Structural Equation Modeling with Mplus: Basic Concepts, Applications, and Programming (Multivariate Applications Series)

Barbara M. Byrne

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Modeled after Barbara Byrne's other best-selling structural equation modeling (SEM) books, this practical guide reviews the basic concepts and applications of SEM using M*plus* Versions 5 & 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 M*plus* 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 first two chapters introduce the fundamental concepts of SEM and important basics of the M*plus* 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 M*plus*, 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 M*plus*, a prerequisite of basic statistics through regression analysis is recommended.

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