

Chapter 222

Mixed Models - Repeated Measures

Introduction

This specialized Mixed Models procedure analyzes results from repeated measures designs in which the outcome (response) is continuous and measured at fixed time points. The procedure uses the standard mixed model calculation engine to perform all calculations. However, the user-interface has been simplified to make specifying the repeated measures analysis much easier.

These designs that can be analyzed by this procedure include

- Split-plot designs
- Repeated-measures designs
- Cross-over designs
- Designs with covariates

This chapter gives an abbreviated coverage of mixed models in general. We rely on the *Mixed Models - General* chapter for a comprehensive overview. We encourage you to look there for details of mixed models.

Types of Factors

It is important to understand between-subject factors and within-subject factors.

Between-Subject Factors

Each subject is assigned to only one category of a each between-subject factor. For example, if 12 subjects are randomly assigned to three treatment groups (four subjects per group), treatment is a between-subject factor.

Within-Subject Factors

Within-subject factors are those in which the subject's response is measured at several time points.

Within-subject factors are those factors for which multiple levels of the factor are measured on the same subject. If each subject is measured at the low, medium, and high level of the treatment, treatment is a within-subject factor.

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JG Myers



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A Quantitative Approach to Commercial Damages Mark G. Filler, James A. DiGabriele, 2012-04-09 How to guidance for measuring lost profits due to business interruption damages A Quantitative Approach to Commercial Damages explains the complicated process of measuring business interruption damages whether they are losses are from natural or man made disasters or whether the performance of one company adversely affects the performance of another Using a methodology built around case studies integrated with solution tools this book is presented step by step from the analysis damages perspective to aid in preparing a damage claim Over 250 screen shots are included and key cell formulas that show how to construct a formula and lay it out on the spreadsheet Includes Excel spreadsheet applications and key cell formulas for those who wish to construct their own spreadsheets Offers a step by step approach to computing damages using case studies and over 250 screen shots Often in the course of business a firm will be damaged by the actions of another individual or company such as a fire that shuts down a restaurant for two months Often this results in the filing of a business interruption claim Discover how to measure business losses with the proven guidance found in A Quantitative Approach to Commercial Damages

Medical Biostatistics Abhaya Indrayan, 2008-03-10 Emphasizing statistical concepts used in medicine the interpretation of methods and applications Medical Biostatistics Second Edition shows how biostatistical methods are important tools in managing uncertainties in medicine and the health sciences With coverage ranging from elementary topics such as mean and standard deviation to adv

A Multidisciplinary Approach to Motor Learning and Sensorimotor Adaptation Rachael D Seidler, Sean Kevin Meehan, 2015-04-22 Nothing provided

AMSTAT News, 2005

Encyclopedia of Quantitative Risk Analysis and Assessment: R-Z Edward L. Melnick, Brian Everitt, 2008

Computer-assisted Research Design and Analysis Barbara G. Tabachnick, Linda S. Fidell, 2001 Designed for upper level undergraduate and graduate level courses in research design and analysis in departments of psychology education sociology anthropology and other social and behavioral sciences A comprehensive review of analyses of basic and complex ANOVA models through traditional approaches and multiple regression integrating the most recent releases of MINITAB SAS SPSS and SYSTAT In all chapters of this comprehensive text both the basic model and its numerous complexities are presented along with discussions of effect size relative efficiency and comparisons illustrated by numerous examples For each major model the text provides tests for assumptions a hand worked example and an example with real data including a write up of the results using APA format The text also provides data sets syntax and output for accomplishing numerous additional analyses through recent releases of MINITAB SAS SPSS and SYSTAT often neglected in software manuals TECHNOLOGY ADVANTAGE Inclusion of syntax and output from MINITAB SAS SPSS and SYSTAT allows students to concentrate on the research question rather than on the specifics of the software program and provides

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results and interpretation New conceptual and theoretical developments in mixed effects modeling have been included and there is a new chapter on power analysis for mixed effects models Features Dedicating an entire chapter to the key theories underlying LMMs for clustered longitudinal and repeated measures data Provides descriptions explanations and examples of software code necessary to fit LMMs in SAS SPSS R Stata and HLM Contains detailed tables of estimates and results allowing for easy comparisons across software procedures Presents step by step analyses of real world data sets that arise from a variety of research settings and study designs including hypothesis testing interpretation of results and model diagnostics Integrates software code in each chapter to compare the relative advantages and disadvantages of each package Supplemented by a website with software code datasets additional documents and updates Ideal for anyone who uses software for statistical modeling this book eliminates the need to read multiple software specific texts by covering the most popular software programs for fitting LMMs in one handy guide The authors illustrate the models and methods through real world examples that enable comparisons of model fitting options and results across the software procedures

Linear Mixed Models Brady T. West, Kathleen B. Welch, Andrzej T. Galecki, 2022 Highly recommended by JASA Technometrics and other leading statistical journals the first two editions of this bestseller showed how to easily perform complex linear mixed model LMM analyses via a variety of software programs *Linear Mixed Models A Practical Guide Using Statistical Software* Third Edition continues to lead readers step by step through the process of fitting LMMs The third edition provides a comprehensive update of the available tools for fitting linear mixed effects models in the newest versions of SAS SPSS R Stata and HLM All examples have been updated with a focus on new tools for visualization of results and interpretation New conceptual and theoretical developments in mixed effects modeling have been included and there is a new chapter on power analysis for mixed effects models Features Dedicating an entire chapter to the key theories underlying LMMs for clustered longitudinal and repeated measures data Provides descriptions explanations and examples of software code necessary to fit LMMs in SAS SPSS R Stata and HLM Contains detailed tables of estimates and results allowing for easy comparisons across software procedures Presents step by step analyses of real world data sets that arise from a variety of research settings and study designs including hypothesis testing interpretation of results and model diagnostics Integrates software code in each chapter to compare the relative advantages and disadvantages of each package Supplemented by a website with software code datasets additional documents and updates Ideal for anyone who uses software for statistical modeling this book eliminates the need to read multiple software specific texts by covering the most popular software programs for fitting LMMs in one handy guide The authors illustrate the models and methods through real world examples that enable comparisons of model fitting options and results across the software procedures

Linear and Nonlinear Models for the Analysis of Repeated Measurements Edward Vonesh, Vernon M Chinchilli, 2020-07-02 Integrates the latest theory methodology and applications related to the design and analysis of repeated measurement The text covers a broad range of topics including

the analysis of repeated measures design general crossover designs and linear and nonlinear regression models It also contains a 3 5 IBM compatible disk with software to implement immediately the techniques Linear Mixed Models Brady T. West, Kathleen B. Welch, Andrzej T Galecki, 2014-07-17 Highly recommended by JASA Technometrics and other journals the first edition of this bestseller showed how to easily perform complex linear mixed model LMM analyses via a variety of software programs Linear Mixed Models A Practical Guide Using Statistical Software Second Edition continues to lead readers step by step through the process of

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