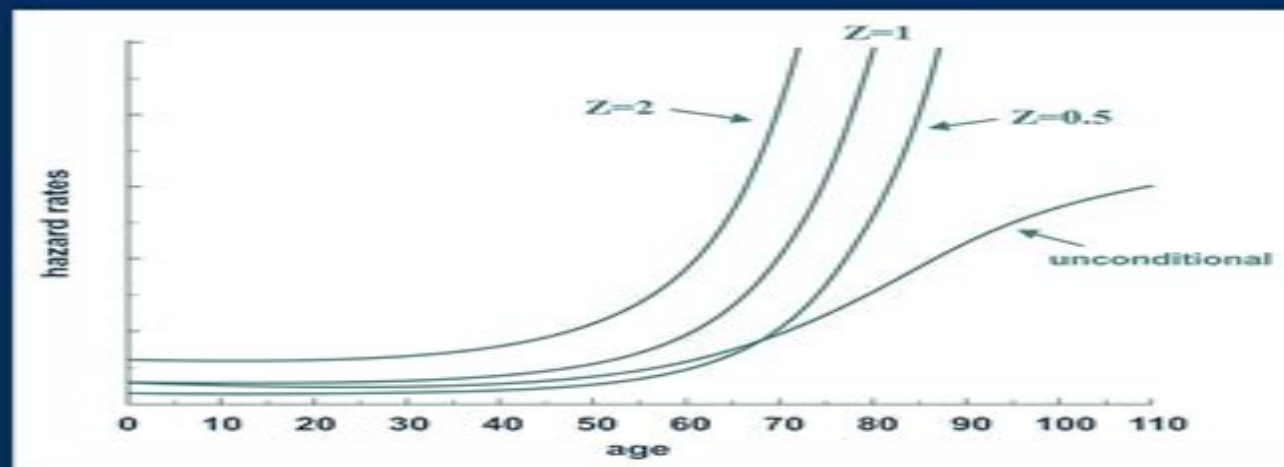


Chapman & Hall/CRC Biostatistics Series

# Frailty Models in Survival Analysis



**Andreas Wienke**



CRC Press  
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A CHAPMAN & HALL BOOK

# Frailty Models In Survival Analysis Chapman And Hall Or Crc Biostatistics Series

**Mohamed M. Shoukri**



## **Frailty Models In Survival Analysis Chapman And Hall Or Crc Biostatistics Series:**

Frailty Models in Survival Analysis Andreas Wienke, 2010-07-26 The concept of frailty offers a convenient way to introduce unobserved heterogeneity and associations into models for survival data In its simplest form frailty is an unobserved random proportionality factor that modifies the hazard function of an individual or a group of related individuals Frailty Models in Survival Analysis presents a comprehensive overview of the fundamental approaches in the area of frailty models The book extensively explores how univariate frailty models can represent unobserved heterogeneity It also emphasizes correlated frailty models as extensions of univariate and shared frailty models The author analyzes similarities and differences between frailty and copula models discusses problems related to frailty models such as tests for homogeneity and describes parametric and semiparametric models using both frequentist and Bayesian approaches He also shows how to apply the models to real data using the statistical packages of R SAS and Stata The appendix provides the technical mathematical results used throughout Written in nontechnical terms accessible to nonspecialists this book explains the basic ideas in frailty modeling and statistical techniques with a focus on real world data application and interpretation of the results By applying several models to the same data it allows for the comparison of their advantages and limitations under varying model assumptions The book also employs simulations to analyze the finite sample size performance of the models

Exploring Studbooks for Wildlife Management and Conservation F.P.G. Princée, 2016-12-20 Many endangered species of wild animals are managed in captivity through studbooks In this book these data rich resources are mined in innovative integrated and statistically tested ways to maximise information gain for conservation practice whether for captive or released reintroduced or managed wild populations This book is thus an important tool for all species managers and for students and researchers in small population biology and wildlife conservation The book's studbook analyses are grouped in three interrelated sections natural history demography and genetics Statistical tests to determine the significance of results or to compare results between subgroups are undertaken throughout Real studbooks of a variety of species e.g. cranes wolverines blesbok illustrate the practical applications and interpretations of the analyses and statistics The natural history section presents analyses to determine baseline species information such as litter size inter birth interval longevity and seasonality Demography covers census style analyses age class based life tables comparative survival analyses and population projections Solutions for dealing with small sample sizes are included Inbreeding depression and unconscious selection form the main focus of the genetics section Survival and life table analyses are used to assess inbreeding effects Quantitative genetics methods are applied to natural history traits as a tool to monitor genetic variation A fourth section on conservation shows how data from captive populations can be used where natural history data from wild populations are missing A real example uses studbook data to inform Population Viability Analysis The final section deals with issues related to incomplete and missing data and statistical topics The purpose written open source software programs Population

Management Library PML and studbookR used for analyses in the book are available at [www.princee.com](http://www.princee.com)

**Dynamical Biostatistical Models** Daniel Commenges, Helene Jacqmin-Gadda, 2015-10-02 Dynamical Biostatistical Models presents statistical models and methods for the analysis of longitudinal data. The book focuses on models for analyzing repeated measures of quantitative and qualitative variables and events history including survival and multistate models. Most of the advanced methods such as multistate and joint models can be applied.

**Mixed Effects Models for the Population Approach** Marc Lavielle, 2014-07-14 Wide Ranging Coverage of Parametric Modeling in Linear and Nonlinear Mixed Effects Models. Mixed Effects Models for the Population Approach: Models, Tasks, Methods, and Tools presents a rigorous framework for describing, implementing, and using mixed effects models. With these models, readers can perform parameter estimation and modeling across a whole population of individuals at the same time. Easy to Use Techniques and Tools for Real World Data Modeling. The book first shows how the framework allows model representation for different data types including continuous, categorical, count, and time to event data. This leads to the use of generic methods such as the stochastic approximation of the EM algorithm, SAEM, for modeling these diverse data types. The book also covers other essential methods including Markov chain Monte Carlo, MCMC, and importance sampling techniques. The author uses publicly available software tools to illustrate modeling tasks. Methods are implemented in Monolix, and models are visually explored using Mlxplore and simulated using Simulx. Careful Balance of Mathematical Representation and Practical Implementation. This book takes readers through the whole modeling process from defining, creating a parametric model to performing tasks on the model using various mathematical methods. Statisticians and mathematicians will appreciate the rigorous representation of the models and theoretical properties of the methods, while modelers will welcome the practical capabilities of the tools. The book is also useful for training and teaching in any field where population modeling occurs.

*Design and Analysis of Non-Inferiority Trials* Mark D. Rothmann, Brian L. Wiens, Ivan S.F. Chan, 2016-04-19 The increased use of non inferiority analysis has been accompanied by a proliferation of research on the design and analysis of non inferiority studies. Using examples from real clinical trials, Design and Analysis of Non Inferiority Trials brings together this body of research and confronts the issues involved in the design of a non inferiority trial.

*Medical Biostatistics, Third Edition* Abhaya Indrayan, 2012-08-07 Encyclopedic in breadth yet practical and concise, Medical Biostatistics Third Edition focuses on the statistical aspects of medicine with a medical perspective showing the utility of biostatistics as a tool to manage many medical uncertainties. The author concludes that just as results of medical tests, statistical results can be false negative or false positive. This edition provides expanded coverage of topics and includes software illustrations. The author presents step by step explanations of statistical methods with the help of numerous real world examples. Guide charts at the beginning of the book enable quick access to the relevant statistical procedure, and the comprehensive index makes it easier to locate terms of interest.

Industrial Data Analytics for Diagnosis and Prognosis Shiyu Zhou, Yong Chen, 2021-08-31 Discover data analytics methodologies for the

diagnosis and prognosis of industrial systems under a unified random effects model In *Industrial Data Analytics for Diagnosis and Prognosis* A Random Effects Modelling Approach distinguished engineers Shiyu Zhou and Yong Chen deliver a rigorous and practical introduction to the random effects modeling approach for industrial system diagnosis and prognosis In the book s two parts general statistical concepts and useful theory are described and explained as are industrial diagnosis and prognosis methods The accomplished authors describe and model fixed effects random effects and variation in univariate and multivariate datasets and cover the application of the random effects approach to diagnosis of variation sources in industrial processes They offer a detailed performance comparison of different diagnosis methods before moving on to the application of the random effects approach to failure prognosis in industrial processes and systems In addition to presenting the joint prognosis model which integrates the survival regression model with the mixed effects regression model the book also offers readers A thorough introduction to describing variation of industrial data including univariate and multivariate random variables and probability distributions Rigorous treatments of the diagnosis of variation sources using PCA pattern matching and the random effects model An exploration of extended mixed effects model including mixture prior and Kalman filtering approach for real time prognosis A detailed presentation of Gaussian process model as a flexible approach for the prediction of temporal degradation signals Ideal for senior year undergraduate students and postgraduate students in industrial manufacturing mechanical and electrical engineering *Industrial Data Analytics for Diagnosis and Prognosis* is also an indispensable guide for researchers and engineers interested in data analytics methods for system diagnosis and prognosis

**Controversial Statistical Issues in Clinical Trials** Shein-Chung Chow, 2016-04-19 In clinical trial practice controversial statistical issues inevitably occur regardless of the compliance with good statistical practice and good clinical practice But by identifying the causes of the issues and correcting them the study objectives of clinical trials can be better achieved *Controversial Statistical Issues in Clinical Trials* covers **European Workshop on Structural Health Monitoring** Piervincenzo Rizzo, Alberto Milazzo, 2022-06-21 This volume gathers the latest advances innovations and applications in the field of structural health monitoring SHM and more broadly in the fields of smart materials and intelligent systems as presented by leading international researchers and engineers at the 10th European Workshop on Structural Health Monitoring EWSHM held in Palermo Italy on July 4 7 2022 The volume covers highly diverse topics including signal processing smart sensors autonomous systems remote sensing and support UAV platforms for SHM Internet of Things Industry 4 0 and SHM for civil structures and infrastructures The contributions which are published after a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists **Biostatistics: A Computing Approach** Stewart Anderson, 2011-12-20 The emergence of high speed computing has facilitated the development of many exciting statistical and mathematical methods in the last 25 years broadening the landscape of available tools in statistical investigations of

complex data Biostatistics A Computing Approach focuses on visualization and computational approaches associated with both mo

**Dose Finding by the Continual Reassessment Method** Ying Kuen Cheung, 2011-03-29 This book presents the continual reassessment method CRM as a tool for dose finding studies With a focus on the implementation and practice of the CRM and its variations it explains how the CRM may be calibrated and extended to suit common clinical settings The book includes examples of real clinical trials data to illustrate the calibration techniques and shows how R can be used to carry out the techniques It reviews the literature related methodology and theoretical properties of the CRM It also explores alternatives for situations where the CRM fails

**Measures of Interobserver Agreement and Reliability** Mohamed M. Shoukri, 2010-12-14 Measures of Interobserver Agreement and Reliability Second Edition covers important issues related to the design and analysis of reliability and agreement studies It examines factors affecting the degree of measurement errors in reliability generalization studies and characteristics influencing the process of diagnosing each subject in a reliability study The book also illustrates the importance of blinding and random selection of subjects New to the Second Edition New chapter that describes various models for methods comparison studies New chapter on the analysis of reproducibility using the within subjects coefficient of variation Emphasis on the definition of the subjects and raters population as well as sample size determination This edition continues to offer guidance on how to run sound reliability and agreement studies in clinical settings and other types of investigations The author explores two ways of producing one pooled estimate of agreement from several centers a fixed effect approach and a random sample of centers using a simple meta analytic approach The text includes end of chapter exercises as well as downloadable resources of data sets and SAS code

*Clinical Trial Data Analysis Using R* Ding-Geng (Din) Chen, Karl E. Peace, 2010-12-14 Too often in biostatistical research and clinical trials a knowledge gap exists between developed statistical methods and the applications of these methods Filling this gap Clinical Trial Data Analysis Using R provides a thorough presentation of biostatistical analyses of clinical trial data and shows step by step how to implement the statistical methods using R The book s practical detailed approach draws on the authors 30 years of real world experience in biostatistical research and clinical development Each chapter presents examples of clinical trials based on the authors actual experiences in clinical drug development Various biostatistical methods for analyzing the data are then identified The authors develop analysis code step by step using appropriate R packages and functions This approach enables readers to gain an understanding of the analysis methods and R implementation so that they can use R to analyze their own clinical trial data With step by step illustrations of R implementations this book shows how to easily use R to simulate and analyze data from a clinical trial It describes numerous up to date statistical methods and offers sound guidance on the processes involved in clinical trials

**Bayesian Analysis Made Simple** Phil Woodward, 2011-08-26 Although the popularity of the Bayesian approach to statistics has been growing for years many still think of it as somewhat esoteric not focused on practical issues or generally too difficult to understand Bayesian Analysis Made Simple is aimed at those who

wish to apply Bayesian methods but either are not experts or do not have the time to create WinBUGS code and ancillary files for every analysis they undertake Accessible to even those who would not routinely use Excel this book provides a custom made Excel GUI immediately useful to those users who want to be able to quickly apply Bayesian methods without being distracted by computing or mathematical issues From simple NLMs to complex GLMMs and beyond Bayesian Analysis Made Simple describes how to use Excel for a vast range of Bayesian models in an intuitive manner accessible to the statistically savvy user Packed with relevant case studies this book is for any data analyst wishing to apply Bayesian methods to analyze their data from professional statisticians to statistically aware scientists

*Reliability of Nuclear Power Plants* Andre Lannoy, 2022-08-19 Since the 1970s the field of industrial reliability has evolved significantly in part due to the design and early operation of the first generation nuclear power plants Indeed the needs of this sector have led to the development of specific and innovative reliability methods which have since been taken up and adapted by other industrial sectors leading to the development of the management of uncertainties and Health and Usage Monitoring Systems In this industry reliability assessment approaches have matured There are now methods data and tools available that can be used with confidence for many industrial applications The purpose of this book is to present and illustrate them with real study cases The book addresses the evolution of reliability methods experience feedback and expertise as data is essential for estimating reliability the reliability of socio technical systems and probabilistic safety assessments the structural reliability and probabilistic models in mechanics the reliability of equipment and the impact of maintenance on their behavior human and organizational factors and the impact of big data on reliability Finally some R D perspectives that can be developed in the future are presented Written by several engineers statisticians and human and organizational factors specialists in the nuclear sector this book is intended for all those who are faced with a reliability assessment of their installations or equipment decision makers engineers designers operation or maintenance engineers project managers human and organizational factors specialists experts and regulatory authority inspectors teachers researchers and doctoral students

**Advanced Survival Models** Catherine Legrand, 2021-03-22 Survival data analysis is a very broad field of statistics encompassing a large variety of methods used in a wide range of applications and in particular in medical research During the last twenty years several extensions of classical survival models have been developed to address particular situations often encountered in practice This book aims to gather in a single reference the most commonly used extensions such as frailty models in case of unobserved heterogeneity or clustered data cure models when a fraction of the population will not experience the event of interest competing risk models in case of different types of event and joint survival models for a time to event endpoint and a longitudinal outcome Features Presents state of the art approaches for different advanced survival models including frailty models cure models competing risk models and joint models for a longitudinal and a survival outcome Uses consistent notation throughout the book for the different techniques presented Explains in which situation each of these models should

be used and how they are linked to specific research questions Focuses on the understanding of the models their implementation and their interpretation with an appropriate level of methodological development for masters students and applied statisticians Provides references to existing R packages and SAS procedure or macros and illustrates the use of the main ones on real datasets This book is primarily aimed at applied statisticians and graduate students of statistics and biostatistics It can also serve as an introductory reference for methodological researchers interested in the main extensions of classical survival analysis

*Bayesian Hierarchical Models* Peter D. Congdon, 2019-09-16 An intermediate level treatment of Bayesian hierarchical models and their applications this book demonstrates the advantages of a Bayesian approach to data sets involving inferences for collections of related units or variables and in methods where parameters can be treated as random collections Through illustrative data analysis and attention to statistical computing this book facilitates practical implementation of Bayesian hierarchical methods The new edition is a revision of the book *Applied Bayesian Hierarchical Methods* It maintains a focus on applied modelling and data analysis but now using entirely R based Bayesian computing options It has been updated with a new chapter on regression for causal effects and one on computing options and strategies This latter chapter is particularly important due to recent advances in Bayesian computing and estimation including the development of rjags and rstan It also features updates throughout with new examples The examples exploit and illustrate the broader advantages of the R computing environment while allowing readers to explore alternative likelihood assumptions regression structures and assumptions on prior densities Features Provides a comprehensive and accessible overview of applied Bayesian hierarchical modelling Includes many real data examples to illustrate different modelling topics R code based on rjags jagsUI R2OpenBUGS and rstan is integrated into the book emphasizing implementation Software options and coding principles are introduced in new chapter on computing Programs and data sets available on the book s website

*Bayesian Adaptive Methods for Clinical Trials* Scott M. Berry, Bradley P. Carlin, J. Jack Lee, Peter Muller, 2010-07-19 Already popular in the analysis of medical device trials adaptive Bayesian designs are increasingly being used in drug development for a wide variety of diseases and conditions from Alzheimer s disease and multiple sclerosis to obesity diabetes hepatitis C and HIV Written by leading pioneers of Bayesian clinical trial designs Bayesian Adapti

*Clinical Trial Biostatistics and Biopharmaceutical Applications* Walter R. Young, Ding-Geng (Din) Chen, 2014-11-20 Since 1945 The Annual Deming Conference on Applied Statistics has been an important event in the statistics profession In Clinical Trial Biostatistics and Biopharmaceutical Applications prominent speakers from past Deming conferences present novel biostatistical methodologies in clinical trials as well as up to date biostatistical applications

**Handbook of Survival Analysis** John P. Klein, Hans C. van Houwelingen, Joseph G. Ibrahim, Thomas H. Scheike, 2016-04-19 Handbook of Survival Analysis presents modern techniques and research problems in lifetime data analysis This area of statistics deals with time to event data that is complicated by censoring and the dynamic nature of events occurring in time With chapters written by



leading researchers in the field the handbook focuses on advances in survival analysis techniques covering classical and Bayesian approaches It gives a complete overview of the current status of survival analysis and should inspire further research in the field Accessible to a wide range of readers the book provides An introduction to various areas in survival analysis for graduate students and novices A reference to modern investigations into survival analysis for more established researchers A text or supplement for a second or advanced course in survival analysis A useful guide to statistical methods for analyzing survival data experiments for practicing statisticians

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