

Multilevel Models:Applications Using SAS



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Language: English. Pub. Date: 2009. Multilevel Models: Applications Using SAS is written in nontechnical terms. focuses on the methods and applications of various multilevel models. including liner multilevel models. multilevel logistic regression models. multilevel Poisson regression models. multilevel negative binomial models. as well as some cutting-edge applications. such as multilevel zero-inflated Poisson (ZIP) model. random effect zero-inflated negative binomial model (RE-ZINB). mixed-effect mixed-distribution models. bootstrapping multilevel models. and group-based trajectory models. Readers will learn to build and apply multilevel models for hierarchically structured cross-sectional data and longitudinal data using the internationally distributed software package Statistics Analysis System (SAS). Detailed SAS syntax and output are provided for model applications. providing students. research scientists and data analysts with ready templates for their applications. Contents: Chapter 1 Introduction 1.1 Conceptual framework of multilevel modeling 1.2 Hierarchically structured data 1.3 Variables in multilevel data 1.4 Analytical problems with multilevel data 1.5 Advantages and limitations of multilevel modeling 1.6 Computer software for multilevel modeling Chapter 2 Basics of Linear Multilevel Models 2.1 Intraclass correlation coefficient (ICC) 2.2 Formulation of two-level multilevel models 2.3 Model assumptions 2.4 Fixed and random regression coefficients 2.5 Cross-level interactions 2.6 Measurement centering 2.7 Model estimation 2.8 Model fit. hypothesis testing. and model comparisons 2.8.1 Model fit 2.8.2 Hypothesis testing 2.8.3 Model comparisons 2.9 Explained level-1 and level-2 variances 2.10 Steps for building multilevel models 2.11 Higher-level multilevel models Chapter 3 Application of Two-level Linear Multilevel Models 3.1 Data 3.2 Empty model 3.3 Predicting between-group variation 3.4 Predicting within-group variation 3.5 Testing random level-1 slopes 3.6 Across-level interactions 3.7 Other issues in model development Chapter 4 Application of Multilevel Modeling to Longitudinal Data 4.1 Features of longitudinal data 4.2 Limitations of traditional approaches for modeling longitudinal data 4.3 Advantages of multilevel modeling for longitudinal data 4.4 Formulation of growth models 4.5 Data description and manipulation 4.6 Linear growth models 4.6.1 The shape of average...



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