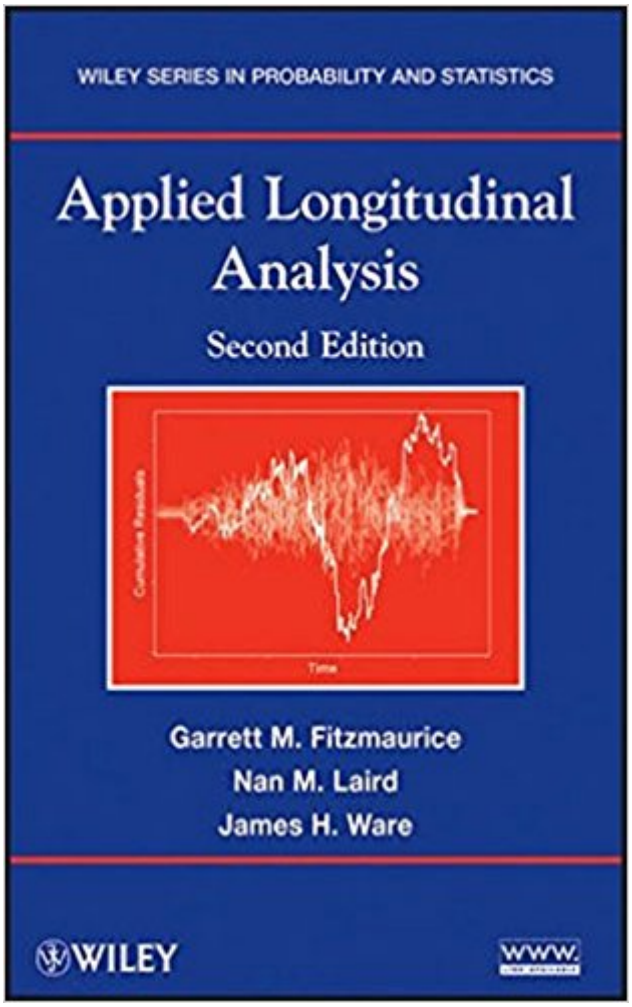
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Applied Longitudinal Analysis



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Synopsis

Praise for the First Edition ". . . [this book] should be on the shelf of everyone interested in . . . longitudinal data analysis." Ã¢â ¬â •Journal of the American Statistical Association Features newly developed topics and applications of the analysis of longitudinal data Applied Longitudinal Analysis, Second Edition presents modern methods for analyzing data from longitudinal studies and now features the latest state-of-the-art techniques. The book emphasizes practical, rather than theoretical, aspects of methods for the analysis of diverse types of longitudinal data that can be applied across various fields of study, from the health and medical sciences to the social and behavioral sciences. The authors incorporate their extensive academic and research experience along with various updates that have been made in response to reader feedback. The Second Edition features six newly added chapters that explore topics currently evolving in the field, including: Fixed effects and mixed effects models Marginal models and generalized estimating equations Approximate methods for generalized linear mixed effects models Multiple imputation and inverse probability weighted methods Smoothing methods for longitudinal data Sample size and power Each chapter presents methods in the setting of applications to data sets drawn from the health sciences. New problem sets have been added to many chapters, and a related website features sample programs and computer output using SAS, Stata, and R, as well as data sets and supplemental slides to facilitate a complete understanding of the material. With its strong emphasis on multidisciplinary applications and the interpretation of results, Applied Longitudinal Analysis, Second Edition is an excellent book for courses on statistics in the health and medical sciences at the upper-undergraduate and graduate levels. The book also serves as a valuable reference for researchers and professionals in the medical, public health, and pharmaceutical fields as well as those in social and behavioral sciences who would like to learn more about analyzing longitudinal data.

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Customer Reviews

Ã¢â ¬Å“The text is well-organized and clearly written. It is accessible to researchers with varying levels of statistical expertise, with plenty of data examples that make reading and learning enjoyable. I recommend it to biostatisticians as well as to clinicians and other health researchers who may not have much statistical training . . . Applied Longitudinal Analysisis generally my first recommendation when asked for a valuable resource in the field due to the breadth of topics covered and its practical utility.Ã¢â ¬Â•Ã Â (Journal of Biopharmaceutical Statistics, 1 January 2013) Ã¢â ¬Å“The book also serves as a valuable reference for researchers and professionals in the medical, public health, and pharmaceutical fields, as well as those in social and behavioral sciences who would like to learn more about analysing longitudinal data.Ã¢â ¬Â• (Zentralblatt MATH, 2012) "This book provides very broad coverage of modern methods for longitudinal data analysis from an applied perspective ... I highly recommend this book to statisticians and quantitative researchers who encounter longitudinal and/or clustered data. In addition, I think the book would be an excellent choice as the primary textbook in an applied longitudinal data course." (Journal of Biopharmaceutical Statistics, 2013) Ã Â

Praise for the First Edition ". . . [this book] should be on the shelf of everyone interested in . . . longitudinal data analysis." Ã¢â ¬â •Journal of the American Statistical Association Features newly developed topics and applications of the analysis of longitudinal data Applied Longitudinal Analysis, Second Edition presents modern methods for analyzing data from longitudinal studies and now features the latest state-of-the-art techniques. The book emphasizes practical, rather than theoretical, aspects of methods for the analysis of diverse types of longitudinal data that can be applied across various fields of study, from the health and medical sciences to the social and behavioral sciences. The authors incorporate their extensive academic and research experience along with various updates that have been made in response to reader feedback. The Second Edition features six newly added chapters that explore topics currently evolving in the field, including: Fixed effects and mixed effects models Marginal models and generalized estimating

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Not my favorite book. Too wordy and repetitive. Presentation not clear and not concise. In many a places it is a pain to guess what the authors really mean.

Detailed enough, not mathematically overwhelming. Recommended for the ones who have an understanding of ANOVA and linear regression. Also, some basic calculus (mostly derivatives) knowledge is helpful, but not crucial to grasp the materials.

Used in a longitudinal analysis course, and I have to say this book presents the concepts in clear and structured manners. Very useful for learning the material alongside lectures, and could likely even be used alone to help improve skill and understanding of longitudinal analysis. I would highly recommend!

It can be hard to find stats textbooks that strike the right balance between being clearly written and technically concise. This is one such book. Based on my personal experience, it has been very readable and accessible. The language is precise but not overloaded with jargon.I recommend it.

This is the best introductory level book for this topic. Nobody can resist to reading it.

I’m a Masters Biostatistics student and found this book easily understandable with helpful SAS codes.

Good book for statistician

The authors have done a masterful job. They've created a book that is accessable to those without a strong mathematics background, but still interesting to those with such a background. The scope is broad, yet one does not feel "shortchanged" on any topic covered. They cover both linear and generalized linear models, with and without mixed effects. Part IV contains what the authors call advanced topics such as missing data and multilevel models and their lucidity, given such brief treatment is astonishing.

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