

# Detailed Contents

Acknowledgments	viii
About the Author	ix
<b>Chapter 1: Introduction</b>	<b>1</b>
Why Structural Equation Modeling?	2
The Remainder of This Book	4
<b>Chapter 2: Structural Equation Models: Theory and Development</b>	<b>5</b>
The Process of Structural Equation Modeling	6
<i>Model Specification</i>	7
<i>Identification</i>	13
<i>Estimation and Fit</i>	15
Choice of Estimators	16
Sample Size	16
<i>Model Modification</i>	17
<b>Chapter 3: Assessing Model Fit</b>	<b>21</b>
Absolute Fit	22
Comparative Fit	26
Parsimonious Fit	29
<i>Nested Model Comparisons</i>	30
<i>Model Respecification</i>	34
Toward a Strategy for Assessing Model Fit	35
<b>Chapter 4: Using Mplus</b>	<b>37</b>
The Data File	37
The Command File	39
<i>Specify the Data</i>	39
<i>Specify the Analysis</i>	41
<i>Specify the Output</i>	42
Putting It All Together: Some Basic Analyses	42
<i>Regression Analysis</i>	42
<i>The Standardized Solution in Mplus</i>	47
<i>Logistic Regression</i>	47

<b>Chapter 5: Confirmatory Factor Analysis</b>	<b>52</b>
Model Specification	52
<i>From Pictures to Mplus</i>	54
<i>In the Background</i>	55
Identification	56
Estimation	57
Assessment of Fit	69
Model Modification	70
<i>Item Parceling</i>	70
<i>Exploratory Structural Equation Models</i>	71
Sample Results Section	89
<i>Results</i>	90
<i>Exploratory Analysis</i>	90
<b>Chapter 6: Observed Variable Path Analysis</b>	<b>94</b>
Model Specification	94
<i>From Pictures to Mplus</i>	95
<i>Alternative Models</i>	96
Identification	97
Estimation	97
<i>Fit and Model Modification</i>	97
Mediation	106
Using Equality Constraints	115
Multisample Analysis	120
<b>Chapter 7: Latent Variable Path Analysis</b>	<b>129</b>
Model Specification	129
<i>Alternative Model Specifications</i>	130
<i>Model Testing Strategy</i>	130
Sample Results	148
<b>Chapter 8: Longitudinal Analysis</b>	<b>151</b>
Measurement Equivalence Across Time	151
Latent Growth Curves	170
Cross-Lagged Models	176
<b>Chapter 9: Multilevel Modeling</b>	<b>185</b>
Multilevel Models in Mplus	187
Conditional Models	195
Random-Slope Models	211
Multilevel Modeling and Mediation	217
<b>References</b>	<b>225</b>
<b>Index</b>	<b>231</b>