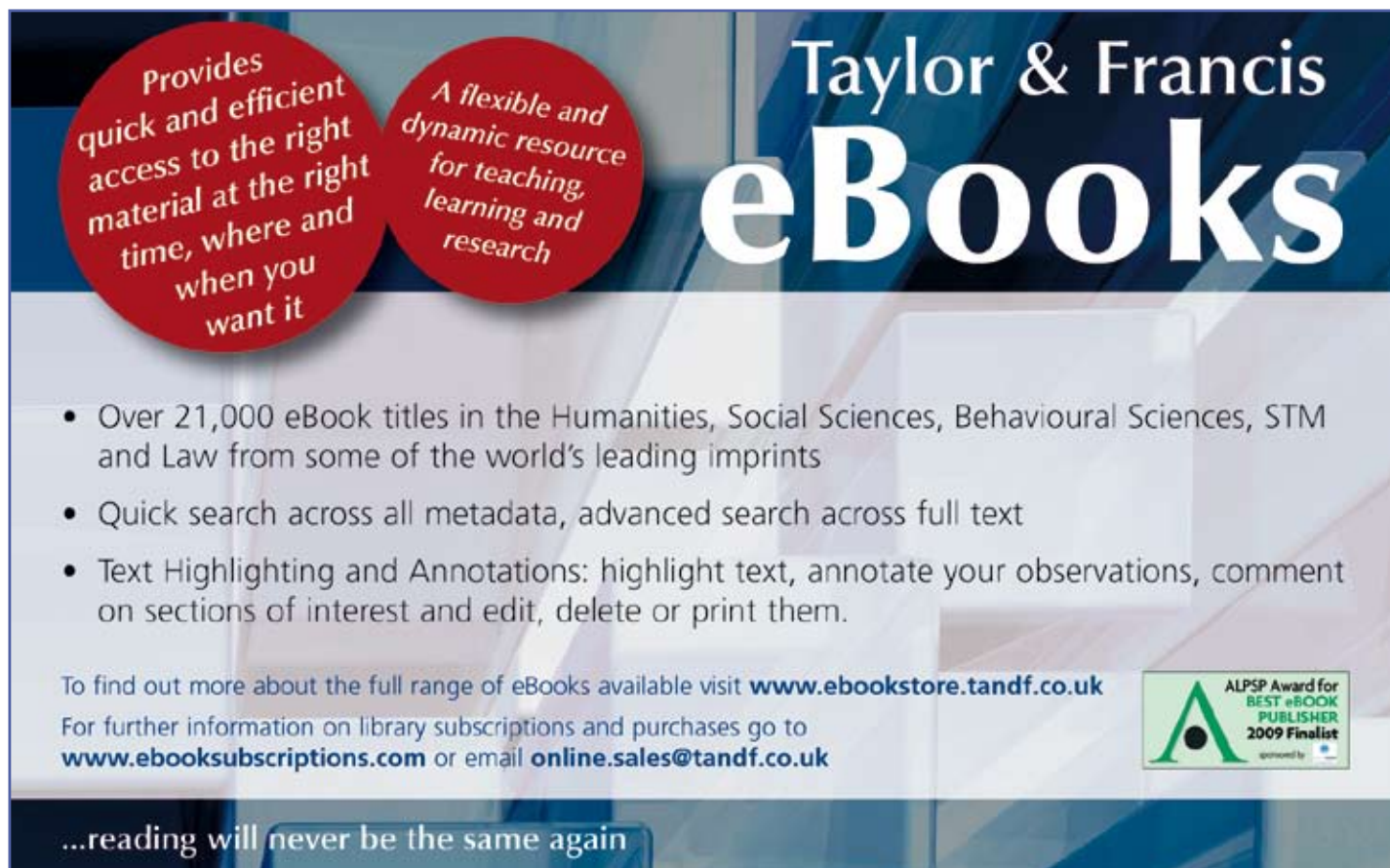
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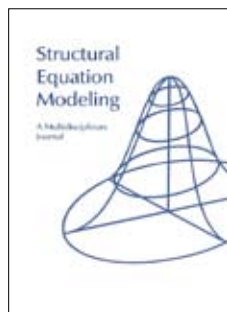
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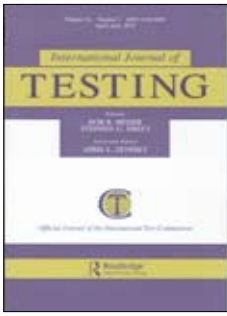
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Index

- Aberson*, Applied Power Analysis for the Behavioral Sciences29
- Azen & Walker*, Categorical Data Analysis for the Behavioral and Social Sciences19
- Bryman & Cramer*, Quantitative Data Analysis with SPSS 14, 15 & 16.....12
- Byrne*, Structural Equation Modeling With AMOS, 2nd Ed.24
- Card et al.*, Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences.....26
- Cardinet et al.*, Applying Generalizability Theory Using EduG.....33
- Chow et al.*, Statistical Methods for Modeling Human Dynamics,17
- Clark-Carter*, Quantitative Psychological Research, 3rd Ed.16
- Cohen*, Applied Data Analytic Techniques For Turning Points Research26
- Cohen et al.*, Applied Multiple Regression/Correlation Analysis for the Behavioral Sciences, 3rd Ed.....21
- Cohen*, Statistical Power Analysis for the Behavioral Sciences, 2nd Ed.31
- Das et al.*, Social and Behavioral Research and the Internet.....15
- Davey & Savla*, Statistical Power Analysis with Missing Data.....29
- Davidov et al.*, Cross-Cultural Analysis.....14
- de Leeuw et al.*, International Handbook of Survey Methodology.....18
- Dugard et al.*, Approaching Multivariate Analysis, 2nd Ed.20
- Gliner et al.*, Research Methods in Applied Settings, 2nd Ed.16
- Heck & Thomas*, An Introduction to Multilevel Modeling Techniques, 2nd Ed.25
- Heck et al.*, Multilevel and Longitudinal Modeling with IBM SPSS23
- Hox*, Multilevel Analysis, 2nd Ed.22
- Hox & Roberts*, Handbook of Advanced Multilevel Analysis.....23
- Huck*, Statistical Misconceptions6
- Johnston & Pennypacker*, Strategies and Tactics of Behavioral Research, 3rd Ed.18
- Judd et al.*, Data Analysis, 2nd Ed.7
- Kinnear & Gray*, IBM SPSS Statistics 18 Made Simple11
- Lance & Vandenberg*, Statistical and Methodological Myths and Urban Legends.....7
- Leech et al.*, IBM SPSS for Intermediate Statistics, 4th Ed.10
- Lomax*, An Introduction to Statistical Concepts, 2nd Ed.8
- Lomax*, Statistical Concepts, 3rd Ed.8
- MacKinnon*, Introduction to Statistical Mediation Analysis.....27
- Millsap*, Statistical Approaches to Measurement Invariance.....32
- Morgan et al.*, IBM SPSS for Introductory Statistics, 4th Ed.9
- Murphy et al.*, Statistical Power Analysis, 3rd Ed.30
- Myers et al.*, Research Design and Statistical Analysis, 3rd Ed.14
- Nering & Ostini*, Handbook of Polytomous Item Response Theory Models32
- Panter & Sterba*, Handbook of Ethics in Quantitative Methodology.....13
- Pedhazur & Pedhazur Schmelkin*, Measurement, Design, and Analysis.....34
- Raykov & Marcoulides*, An Introduction to Applied Multivariate Analysis.....21
- Raykov & Marcoulides*, Introduction to Psychometric Theory31
- Rust & Golombok*, Modern Psychometrics, 3rd Ed.34
- Schumacker & Lomax*, A Beginner's Guide to Structural Equation Modeling, 3rd Ed.24
- Stevens*, Applied Multivariate Statistics for the Social Sciences, 5th Ed.20
- Tatsuoka*, Cognitive Assessment.....33
- Urdan*, Statistics in Plain English, 3rd Ed.6
- Valsiner & Rudolph*, Mathematical Models for Research on Cultural Dynamics14
- van de Vijver et al.*, Multilevel Analysis of Individuals and Cultures27



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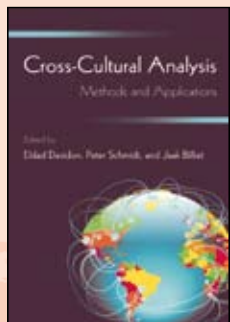
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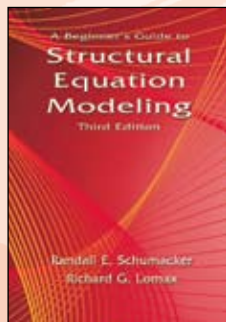


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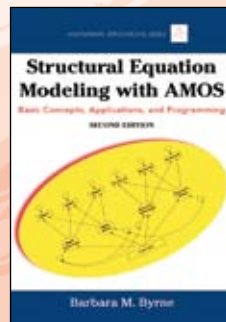
Research Methods & Statistics 2010–2011



p.14



p.24



p.24



p.15



p.23



p.37

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