

Table of Contents

Part I: Introduction

- Chapter 1 Introduction 3
Karl Schweizer and Christine DiStefano

Part II: Major Approaches to Test Construction

- Chapter 2 The Use of Standards in Test Development 7
Fons J. R. van de Vijver
- Chapter 3 Using Factor Analysis in Test Construction 26
Deborah L. Bandalos and Jerusha J. Gerstner
- Chapter 4 Item Response Theory as a Framework for Test Construction. 52
Lale Khorramdel and Matthias von Davier

Part III: Item Formats and Test Presentation

- Chapter 5 Item Types, Response Formats, and Consequences for
Statistical Investigations 83
Robert L. Johnson and Grant B. Morgan
- Chapter 6 Adaptive Testing 104
Klaus D. Kubinger
- Chapter 7 Online Assessment 120
Siegbert Reiss and Ulf-Dietrich Reips

Part IV: Estimation of Models

- Chapter 8 Overview of Estimation Methods and Preconditions for Their
Application With Structural Equation Modeling 135
Sara J. Finney, Christine DiStefano, and Jason P. Kopp
- Chapter 9 Examining Fit With Structural Equation Models 166
Christine DiStefano

Part V: Group-Based Analysis

- Chapter 10 Detecting Differential Item Functioning 197
Brian F. French and W. Holmes Finch
- Chapter 11 Assessing Measurement Invariance of Scales Using Multiple-Group
Structural Equation Modeling 218
Marilyn S. Thompson

Part VI: Topics of Special Relevance

Chapter 12 Bifactor Modeling in Construct Validation of Multifactor Tests:
Implications for Understanding Multidimensional Constructs and
Test Interpretation 247
Gary L. Canivez

Chapter 13 Creating Short Forms and Screening Measures 272
Fred Greer and Jin Liu

Chapter 14 Using Multitrait–Multimethod Analyses in Testing for Evidence of
Construct Validity 288
Barbara M. Byrne

Chapter 15 Method Effects in Psychological Assessment Due to Item Wording
and Item Position 308
Karl Schweizer and Stefan Troche

Contributors 323

Subject Index 325