

Table of Contents

- List of Illustrations p. xi
- Acknowledgments p. vii
- List of Contributors p. xix
- Part I Introduction p. 1
- 1 Introduction Luke Plonsky p. 3
- 2 Why Bother Learning Advanced Quantitative Methods in L2 Research? James Dean Brown p. 9
- Part II Enhancing Existing Quantitative Methods p. 21
- 3 Statistical Power, p Values, Descriptive Statistics, and Effect Sizes: A "Back-to-Basics" Approach to Advancing Quantitative Methods in L2 Research Luke Plonsky p. 23
- 4 A Practical Guide to Bootstrapping Descriptive Statistics, Correlations, t Tests, and ANOVAs Geoffrey T. LaFlair and Jesse Egbert and Luke Plonsky p. 46
- 5 Presenting Quantitative Data Visually Thom Hudson p. 78
- 6 Meta-analyzing Second Language Research Luke Plonsky and Frederick L. Oswald p. 106
- Part III Advanced and Multivariate Methods p. 129
- 7 Multiple Regression Eun Hee Jeon p. 131
- 8 Mixed Effects Modeling and Longitudinal Data Analysis Ian Cunnings and Ian Finlayson p. 159
- 9 Exploratory Factor Analysis and Principal Components Analysis Shawn Loewen and Talip Gonulal p. 182
- 10 Structural Equation Modeling in L2 Research Rob Schoonen p. 213
- 11 Cluster Analysis Shelley Staples and Douglas Biber p. 243
- 12 Rasch Analysis Ute Knock and Tim McNamara p. 275
- 13 Discriminant Analysis John M. Norris p. 305
- 14 Bayesian Informative Hypothesis Testing Beth Mackey and Steven J. Ross p. 329
- Index p. 347