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63. COPY. ABSTRACT. This is the first book to demonstrate how to use the multilevel and longitudinal modeling techniques available in IBM SPSS Version 18. The authors tap the power of SPSS ' s Mixed Models routine to provide an elegant and accessible approach to these models.

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The core longitudinal models and their extensions are presented within a multilevel modeling framework, paying careful attention to the modeling concerns that are unique to longitudinal data....

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Rabe-Hesketh and Anders Skrondal,

looks specifically at Stata's

treatment of generalized linear mixed

models, also known as multilevel or

hierarchical models. These models are

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“mixed” because they allow fixed and random effects, and they are “generalized” because they are appropriate for continuous Gaussian responses as well as binary, count, and other types of limited dependent variables.

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Multilevel Models for Longitudinal
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Multilevel modeling offers a unique

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framework for analyzing longitudinal data because. It tolerates missing waves of data; It tolerates differently spaced waves of data from different subjects; It accounts for correlations of observations across time; It allows you to study changes over time, such as changes in elevation and slope.

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Multilevel modeling examined the
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depressive symptoms longitudinally.
Results: NAI and FHS were both
positively associated with depressive

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Multilevel and longitudinal modeling
with IBM SPSS

Multilevel modeling is complicated to grasp, and turning the explanatory model into an actual analysis is a key bridge. Unfortunately, that seems to

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be where this book falls short. It goes over and over principles that, once you understand them, become tedious to wade through.

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One application of multilevel

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modeling (MLM) is the analysis of repeated measures data. Multilevel modeling for repeated measures data is most often discussed in the context of modeling change over time (i.e. growth curve modeling for longitudinal designs); however, it may also be used for repeated measures

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data in which time is not a factor.

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This book demonstrates how to use
multilevel and longitudinal modeling
techniques available in the IBM SPSS
mixed-effects program (MIXED).

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Annotated screen shots provide readers with a step-by-step understanding of each technique and navigating the program. Readers learn how to set up, run, and interpret a variety of models. Diagnostic tools, data management issues, and related graphics are introduced throughout.

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Annotated syntax is also available for those who prefer this approach. Extended examples illustrate the logic of model development to show readers the rationale of the research questions and the steps around which the analyses are structured. The data used in the text and syntax examples

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are available at www.routledge.com/9780415817110. Highlights of the new edition include: Updated throughout to reflect IBM SPSS Version 21. Further coverage of growth trajectories, coding time-related variables, covariance structures, individual change and

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Longitudinal experimental designs (Ch.5). Extended discussion of other types of research designs for examining change (e.g., regression discontinuity, quasi-experimental) over time (Ch.6). New examples specifying multiple latent constructs and parallel growth processes (Ch. 7).

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Discussion of alternatives for dealing with missing data and the use of sample weights within multilevel data structures (Ch.1). The book opens with the conceptual and methodological issues associated with multilevel and longitudinal modeling, followed by a discussion of SPSS data

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management techniques which facilitate working with multilevel, longitudinal, and cross-classified data sets. Chapters 3 and 4 introduce the basics of multilevel modeling: developing a multilevel model, interpreting output, and troubleshooting common programming and

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modeling problems. Models for investigating individual and organizational change are presented in chapters 5 and 6, followed by models with multivariate outcomes in chapter 7. Chapter 8 provides an illustration of multilevel models with cross-classified data structures. The

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book concludes with ways to expand on the various multilevel and longitudinal modeling techniques and issues when conducting multilevel analyses. Ideal as a supplementary text for graduate courses on multilevel and longitudinal modeling, multivariate statistics, and research

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design taught in education, psychology, business, and sociology, this book 's practical approach also appeals to researchers in these fields. The book provides an excellent supplement to Heck & Thomas ' s An Introduction to Multilevel Modeling Techniques, 2nd Edition; however, it

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can also be used with any multilevel
and/or longitudinal modeling book or
as a stand-alone text.

Volume II is devoted to generalized
linear mixed models for binary,
categorical, count, and survival
outcomes. The second volume has

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seven chapters also organized in four parts. The first three parts in volume II cover models for categorical responses, including binary, ordinal, and nominal (a new chapter); models for count data; and models for survival data, including discrete-time and continuous-time (a new chapter)

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With IBM SPSS. The final part in volume II describes models with nested and crossed-random effects with an emphasis on binary outcomes.

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This book focuses on the practical issues and approaches to handling longitudinal and multilevel data. All

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data sets and the corresponding command files are available via the Web. The working examples are available in the four major SEM packages--LISREL, EQS, MX, and AMOS--and two Multi-level packages--HLM and MLn. All equations and figural conventions are

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standardized across each contribution. The material is accessible to practicing researchers and students. Users can compare and contrast various analytic approaches to longitudinal and multiple-group data including SEM, Multi-level, LTA, and standard GLM techniques. Ideal for

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graduate students and practicing
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Edition provides the reader with a
helpful guide to conducting multilevel

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data modeling using the R software environment. After reviewing standard linear models, the authors present the basics of multilevel models and explain how to fit these models using R. They then show how to employ multilevel modeling with longitudinal data and demonstrate the

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valuable graphical options in R. The book also describes models for categorical dependent variables in both single level and multilevel data. New in the Second Edition: Features the use of lmer (instead of lme) and including the most up to date approaches for obtaining confidence

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intervals for the model parameters.

Discusses measures of R^2 (the squared multiple correlation coefficient) and overall model fit. Adds a chapter on nonparametric and robust approaches to estimating multilevel models, including rank based, heavy tailed distributions, and

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the multilevel lasso. Includes a new chapter on multivariate multilevel models. Presents new sections on micro-macro models and multilevel generalized additive models. This thoroughly updated revision gives the reader state-of-the-art tools to launch their own investigations in multilevel

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modeling and gain insight into their research. About the Authors: W. Ronald H. Thomas Scott L. Holmes Finch is the George and Frances Ball Distinguished Professor of Educational Psychology at Ball State University. Jocelyn E. Bolin is a Professor in the Department of Educational Psychology at Ball State

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University. Ken Kelley is the Edward F. Sorin Society Professor of IT, Analytics and Operations and the Associate Dean for Faculty and Research for the Mendoza College of Business at the University of Notre Dame.

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This book provides a broad overview of basic multilevel modeling issues and illustrates techniques building analyses around several organizational data sets. Although the focus is primarily on educational and organizational settings, the examples will help the reader discover other

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applications for these techniques. Two basic classes of multilevel models are developed: multilevel regression models and multilevel models for covariance structures--are used to develop the rationale behind these models and provide an introduction to the design and analysis of research

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studies using two multilevel analytic techniques--hierarchical linear modeling and structural equation modeling.

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Volume I is devoted to continuous Gaussian linear mixed models and has nine chapters. The chapters are

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organized in four parts. The first part provides a review of the methods of linear regression. The second part provides an in-depth coverage of the two-level models, the simplest extensions of a linear regression model. The mixed-model foundation and the in-depth coverage of the

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mixed-model principles provided in volume I for continuous outcomes, make it straightforward to transition to generalized linear mixed models for noncontinuous outcomes described in volume II.

This book is designed primarily for

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upper level undergraduate and graduate level students taking a course in multilevel modelling and/or statistical modelling with a large multilevel modelling component. The focus is on presenting the theory and practice of major multilevel modelling techniques in a variety of contexts,

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using Mplus as the software tool, and demonstrating the various functions available for these analyses in Mplus, which is widely used by researchers in various fields, including most of the social sciences. In particular, Mplus offers users a wide array of tools for latent variable modelling, including

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for multilevel data. By Heck

Ronald H Thomas Scott L

This book unifies and extends latent
variable models, including multilevel

or generalized linear mixed models,

longitudinal or panel models, item

response or factor models, latent class

or finite mixture models, and

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structural equation models. Following a gentle introduction to latent variable modeling, the authors clearly explain and contrast a wi

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Multilevel Modeling is a concise, practical guide to building models for multilevel and longitudinal data.

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Author Douglas A. Luke begins by providing a rationale for multilevel models; outlines the basic approach to estimating and evaluating a two-level model; discusses the major extensions to mixed-effects models; and provides advice for where to go for instruction in more advanced techniques. Rich

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with examples, the Second Edition expands coverage of longitudinal methods, diagnostic procedures, models of counts (Poisson), power analysis, cross-classified models, and adds a new section added on presenting modeling results. A website for the book includes the data

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and the statistical code (both R and Stata) used for all of the presented analyses.

This is a book about applied multilevel and longitudinal modeling. Other terms for multilevel models include hierarchical models, random-effects or

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random-coefficient models, mixed-effects models, or simply mixed models. Longitudinal data are also referred to as panel data, repeated measures, or cross-sectional time series. A popular type of multilevel model for longitudinal data is the growth-curve model. Our emphasis is

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on explaining the models and their assumptions, applying the methods to real data, and interpreting results.

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