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Linear Mixed Models In Practice: A SAS-Oriented Approach (Lecture Notes In Statistics)

Lecture Notes in Statistics 126

Geert Verbeke
Geert Molenberghs (Editors)

Linear Mixed Models in Practice

A SAS-Oriented Approach

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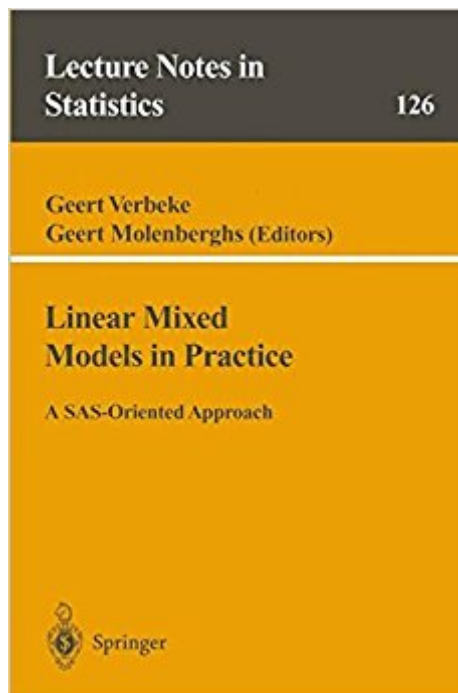
Synopsis

A comprehensive treatment of linear mixed models, focusing on examples from designed experiments and longitudinal studies. Aimed at applied statisticians and biomedical researchers in industry, public health organisations, contract research organisations, and academia, this book is explanatory rather than mathematical rigorous. Although most analyses were done with the MIXED procedure of the SAS software package, and many of its features are clearly elucidated, considerable effort was put into presenting the data analyses in a software-independent fashion.

Book Information

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Customer Reviews

Geert Verbeke is Assistant Professor at the Biostatistical Centre for Clinical Trials of the Katholieke Universiteit Leuven in Belgium. He received the B.S. degree in mathematics (1989) from the Katholieke Universiteit Leuven, the M.S. in biostatistics (1992) from the Limburgs Universitair Centrum, and earned a PhD in biostatistics (1995) from the Katholieke Universiteit Leuven. Dr. Verbeke wrote his dissertation, as well as a number of methodological articles, on various aspects on linear mixed models for longitudinal data analysis. He has held visiting positions at the Gerontology Researh Center and the Johns Hopkins University (Baltimore, MD). Geert Molenberghs is Assistant Professor of Biostatistics at the Limburgs Universitair Centrum in Belgium. He received the B.S. degree in mathematics (1988) and a PhD in biostatistics (1993) from the Universiteit Antwerpen. Dr. Molenberghs has published methodological work on the analysis of non-response,

and non-compliance in clinical trials.

I agree with the brief comments of the other reviewer. However, these authors have updated the material in a book just published in 2000 "Linear Mixed Models for Longitudinal Data". The approach is the same in both books but the new one contains a lot of new advances that have occurred over the last three years. If you want a thorough account with the latest developments buy the other book. I have given a thorough review of the other book for . On the other hand if you just want to learn longitudinal data analysis this monograph will work for you and may be less expensive since it is in paperback while the other book is only currently in hardcover. Both books illustrate examples using SAS Proc Mixed.

Linear mixed model has been widely used in biomedical reserach, such as longitudinal observational studies and clinical trials. However, the model is theoretically complicated, and is hard to use it. This book not only covers statistical methodologies related to this model, but also gives excellent examples which can teach the readers how to use it.

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