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## Solutions for Statistics of Financial Markets

### Features

- Ideal basis for lectures, seminars and crash courses on statistical applications in finance
- Interactive approach using statistical software

### Fields of interest

Statistics for Business/Economics/Mathematical Finance/Insurance; Quantitative Finance; Finance /Banking

### Target groups

Graduate

### Type of publication

Graduate/Advanced undergraduate textbook

L. M. Friedman, National Heart, Lung, and Blood Institute, Bethesda, MD, USA; C. D. Furberg, Wake Forest University, School of Medicine, Winston-Salem, NC, USA; D. L. DeMets, University of Wisconsin, Madison, WI, USA

## Fundamentals of Clinical Trials

This is the fourth edition of a very successful textbook on clinical trials methodology, written by three recognized experts who have long and extensive experience in all areas of clinical trials. Most chapters have been revised considerably from the third edition. A chapter on ethics has been added and topics such as noninferiority and adaptive designs now receive considerable discussion. There is much new material on adverse events, adherence, data monitoring, and issues in analysis.

### Features

- Numerous examples of published clinical trials from a variety of medical disciplines are used to meaningfully illustrate the fundamentals
- Technical design issues such as sample size are considered but the technical details are kept to a minimum through the use of graphs and tables
- The authors are active researchers leading clinical trials in broad areas, including cardiology, cancer, ophthalmology, diabetes, osteoporosis, AIDS, and women's health

### From the contents

Introduction to clinical trials.- Ethical issues.- What is the question?- Study population.- Basic study design.- The randomization process.- Blindness.- Sample size.- Baseline assessment.- Recruitment of study participants.- Data collection and quality control.- Assessing and reporting adverse effects.- Assessment of health-related quality of life.- Participant adherence.- Survival analysis.- Monitoring response variables.- Issues in data analysis.- Closeout.

### Fields of interest

Statistics for Life Sciences, Medicine, Health Sciences; Public Health/Gesundheitswesen; Epidemiology

### Target groups

Professional/practitioner

### Type of publication

Graduate/Advanced undergraduate textbook

K. van Montfort, VU University Amsterdam, The Netherlands; J. H. Oud, Radboud University Nijmegen, The Netherlands; A. Satorra, Pompeu Fabra University, Barcelona, Spain (Eds.)

## Longitudinal Research with Latent Variables

This book combines longitudinal research and latent variable research, i.e. it explains how longitudinal studies with objectives formulated in terms of latent variables should be carried out, with an emphasis on detailing how the methods are applied. Because longitudinal research with latent variables currently utilizes different approaches with different histories, different types of research questions, and different computer programs to perform the analysis, the book is divided into nine chapters. Starting from (a) some background information about the specific approach (a short history and the main publications), each chapter then (b) describes the type of research questions the approach is able to answer, (c) provides statistical and mathematical explanations of the models used in the data analysis, (d) discusses the input and output of the programs used, and (e) provides one or more examples with typical data sets, allowing the readers to apply the programs themselves.

### Features

- The main purpose of the book is to give a state of the art explanation of longitudinal research methodology with latent variables and to show how this methodology is implemented in practice with current state of art software and real datasets

### From the contents

A. Hagnaars: Loglinear Latent Variable Models for Longitudinal Categorical Data.- Geert Verbeke, Geert Molenberghs, and Dimitris Rizopoulos: Random Effects Models for Longitudinal Data.- Nicholas T. Longford: Multivariate and Multilevel Longitudinal Analysis.- Jeroen K. Vermunt: Longitudinal Research Using Mixture Models.

### Fields of interest

Statistical Theory and Methods

### Target groups

Research

### Type of publication

Contributed volume



Mathematics

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Mathematics

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Mathematics

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