

---

## Contents

Preface .....	V
List of Contributors .....	VII
<b>1 Introduction: Extending the Rasch Model</b>	
<i>Matthias von Davier, Jürgen Rost, Claus H. Carstensen</i> .....	1
<hr/>	
<b>Part I Multivariate and Mixture Rasch Models</b>	
<hr/>	
<b>2 Measurement Models as Narrative Structures</b>	
<i>Robert Mislevy, Chun-Wei Huang</i> .....	15
<b>3 Testing Generalized Rasch Models</b>	
<i>Cees A.W. Glas</i> .....	37
<b>4 The Mixed-Coefficients Multinomial Logit Model: A Generalized Form of the Rasch Model</b>	
<i>Raymond J. Adams, Margaret L. Wu</i> .....	57
<b>5 Loglinear Multivariate and Mixture Rasch Models</b>	
<i>Henk Kelderman</i> .....	77
<b>6 Mixture-Distribution and HYBRID Rasch Models</b>	
<i>Matthias von Davier, Kentaro Yamamoto</i> .....	99
<hr/>	
<b>Part II Generalized Models—Specific Research Questions</b>	
<hr/>	
<b>7 Application of the Saltus Model to Stagelike Data: Some Applications and Current Developments</b>	
<i>Karen Draney, Mark Wilson</i> .....	119

<b>8 Determination of Diagnostic Cut-Points Using Stochastically Ordered Mixed Rasch Models</b> <i>Svend Kreiner</i> .....	131
<b>9 A HYBRID Model for Test Speededness</b> <i>Keith A. Boughton, Kentaro Yamamoto</i> .....	147
<b>10 Multidimensional Three-Mode Rasch Models</b> <i>Claus H. Carstensen, Jürgen Rost</i> .....	157
<b>11 (Almost) Equivalence Between Conditional and Mixture Maximum Likelihood Estimates for Some Models of the Rasch Type</b> <i>Anton K. Formann</i> .....	177
<b>12 Rasch Models for Longitudinal Data</b> <i>Thorsten Meiser</i> .....	191
<b>13 The Interaction Model</b> <i>Shelby J. Haberman</i> .....	201
<b>14 Multilevel Rasch Models</b> <i>Akihito Kamata, Yuk Fai Cheong</i> .....	217

---

**Part III Applications of Multivariate and Mixed Rasch Models**

---

<b>15 Mixed Rasch Models for Measurement in Cognitive Psychology</b> <i>Susan E. Embretson</i> .....	235
<b>16 Detecting Response Styles and Faking in Personality and Organizational Assessments by Mixed Rasch Models</b> <i>Michael Eid, Michael J. Zickar</i> .....	255
<b>17 Application of Multivariate Rasch Models in International Large-Scale Educational Assessments</b> <i>Raymond J. Adams, Margaret L. Wu, Claus H. Carstensen</i> .....	271
<b>18 Studying Development via Item Response Models: A Wide Range of Potential Uses</b> <i>Judith Glück, Christiane Spiel</i> .....	281
<b>19 A Comparison of the Rasch Model and Constrained Item Response Theory Models for Pertinent Psychological Test Data</b> <i>Klaus D. Kubinger, Clemens Draxler</i> .....	293

**20 Latent-Response Rasch Models for Strategy Shifts in Problem-Solving Processes**  
*Carl P. M. Rijkes, Henk Kelderman* ..... 311

**21 Validity and Objectivity in Health-Related Scales: Analysis by Graphical Loglinear Rasch Models**  
*Svend Kreiner, Karl Bang Christensen* ..... 329

**22 Applications of Generalized Rasch Models in the Sport, Exercise, and the Motor Domains**  
*Gershon Tenenbaum, Bernd Strauss, Dirk Büsch* ..... 347

**References** ..... 357

**Author Index** ..... 391