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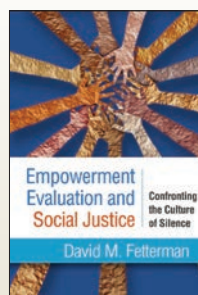
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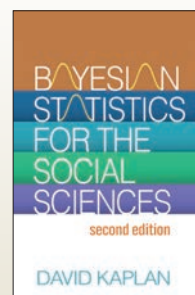
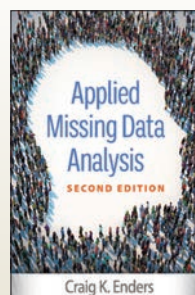
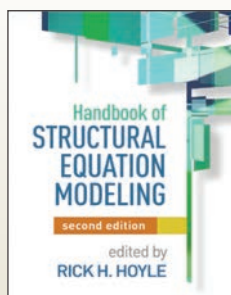
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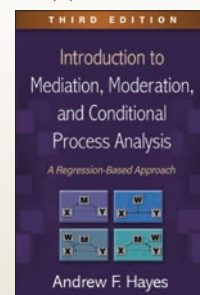
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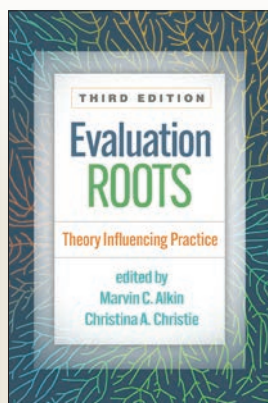
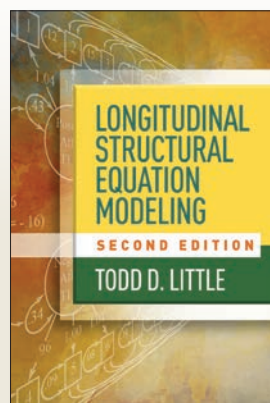
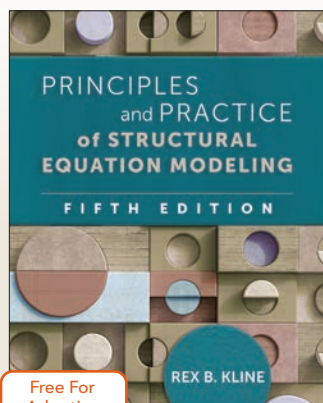
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RESEARCH METHODS

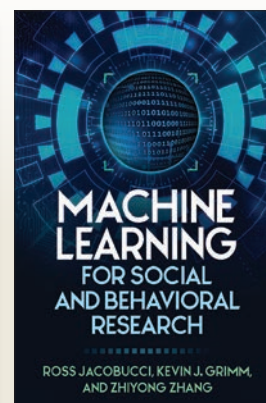
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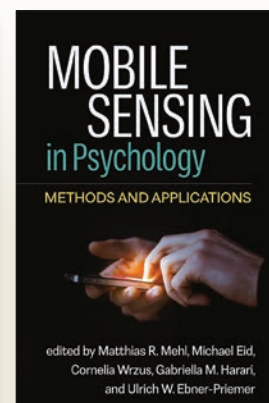
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## New

**Machine Learning for Social and Behavioral Research****Ross Jacobucci**, Department of Psychology, University of Notre Dame**Kevin J. Grimm**, Department of Psychology, Arizona State University**Zhiyong Zhang**, Department of Psychology, University of Notre Dame

Today's social and behavioral researchers increasingly need to know: "What do I do with all this data?" This book provides the skills needed to analyze and report large, complex data sets using machine learning tools, and to understand published machine learning articles. Techniques are demonstrated using actual data (Big Five Inventory, early childhood learning, and more), with a focus on the interplay of statistical algorithm, data, and theory. The identification of heterogeneity, measurement error, regularization, and decision trees are also emphasized. The book covers basic principles as well as a range of methods for analyzing univariate and multivariate data (factor analysis, structural equation models, and mixed-effects models). Analysis of text and social network data is also addressed. End-of-chapter "Computational Time and Resources" sections include discussions of key R packages.

**CRITICAL ACCLAIM**

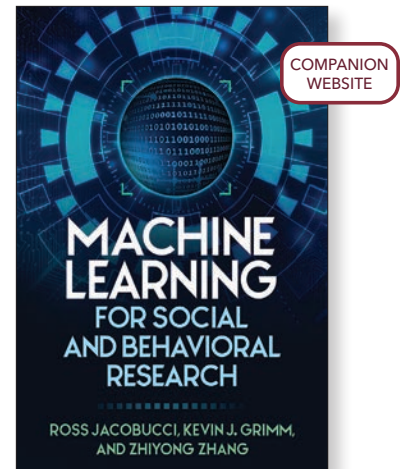
"Current, highly informative, and useful, this is a 'go-to' book for social science graduate students, faculty, and practitioners seeking a strong introduction to machine learning. Unlike typical, more technical machine learning books, this one is unique in providing the strong psychological measurement guidance required to apply these techniques most appropriately." —**Fred Oswald, Rice University**

"Social scientists need to be educated about the pros and cons of machine learning methods and about how, when, and why these methods can be applied to their research topics. The book describes key techniques in enough detail to enable readers to subsequently digest more specialized journal articles or software applications, but not in so much detail as to lose momentum."

—**Sonya K. Sterba, Vanderbilt University**

"Jacobucci, Grimm, and Zhang's ambitious book takes the reader on an in-depth tour of machine learning methods. Its strength is that the authors link machine learning to more traditional topics of regression, structural equation modeling, factor analysis, and network analysis methods. This book should be required reading for the new generation of psychology graduate students who are interested in more advanced quantitative methods." —**James W. Pennebaker, The University of Texas at Austin**

"A 'must read' for social scientists who want to familiarize themselves with machine learning but don't know where to start. Understanding the practices and principles of machine learning is fundamental to modern data analysis. Many social scientists will be surprised by how well their traditional statistical training has prepared them to grasp the material in the book."

—**Alexander Christensen, Vanderbilt University**Methodology in the  
Social Sciences Series2023, 7" x 10" Paperback, 416 Pages  
ISBN 978-1-4625-5292-4, \$62.00Hardcover:  
ISBN 978-1-4625-5293-1, \$93.00

The companion website provides  
R programming scripts and data for  
the book's examples:  
[www.guilford.com/jacobucci-materials](http://www.guilford.com/jacobucci-materials)

**CONTENTS****I. Fundamental Concepts**

1. Introduction
2. The Principles of Machine Learning Research
3. The Practices of Machine Learning

**II. Algorithms for Univariate Outcomes**

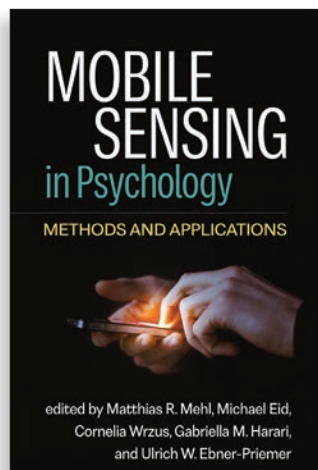
4. Regularized Regression
5. Decision Trees
6. Ensembles

**III. Algorithms for Multivariate Outcomes**

7. Machine Learning and Measurement
8. Machine Learning and Structural Equation Modeling
9. Machine Learning with Mixed-Effects Models
10. Searching for Groups

**IV. Alternative Data Types**

11. Introduction to Text Mining
12. Introduction to Social Network Analysis



November 20, 2023

7" x 10" Hardcover, 802 Pages

ISBN 978-1-4625-5310-5, \$125.00

**New****Mobile Sensing in Psychology***Methods and Applications*

Edited by

**Matthias R. Mehl**, Department of Psychology, University of Arizona**Michael Eid**, Department of Psychology, Free University of Berlin**Cornelia Wrzus**, Department of Psychology, Ruprecht Karl of Heidelberg, Germany**Gabriella M. Harari**, Department of Communication, Stanford University**Ulrich W. Ebner-Priemer**, Chair of Applied Psychology,

Karlsruhe Institute of Technology, Germany

Foreword by **Thomas Insel, MD**

"Mobile sensing is set to transform the field of psychology. This volume, with its readable and practical chapters on every important element of mobile sensing research, is an essential companion for anyone doing work in this area."

—**Samuel D. Gosling**, *The University of Texas at Austin*

Written expressly for social and behavioral scientists, this cutting-edge handbook describes the key concepts and tools of mobile sensing and explains how to plan and conduct a mobile sensing study. Renowned experts address the whats, whys, and how-tos of collecting "big data" using smartphones and other wearables, and explore which research questions can best be addressed with these tools. Modern statistical methods for analyzing mobile sensing data are described—for example, dynamic structural equation modeling, network modeling, and machine learning, including deep neural networks. Key methodological challenges and ethical/privacy issues are highlighted throughout.

**TOPICS:****Background and Key Concepts**

- How to Conduct Mobile Sensing Research
- Designing for Privacy
- Transparency and Reproducibility

**Technological Know-How and Methodical How-To**

- Acquisition and Analysis of Location Data
- Acquisition and Analysis of Physical Behavior Data
- Acquisition and Analysis of Ambulatory Autonomic Nervous System Data

- Analysis of Phone Logs and Phone Usage Patterns
- Mobile Application Usage in Psychological Research
- Examining Well-Being in Situated Contexts with Computational Modeling of Social Media Data
- Behavioral Audio Signal Processing
- Acquisition and Analysis of Camera Sensor Data (Lifelogging)
- Beyond the Smartphone
- Viva Experience Sampling

**Analysis of Mobile Sensing Data**

- A Psychometric Perspective

- Dynamic Structural Equation Modeling
- Dynamic Network Analysis
- Machine Learning
- Deep-Learning Methods
- Big Data Dimensionality Reduction Methods

**Mobile Sensing Applications in Psychological Science**

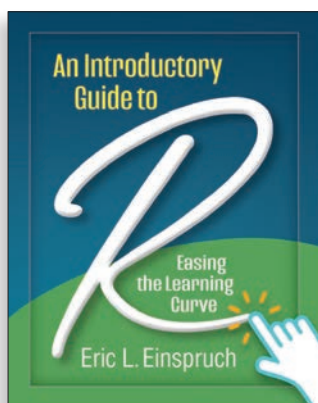
- Personality Science
- Moral Psychology
- Relationship Research
- Wearable Technologies in the Workplace

- Emotion Detection
- Cognition on the Go
- Developmental Science
- Aging Research
- mHealth Interventions for Health Behaviors
- Clinical Psychology
- Smart Interventions
- Behavior Change
- Neuroscience

**Conclusions and Future Directions**

- Mobile Sensing in Psychology

**Table of Contents and Contributor Details:** [www.guilford.com/p/meh12](http://www.guilford.com/p/meh12)

**An Introductory Guide to R***Easing the Learning Curve***Eric L. Einspruch**, ELE Consulting, Lake Oswego, OR

"I will use this book as a researcher and will recommend it to students and colleagues. The author provides easy-to-follow steps and screenshots to help users get started with R and to perform many common statistical analyses.... This book is practical, helpful, and timely."

—**Julie Combs**, *Educational Leadership*, *Sam Houston State University*

A friendly, straightforward guide that does not assume knowledge of programming, this book helps new R users hit the ground running. Eric L. Einspruch provides an overview of the software and shows how to download and install R, RStudio, and R packages. The book features example code, screenshots, tips, learning exercises, and worked-through examples of statistical techniques.

2022, 7 7/8" x 9 3/4" Paperback, 196 Pages, ISBN 978-1-4625-4988-7, \$35.00

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## New

**Empowerment Evaluation and Social Justice***Confronting the Culture of Silence*

**David M. Fetterman**, Fetterman & Associates; Professor of Business and Leadership,  
University of Charleston, WV

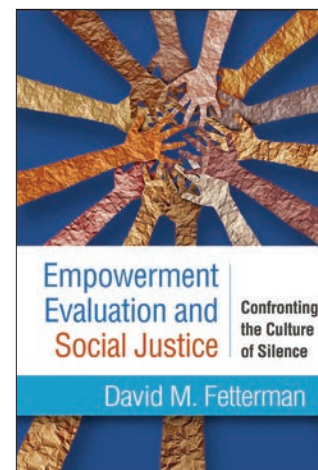
"This book is real-world and integrative, drawing on theories of cultural transformation and social justice while offering practical insights into how self-determination, self-efficacy, and transformative change can be achieved within existing programs and organizations....Fetterman has given us the insight and tools to be social justice advocates and change agents, which is no small contribution. This text should be part of every evaluation program."

—Gary J. Skolits, *Educational Leadership (Emeritus), University of Tennessee*

"A vital resource for anyone looking to build evaluation capacity, facilitate change, and contribute to transformation. A leader in evaluation, Fetterman is uniquely situated to contribute to our understanding of tools and strategies for pursuing social justice. The book is special in its applicability in both the classroom and the field."

—Kelly Melekis, *Social Work, University of Vermont*

From the founder of empowerment evaluation (EE), a framework uniquely suited to advancing social justice causes, this book explains the theories, principles, and steps of conducting EE from scratch or within a preexisting evaluation or work plan. David M. Fetterman describes how EE enables program planners and participants to define their mission or purpose, take stock of how well they are doing, and plan for the future to achieve self-determined goals. EEs of two large programs (Feeding America and USAID/REACH) are discussed in depth; other EE case examples address such topics as raising test scores in impoverished and rural schools and bridging the digital divide in communities of color.



2023, 6" x 9" Paperback, 154 Pages  
ISBN 978-1-4625-5195-8, \$40.00

Hardcover:  
ISBN 978-1-4625-5196-5, \$60.00

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**CONTENTS**

Preface

Glossary of Acronyms

1. Introduction

2. Essential Features

3. Integrating EE within a Preexisting Evaluation  
and Recognizing Donors as Change Agents

4. Integrating EE within a Preexisting Workplan  
and Celebrating Donors as Change Agents

5. Tech Tools

6. EE: Frequently Asked Questions

7. Conclusion

## New

**Cost-Inclusive Evaluation***Planning It, Doing It, Using It*

**Nadini Persaud**, Department of Management Studies,  
University of the West Indies, Cave Hill Campus, Barbados

**Brian T. Yates**, Department of Psychology, American University

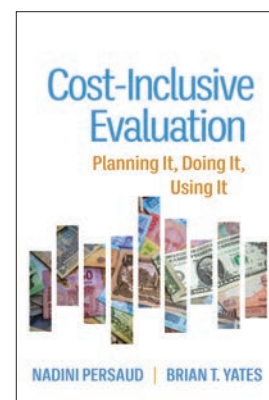
Foreword by **Michael Scriven**, Claremont Graduate University

"This book delves into program costs through a genuinely evaluative lens, strengthening evaluators' understanding of program outcomes and impacts....A straightforward, user-friendly guide for novice to seasoned evaluators."

—Mita Marra, *Social Sciences, University of Naples Federico II, Italy;*  
*Editor-in-Chief, Evaluation and Program Planning*

In accessible language and without complex formulas, this book provides a roadmap for measuring program costs and outcomes and analyzing cost-effectiveness, cost-benefit, and cost-utility. Also explained are simplified ways to use economic appraisal methodologies—such as net present valuation, internal rate of return computation, and payback period determination—in a cost-inclusive evaluation.

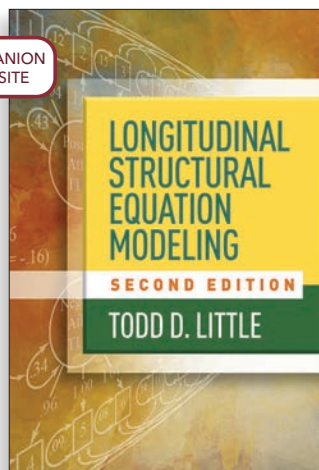
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The companion website provides data sets for the examples—including studies of bullying and victimization, adolescents' emotions, and healthy aging—along with syntax and output, chapter quizzes, and the book's figures.

### New Edition—Revised & Expanded!

## Longitudinal Structural Equation Modeling SECOND EDITION

**Todd D. Little**, Department of Educational Psychology, Texas Tech University

Foreword by **Noel A. Card**, Division of Family Studies and Human Development, University of Arizona

"Little has created not just a wonderful academic resource, but a longitudinal research companion. The second edition features incredibly lucid explanations, useful modeling tips, an extremely accessible style, and cutting-edge updated and new content. Graduate students as well as applied researchers will feel a lot more confident planning for, wading into, and making sense of the intricacies of their longitudinal and developmental phenomena."

—**Gregory R. Hancock**, *Human Development and Quantitative Methodology*,  
University of Maryland, College Park

"This is a good core textbook for an advanced course in structural equation modeling (SEM). It can even be used as a text for an introductory SEM course....What is special about this book is the extensive use of examples, the end-of-chapter summaries (including definitions), and the detailed discussion of many problems, issues, and controversies."

—**Douglas Baer**, *Sociology (Emeritus)*, University of Victoria, Canada

Beloved for its engaging, conversational style, this valuable book is now in a fully updated second edition that presents the latest developments in longitudinal SEM and new chapters on missing data, the random intercepts cross-lagged panel model (RI-CLPM), longitudinal mixture modeling, and Bayesian SEM. Emphasizing a decision-making approach, leading methodologist Todd D. Little describes the steps of modeling a longitudinal change process. He explains the big picture and technical how-tos of using longitudinal confirmatory factor analysis, longitudinal panel models, and hybrid models for analyzing within-person change. User-friendly features include equation boxes that translate all the elements in every equation, tips on what does and doesn't work, end-of-chapter glossaries, and annotated suggestions for further reading.

### NEW TO THIS EDITION

- ✓ Chapter on missing data, with a spotlight on planned missing data designs and the R-based package PcAux.
- ✓ Chapter on longitudinal mixture modeling, with *Whitney Moore*.
- ✓ Chapter on the random intercept cross-lagged panel model (RI-CLPM), with *Danny Osborne*.
- ✓ Chapter on Bayesian SEM, with *Mauricio Garnier-Villarreal*.
- ✓ Revised throughout with new developments and discussions, such as how to test models of experimental effects.

### CONTENTS

- |                                                              |                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Foreword, <i>Card</i>                                        | 8. Multiple-Group Longitudinal Models                                                |
| 1. Overview and Foundations of Structural Equation Modeling  | 9. The Random Intercept Cross-Lagged Panel Model, <i>Osborne &amp; Little</i>        |
| 2. Design Issues in Longitudinal Studies                     | 10. Mediation and Moderation                                                         |
| 3. Modern Approaches to Missing Data in Longitudinal Studies | 11. Multilevel Growth Curves and Multilevel SEM                                      |
| 4. The Measurement Model                                     | 12. Longitudinal Mixture Modeling: Finding Unknown Groups, <i>Moore &amp; Little</i> |
| 5. Model Fit, Sample Size, and Power                         | 13. Bayesian Longitudinal SEM, <i>Garnier-Villarreal &amp; Little</i>                |
| 6. The Longitudinal CFA Model                                | 14. Jambalaya: Complex Construct Representations and Decompositions                  |
| 7. Specifying and Interpreting a Longitudinal Panel Model    |                                                                                      |

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**New Edition—Revised & Updated!**

## Bayesian Statistics for the Social Sciences

### SECOND EDITION

**David Kaplan**, Department of Educational Psychology, University of Wisconsin–Madison

“This very practical book is well suited to social science students because of the examples used (large-scale surveys) and the coverage of methods that social scientists often need (latent variables, variable selection, and dealing with missing data). The book also covers some topics readers may not know they need.”

—David Rindskopf, *Educational Psychology and Psychology,*  
*The Graduate Center, The City University of New York*

“Kaplan’s book is the perfect follow-up for those whose curiosity has been piqued about Bayesian statistics. The many code examples will give users a head start for applying Bayes’ theorem to their data. I highly appreciate that the author uses open-source software for all models. The topics are introduced with a rich amount of background information.”

—Rens van de Schoot, *Methodology and Statistics, Utrecht University, Netherlands*

The second edition of this practical book equips social science researchers to apply the latest Bayesian methodologies to their data analysis problems. Clearly explaining frequentist and epistemic probability and prior distributions, the second edition emphasizes use of the open-source RStan software package. The text covers Hamiltonian Monte Carlo, Bayesian linear regression and generalized linear models, model evaluation and comparison, multilevel modeling, models for continuous and categorical latent variables, missing data, and more. Concepts are fully illustrated with worked-through examples from large-scale educational and social science databases, such as the Program for International Student Assessment and the Early Childhood Longitudinal Study. Annotated RStan code appears in screened boxes.

**NEW TO THIS EDITION:** Utilizes the R interface to Stan—faster and more stable than previously available Bayesian software—for most of the applications discussed. ✓ Coverage of Hamiltonian MC; Cromwell’s rule; Jeffreys’ prior; the LKJ prior for correlation matrices; model evaluation and model comparison, with a critique of the Bayesian information criterion; variational Bayes as an alternative to Markov chain Monte Carlo (MCMC) sampling; and other new topics. ✓ Chapters on Bayesian variable selection and sparsity, model uncertainty and model averaging, and Bayesian workflow for statistical modeling.

## Statistics Translated, SECOND EDITION

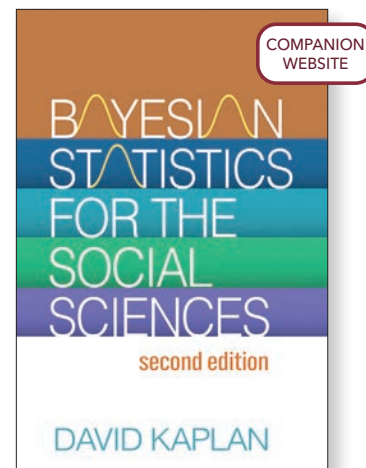
*A Step-by-Step Guide to Analyzing and Interpreting Data***Steven R. Terrell**, Nova Southeastern University (Emeritus)

“Offers clear explanations of relatively advanced ideas and infuses ethics into statistical decision making.... This user-friendly text surely will be widely adopted in college classrooms and kept as a reference guide by professionals long after they complete their required statistics course.”

—Matthew K. Burns, *Special Education and Center for Collaborative Solutions*  
*for Kids, Practice, and Policy, University of Missouri–Columbia*

Roping the reader in with humor and real-world case examples presented as mysteries to be solved, this engaging text has been updated with new cases, the latest version of SPSS, and new coverage of multivariate analysis of variance. Steven R. Terrell prepares students and practitioners to become informed consumers of statistics so that they can make decisions based on data, and understand decisions others have made.

2021, 7" x 10" Paperback, 433 Pages, ISBN 978-1-4625-4540-7, \$59.00



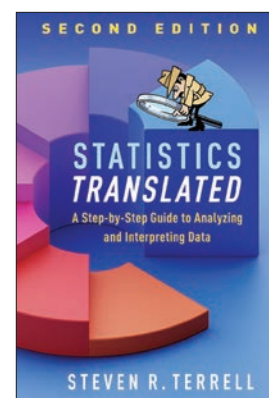
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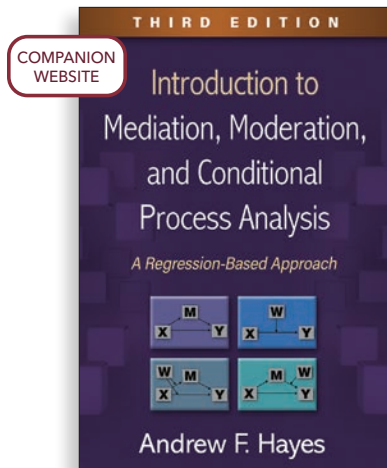
7" x 10" Hardcover, 250 Pages

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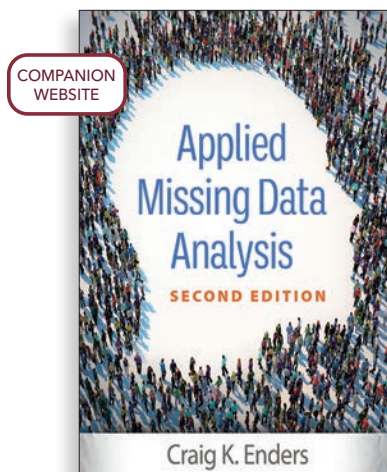
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sets and analysis examples from the book,  
up-to-date software information, and other  
resources: [www.appliedmissingdata.com](http://www.appliedmissingdata.com)

## ★ *Bestseller*

# Introduction to Mediation, Moderation, and Conditional Process Analysis

THIRD EDITION

*A Regression-Based Approach*

**Andrew F. Hayes**, Haskayne School of Business, University of Calgary

"Adding to the appeal of the third edition are features such as the new code for R users—now available for every example in the book—and techniques to analyze the strength of two specific direct effects that differ in sign."

—Julian Barling, Business, Queen's University, Canada

"Making the incredibly flexible and useful analytic tools of PROCESS available for a free, open-source statistical software program is a huge contribution to the field. This is a most useful book for advanced graduate courses that focus on regression, as well as for faculty."

—Michael D. Broda, Education, Virginia Commonwealth University

Acclaimed for its thorough presentation of mediation, moderation, and conditional process analysis, this book has been updated to reflect the latest developments in PROCESS for SPSS, SAS, and, new to this edition, R. Using the principles of ordinary least squares regression, Andrew F. Hayes illustrates each step in an analysis using diverse examples from published studies, and displays SPSS, SAS, and R code for each example. Procedures are outlined for estimating and interpreting direct, indirect, and conditional effects; probing and visualizing interactions; testing hypotheses about the moderation of mechanisms; and reporting different types of analyses. Readers gain an understanding of the link between statistics and causality, as well as what the data are telling them.

## *New Edition—A Major Revision*

# Applied Missing Data Analysis

SECOND EDITION

**Craig K. Enders**, Department of Psychology, University of California, Los Angeles

"Reading this book feels like being guided by the author through a comprehensive one-on-one workshop. A gift to the field!"

—Sonya K. Sterba, Psychology and Quantitative Methods, Vanderbilt University

"I learn something new (or better understand something I thought I knew) every time I pick up this book! The presentation of how to report results from a missing data analysis, which gives explicit examples of such reporting for a wide variety of scenarios, is particularly useful."

Donald Hedeker, Public Health Sciences, University of Chicago

The most user-friendly and authoritative resource on missing data has been completely revised to make room for the latest developments that make handling missing data more effective. The second edition includes new methods based on factored regressions, newer model-based imputation strategies, and innovations in Bayesian analysis. State-of-the-art technical literature on missing data is translated into accessible guidelines for applied researchers and graduate students. The second edition takes an even, three-pronged approach to maximum likelihood estimation (MLE), Bayesian estimation as an alternative to MLE, and multiple imputation. Consistently organized chapters explain the rationale and procedural details for each technique and illustrate the analyses with engaging worked-through examples on such topics as young adult smoking, employee turnover, and chronic pain.



★ **New Edition of a Bestselling Text and Reference—A Major Revision!**

## Principles and Practice of Structural Equation Modeling FIFTH EDITION

**Rex B. Kline**, Department of Psychology, Concordia University

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"The fifth edition's breadth and timeliness make it an easy choice as the primary text in a graduate course on structural equation modeling (SEM)...Kline's embrace of open-source R software for SEM is very welcome, as it makes the book's computer examples immediately accessible to readers everywhere."

—Edward E. Rigdon, Robinson College of Business, Georgia State University

"Kline's fifth edition is thoroughly updated and greatly expanded. I love the emphasis on Open Science, and I am impressed by the variety of new methodological techniques in SEM that Kline has managed to effectively introduce in the fifth edition. I can't wait to use this text in my SEM class!"

—D. Betsy McCoach, Education, University of Connecticut

Significantly revised, the fifth edition of the most complete, accessible text now covers all three approaches to SEM—covariance-based SEM, nonparametric SEM (Pearl's structural causal model), and composite SEM (partial least squares path modeling). With increased emphasis on freely available software tools such as the R lavaan package, the text uses data examples from multiple disciplines to provide a comprehensive understanding of all phases of SEM—what to know, best practices, and pitfalls to avoid. It includes exercises with answers, rules to remember, topic boxes, and new self-tests on significance testing, regression, and psychometrics.

**NEW TO THIS EDITION:** Chapters on composite SEM, also called partial least squares path modeling or variance-based SEM; conducting SEM analyses in small samples; and recent developments in mediation analysis. ✓ Coverage of new reporting standards for SEM analyses; piecewise SEM, also called confirmatory path analysis; comparing alternative models fitted to the same data; and issues in multiple-group SEM. ✓ Extended tutorials on techniques for dealing with missing data in SEM and instrumental variable methods to deal with confounding of target causal effects.

**New Edition—A Major Revision!**

## Handbook of Structural Equation Modeling SECOND EDITION

Edited by **Rick H. Hoyle**, Department of Psychology and Neuroscience, Duke University

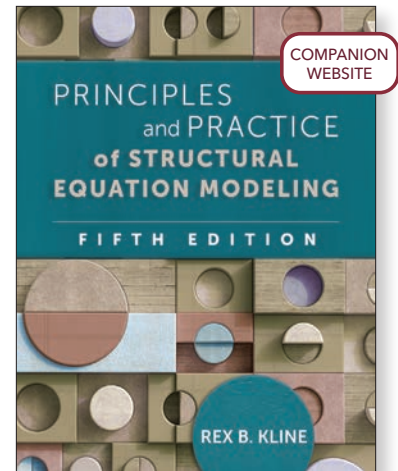
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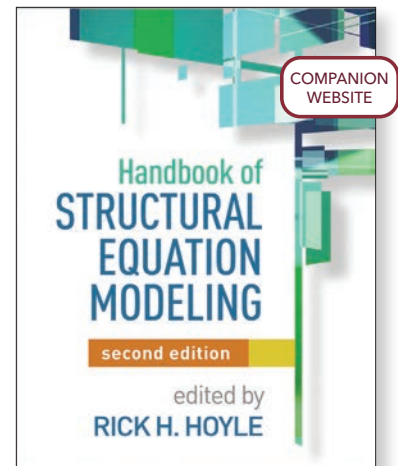


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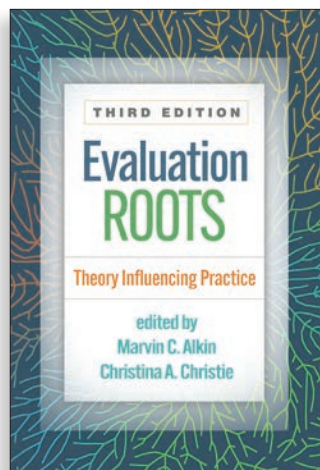


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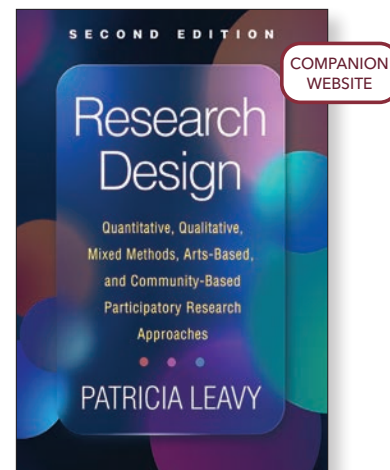
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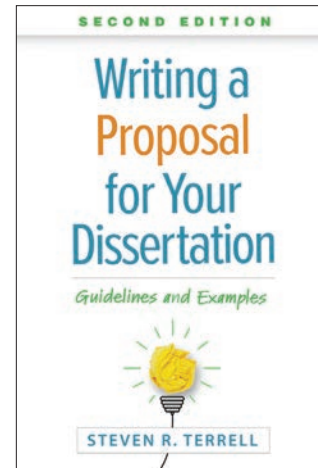
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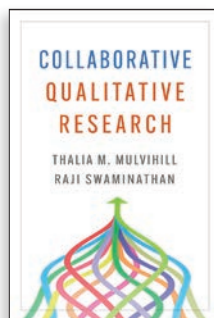
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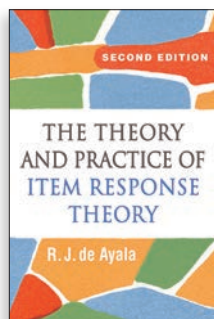
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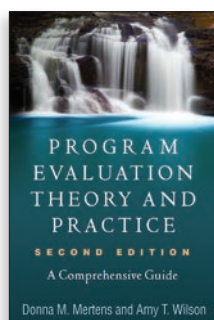
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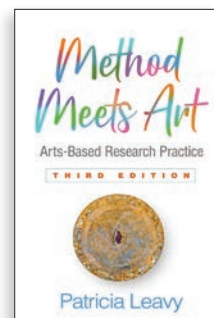
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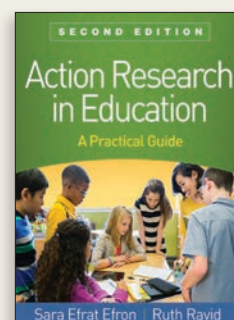
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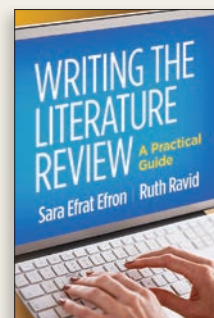
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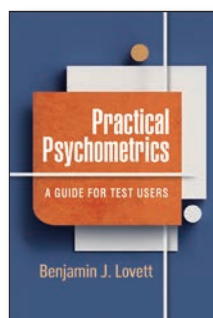
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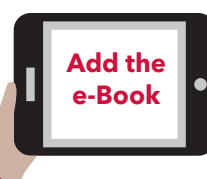
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