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Mplus Input File Specification and Output File Results; Notes; Addendum; Chapter 5 Testing the Factorial Validity of Scores From a Measuring Instrument: Second-Order Confirmatory Factor Analysis Model; The Hypothesized Model; Analysis of Categorical Data; Mplus Input File Specification and Output File Results; Notes; Chapter 6 Testing the Validity of a Causal Structure: Full Structural Equation Model; The Hypothesized Model; Mplus Input File Specification and Output File Results; Post Hoc Analyses; Notes; Section III: Multiple-Group Analyses Chapter 7 Testing the Factorial Equivalence of a Measuring Instrument: Analysis of Covariance Structures Testing Multigroup Invariance: The General Notion; Testing Multigroup Invariance Across Independent Samples; The Hypothesized Model; Mplus Input File Specification and Output File Results; Notes; Chapter 8 Testing the Equivalence of Latent Factor Means: Analysis of Mean and Covariance Structures; Testing Latent Mean Structures: The Basic Notion; The Hypothesized Model; Testing Multigroup Invariance; Mplus Input File Specification and Output File Results Testing Multigroup Invariance: Other Considerations; Notes; Chapter 9 Testing the Equivalence of a Causal Structure: Full Structural Equation Model; Cross-Validation in Structural Equation Modeling; Testing Invariance Across Calibration and Validation Samples; The Hypothesized Model; Mplus Input File Specification and Output File Results; Notes; Section IV: Other Important Topics; Chapter 10 Testing Evidence of Construct Validity: The Multitrait-Multimethod Model; The General CFA Approach to MTMM Analyses; The Hypothesized Model; Mplus Input File Specification and Output File Results Examining Evidence of Construct Validity at the Matrix Level

## Sommario/riassunto

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 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 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.