Structural Equation Modeling With AMOS: Basic Concepts, Applications, and Programming, Second Edition (Multivariate Applications Series)

Barbara M. Byrne

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

- an explanation of the issues addressed
- an illustration of the hypothesized and posthoc models tested
- AMOS input and output with accompanying interpretation and explanation
- The function of the AMOS toolbar icons and their related pull-down menus
- The data and published reference upon which the model was based.

With over 50% new material, highlights of the new edition include:

- All new screen shots featuring Version 17 of the AMOS program
- All data files now available at www.routledge.com/9780805863734
- Application of a multitrait-mulitimethod model, latent growth curve model, and?second-order model based on categorical data
- All applications based on the most commonly used graphical interface
- The automated multi-group approach to testing for equivalence

The book opens with an introduction to the fundamental concepts of SEM *and* the basics of the AMOS program. The next 3 sections present applications that focus on single-group, multiple-group, and multitrait-mutimethod and latent growth curve models. The book concludes with a discussion about non-normal and missing (incomplete) data and two applications capable of addressing these issues.

Intended for researchers, practitioners, and students who use SEM *and* AMOS in their work, this book is an ideal resource for graduate level courses on SEM taught in departments of psychology, education, business, and other social and health sciences and/or as a supplement in courses on applied statistics, multivariate statistics, statistics II, intermediate or advanced statistics, and/or research design. Appropriate for those with limited or no previous exposure to SEM, a prerequisite of basic statistics through regression analysis is recommended.

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