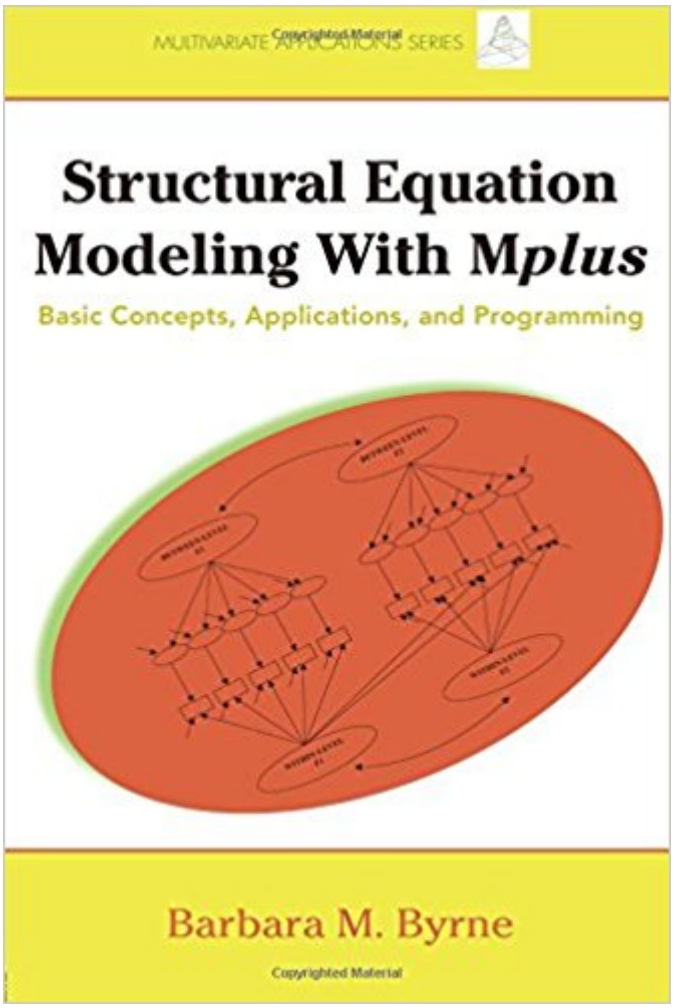
Structural Equation Modeling With Mplus: Basic Concepts, Applications, And Programming (Multivariate Applications Series)



Synopsis

Modeled after Barbara ByrneÃ¢â ¬â„¢s other best-selling structural equation modeling (SEM) books, this practical guide reviews the basic concepts and applications of SEM using Mplus Versions 5 &Ã Â 6. The author reviews SEM applications based on actual data taken from her own research. Using non-mathematical language, it is written for the novice SEM user. With each application chapter, the author "walks" the reader through all steps involved in testing the SEM model including: an explanation of the issues addressed illustrated and annotated testing of the hypothesized and post hoc models explanation and interpretation of all Mplus input and output files important caveats pertinent to the SEM application under study a description of the data and reference upon which the model was based the corresponding data and syntax files available at http://www.psypress.com/sem-with-mplus/datasets . The first two chapters introduce the fundamental concepts of SEM and important basics of the Mplus program. The remaining chapters focus on SEM applications and include a variety of SEM models presented within the context of three sections: Single-group analyses, Multiple-group analyses, and other important topics, the latter of which includes the multitrait-multimethod, latent growth curve, and multilevel models. Intended for researchers, practitioners, and students who use SEM and Mplus, this book is an ideal resource for graduate level courses on SEM taught in psychology, education, business, and other social and health sciences and/or as a supplement for courses on applied statistics, multivariate statistics, intermediate or advanced statistics, and/or research design. Appropriate for those with limited exposure to SEM or Mplus, a prerequisite of basic statistics through regression analysis is recommended.

Book Information

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Customer Reviews

"Barbara Byrne has published another winner--a practically oriented, thorough, and accessible resource for students and researchers who want to harness the power of Mplus for their SEM analyses. The writing is clear and engaging. I anticipate assigning the book in my graduate SEM course and recommending it to fellow researchers. This book will be a valuable resource for moving from knowing about SEM to using it." - Rick H. Hoyle, Duke University, USA "This book provides a good starting point to newcomers to Mplus. It focuses, as it should for an introductory text, on the basics of 'classical' SEM. If you are new to SEM, plan on using Mplus, and are looking for an introductory text with minimal statistical jargon, this is it." - Albert Maydeu-Olivares, University of Barcelona, Spain "A solid introduction to the use of Mplus for SEM. All of the common types of structural equation models are illustrated using real examples, building the Mplus syntax from start to finish. The book is an excellent and readable guide for researchers and students who want to learn more about SEM in the context of Mplus."Ã Â - Roger E. Millsap, Arizona State University, USA "A hallmark of Byrne's booksÃ Â is their accessibility to new users. Ã¢â ¬Â¦ Byrne has done a great service to the field by bringing thousands of students and researchers to structural equation modeling through her clear writing and accessible examples. This book will be another contribution along those same lines. .... I field many, many questions Ã¢â ¬Â¦ that could be answered by simply referring the asker to a book like Byrne's."Ã Â - Kristopher J. Preacher, University of Kansas, USA "The book is targeted to non-mathematical readers, and hence it focuses on the applications of SEM. It does this very nicely, beginning from the part that covers the basic ideas of SEM and shows how to get started with the Mplus. Overall, this book is an excellent resource for a beginner interested in SEM with Mplus." -Kimmo Vehkalahti, Department of Social Research, Statistics, University of Helsinki, Finland "Through the use of illustrative examples, this much-needed and well-written book provides an accessible presentation of SEM with Mplus. Those new to SEM and/or Mplus will find ByrneÃ¢â ¬â„¢s book extremely useful as a companion textbook and long-term reference guide." - Sara J. Finney, James Madison University, USA

Barbara M. Byrne is Professor Emeritus in the School of Psychology, University of Ottawa, Canada. An internationally recognized expert in the area of SEM, Dr. ByrneÃ¢â ¬â„¢s research focuses on construct validity issues as they relate to theoretical constructs and measuring instruments. She is

the author of 7 popular introductory books on SEM and has conducted over 100 SEM workshops at conferences, universities, and test publishers around the globe. In addition to the publication of over 95 book chapters and scholarly journal articles, most of which have addressed SEM application issues, she is the author of an important reference book, Measuring Self-concept Across the Lifespan: Issues and Instrumentation. Dr. Byrne is the recipient of three Distinguished Teaching Awards presented by the Canadian Psychological Association, the American Psychological Association (APA), and the APA, Division 5 (Jacob Cohen Award). She is a Fellow in two APA Divisions, is a Foundation member on the International Board of the SELF Research Centre, University of Western Sydney, Australia, and is an elected member of the Society of Multivariate Experimental Psychology.

Having little experience in structural equation modeling, I bought this book as it was recommended by my professor. I have to say this is a must for those who plan on doing any type of latent variable modeling in the Mplus software. The author reviews major SEM topics such as Path Analysis, Factor Analysis, Invariance testing (determining if your structure is the same for different groups), and Latent Growth Curve Modeling for longitudinal (correlated) data. All topics are explained clearly without delving too deep into the statistical aspects. More importantly, she provides examples on how to code these different techniques and most importantly, how to interpret the Mplus output.I highly recommend this book for beginners and for those who need a quick reference in both Mplus and Structural Equation Modeling.

Barbara Byrne continues her tradition of making complex SEM programs accessible to practitioners with her new work on Mplus. She provides concrete examples and datasets to help new users get comfortable with the Mplus interface. As a beginning text, this work is top notch. I keep it near my desk when running analyses in Mplus 7.0.I wish she had also tackled the MONTECARLO command, since it is one of the most powerful and useful components of Mplus, but I understand that the program is simply too complex to address in a single, readable volume. I would certainly suggest that Byrne add a volume 2 to this book in order to address other methodological issues that can be addressed in Mplus.Looking for a readable companion to the Mplus User's Guide? This is a good choice.Looking for advanced applications or in-depth arguments over methodology? Keep looking.

Byrne is a prough at making the complex accessible! A great resource for Mplus and SEM. I love

teaching with her materials.

This is really the only Mplus book out there, but it a great buy. The author discusses all common issues that come up in SEM with Mplus. I am a graduate student and I was really just learning Mplus from websites however the structure of this book is great. It is comprehensive, and really outlines the practical aspects of SEM modelling. I recommend this book for novice->intermediate uses of mplus, or for anyone with SEM experience wanting to learn how to implement in mplus.

I am relatively new to SEM (learned it in the past year) but very new to Mplus. Barbara Byrne does an excellent job of balancing what you need to know and then also extending beyond that scope to keep you progressing in the world of SEM. Absolutely outstanding book! I couldn't put it down (seriously).

As a PhD student investigating SEM, I was a bit dissapointed with the application of this book. It was a bit outdated (related to software), and it was not easy to comprehend. Still, it is not a bad reference book.

I bought this as a reference when I was learning SEM. This book is well-organized and easy to understand. Clear examples with syntax are provided. I think it is especially useful for beginners.

The book is awesome! However, I don't like the kindle version or I'm not used to use kindle... Get a paper version.

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