



# Multilevel Analysis: Techniques and Applications, Second Edition (Quantitative Methodology Series)

By Joop J. Hox, Mirjam Moerbeek, Rens van de Schoot

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**Multilevel Analysis: Techniques and Applications, Second Edition (Quantitative Methodology Series)** By Joop J. Hox, Mirjam Moerbeek, Rens van de Schoot

This practical introduction helps readers apply multilevel techniques to their research. Noted as an accessible introduction, the book also includes advanced extensions, making it useful as both an introduction and as a reference to students, researchers, and methodologists. Basic models and examples are discussed in non-technical terms with an emphasis on understanding the methodological and statistical issues involved in using these models. The estimation and interpretation of multilevel models is demonstrated using realistic examples from various disciplines. For example, readers will find data sets on stress in hospitals, GPA scores, survey responses, street safety, epilepsy, divorce, and sociometric scores, to name a few. The data sets are available on the website in SPSS, HLM, MLwiN, LISREL and/or Mplus files. Readers are introduced to both the multilevel regression model and multilevel structural models.

Highlights of the second edition include:

- Two new chapters?one on multilevel models for ordinal and count data (Ch. 7) and another on multilevel survival analysis (Ch. 8).
- Thoroughly updated chapters on multilevel structural equation modeling that reflect the enormous technical progress of the last few years.
- The addition of some simpler examples to help the novice, whilst the more complex examples that combine more than one problem have been retained.
- A new section on multivariate meta-analysis (Ch. 11).
- Expanded discussions of covariance structures across time and analyzing longitudinal data where no trend is expected.
- Expanded chapter on the logistic model for dichotomous data and proportions with new estimation methods.
- An updated website at <http://www.joophox.net/> with data sets for all the text examples and up-to-date screen shots and PowerPoint slides for instructors.

Ideal for introductory courses on multilevel modeling and/or ones that introduce

this topic in some detail taught in a variety of disciplines including: psychology, education, sociology, the health sciences, and business. The advanced extensions also make this a favorite resource for researchers and methodologists in these disciplines. A basic understanding of ANOVA and multiple regression is assumed. The section on multilevel structural equation models assumes a basic understanding of SEM.

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### Review

*"The book describes extensive knowledge of multilevel analysis of experiments. The author presents a very detailed description of multivariate techniques, shows examples where these methods can be used, and gives the interpretation of results. ... This volume is a guide book of multilevel methods for the researchers who want to understand and use the multilevel techniques in practice. It is written in a clear and accessible manner."* - **Anna Szczepańska, Poznań University of Life Sciences, Poland, in International Statistical Review**

*"Dr. Hox is a master at presenting sophisticated statistical ideas and models in very pragmatic ways... There have been many developments in the area of multilevel structural equation modeling and [Hox's] book is the only multilevel one that covers this important area...The additional chapters ... make the book more ... appealing.... I would definitely use Hox's book...[and] recommend it to my colleagues."* - **Donald Hedeker, University of Illinois at Chicago, USA**

*"The second edition offers a simplistic yet in-depth coverage of difficult material. It follows closely the style and approach of the highly successful first edition. The [book] also incorporates many of the latest developments that have emerged over the past few years in the field."* - **George Marcoulides, University of California – Riverside, Quantitative Methodology Series Editor**

*"This book continues to be one of the most readable texts on multilevel analysis. Hox does a masterful job of making the complex palatable. This book is a great addition for the practitioner and methodologist alike."* - **J. Kyle Roberts, Southern Methodist University, USA**

*"The writing style is unquestionably a strength of this book particularly when compared to competing books.... Without question I would adopt the revised version and recommend it to others. The... changes... strengthen an already effective book."* - **Dick Carpenter, University of Colorado, Colorado Springs, USA**

### About the Author

**Joop J. Hox** is Professor and Chair of Social Science Methodology at Utrecht University in the Netherlands. A Fellow of the Royal Statistical Society and a founding member of the European Association of Methodology, his recent publications focus on survey non-response, interviewer effects, survey data quality, missing data, and multilevel analysis of regression and structural equation models. He is recognized as an expert in multilevel analysis and as a consultant he has been involved with applying multilevel models in a diversity of fields. He has a reputation for being able to explain technically complicated matters in an accessible manner.

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