

Richard J. Cook · Gerald R. Lawless

The Statistical Analysis of Recurrent Events

Chapman & Hall

The Statistical Analysis Of Recurrent Events

Richard J. Cook, Jerald Lawless



The Statistical Analysis Of Recurrent Events:

The Statistical Analysis of Recurrent Events Richard J. Cook, Jerald Lawless, 2007-08-02 This book presents models and statistical methods for the analysis of recurrent event data. The authors provide broad detailed coverage of the major approaches to analysis while emphasizing the modeling assumptions that they are based on. More general intensity based models are also considered as well as simpler models that focus on rate or mean functions. Parametric nonparametric and semiparametric methodologies are all covered with procedures for estimation testing and model checking. [The Statistical Analysis of Recurrent Events](#) Richard J. Cook, Jerald Lawless, 2008-11-01 This book presents models and statistical methods for the analysis of recurrent event data. The authors provide broad detailed coverage of the major approaches to analysis while emphasizing the modeling assumptions that they are based on. More general intensity based models are also considered as well as simpler models that focus on rate or mean functions. Parametric nonparametric and semiparametric methodologies are all covered with procedures for estimation testing and model checking. *Statistical Analysis of Panel Count Data* Jianguo Sun, Xingqiu Zhao, 2013-10-09 Panel count data occur in studies that concern recurrent events or event history studies when study subjects are observed only at discrete time points. By recurrent events we mean the event that can occur or happen multiple times or repeatedly. Examples of recurrent events include disease infections hospitalizations in medical studies warranty claims of automobiles or system break downs in reliability studies. In fact many other fields yield event history data too such as demographic studies economic studies and social sciences. For the cases where the study subjects are observed continuously the resulting data are usually referred to as recurrent event data. This book collects and unifies statistical models and methods that have been developed for analyzing panel count data. It provides the first comprehensive coverage of the topic. The main focus is on methodology but for the benefit of the reader the applications of the methods to real data are also discussed along with numerical calculations. There exists a great deal of literature on the analysis of recurrent event data. This book fills the void in the literature on the analysis of panel count data. This book provides an up to date reference for scientists who are conducting research on the analysis of panel count data. It will also be instructional for those who need to analyze panel count data to answer substantive research questions. In addition it can be used as a text for a graduate course in statistics or biostatistics that assumes a basic knowledge of probability and statistics. **Statistical Analysis of Recurrent Events by Point Process** Gyeongtae Hong, 2019 [The Statistical Analysis of Interval-censored Failure Time Data](#) Jianguo Sun, 2007-05-26 This book collects and unifies statistical models and methods that have been proposed for analyzing interval censored failure time data. It provides the first comprehensive coverage of the topic of interval censored data and complements the books on right censored data. The focus of the book is on nonparametric and semiparametric inferences but it also describes parametric and imputation approaches. This book provides an up to date reference for people who are conducting research on the analysis of interval censored failure time data as well as for those

who need to analyze interval censored data to answer substantive questions **The Statistical Analysis of Failure Time Data** John D. Kalbfleisch, Ross L. Prentice, 2011-01-25 Contains additional discussion and examples on left truncation as well as material on more general censoring and truncation patterns Introduces the martingale and counting process formulation will be in a new chapter Develops multivariate failure time data in a separate chapter and extends the material on Markov and semi Markov formulations Presents new examples and applications of data analysis **The Statistical Analysis of Multivariate Failure Time Data** Ross L. Prentice, Shanshan Zhao, 2019-05-14 The Statistical Analysis of Multivariate Failure Time Data A Marginal Modeling Approach provides an innovative look at methods for the analysis of correlated failure times The focus is on the use of marginal single and marginal double failure hazard rate estimators for the extraction of regression information For example in a context of randomized trial or cohort studies the results go beyond that obtained by analyzing each failure time outcome in a univariate fashion The book is addressed to researchers practitioners and graduate students and can be used as a reference or as a graduate course text Much of the literature on the analysis of censored correlated failure time data uses frailty or copula models to allow for residual dependencies among failure times given covariates In contrast this book provides a detailed account of recently developed methods for the simultaneous estimation of marginal single and dual outcome hazard rate regression parameters with emphasis on multiplicative Cox models Illustrations are provided of the utility of these methods using Women's Health Initiative randomized controlled trial data of menopausal hormones and of a low fat dietary pattern intervention As byproducts these methods provide flexible semiparametric estimators of pairwise bivariate survivor functions at specified covariate histories as well as semiparametric estimators of cross ratio and concordance functions given covariates The presentation also describes how these innovative methods may extend to handle issues of dependent censorship missing and mismeasured covariates and joint modeling of failure times and covariates setting the stage for additional theoretical and applied developments This book extends and continues the style of the classic Statistical Analysis of Failure Time Data by Kalbfleisch and Prentice Ross L Prentice is Professor of Biostatistics at the Fred Hutchinson Cancer Research Center and University of Washington in Seattle Washington He is the recipient of COPSS Presidents and Fisher awards the AACR Epidemiology Prevention and Team Science awards and is a member of the National Academy of Medicine Shanshan Zhao is a Principal Investigator at the National Institute of Environmental Health Sciences in Research Triangle Park North Carolina Advances in Survival Analysis Narayanaswamy Balakrishnan, C.R. Rao, 2004-01-30 Handbook of Statistics Advances in Survival Analysis covers all important topics in the area of Survival Analysis Each topic has been covered by one or more chapters written by internationally renowned experts Each chapter provides a comprehensive and up to date review of the topic Several new illustrative examples have been used to demonstrate the methodologies developed The book also includes an exhaustive list of important references in the area of Survival Analysis Includes up to date reviews on many important topics Chapters

written by many internationally renowned experts Some Chapters provide completely new methodologies and analyses Includes some new data and methods of analyzing them **Event History and Survival Analysis** Paul D.

Allison,2014-02-19 Social scientists are interested in events and their causes Although event histories are ideal for studying the causes of events they typically possess two features censoring and time varying explanatory variables that create major problems for standard statistical procedures Several innovative approaches have been developed to accommodate these two peculiarities of event history data This volume surveys these methods concentrating on the approaches that are most useful to the social sciences In particular Paul D Allison focuses on regression methods in which the occurrence of events is dependent on one or more explanatory variables He gives attention to the statistical models that form the basis of event history analysis and also to practical concerns such as data management cost and useful computer software The Second Edition is part of SAGE s Quantitative Applications in the Social Sciences QASS series which continues to serve countless students instructors and researchers in learning the most cutting edge quantitative techniques *Survival and Event History Analysis* Odd Aalen,Ornulf Borgan,Hakon Gjessing,2008-09-16 The aim of this book is to bridge the gap between standard textbook models and a range of models where the dynamic structure of the data manifests itself fully The common denominator of such models is stochastic processes The authors show how counting processes martingales and stochastic integrals fit very nicely with censored data Beginning with standard analyses such as Kaplan Meier plots and Cox regression the presentation progresses to the additive hazard model and recurrent event data Stochastic processes are also used as natural models for individual frailty they allow sensible interpretations of a number of surprising artifacts seen in population data The stochastic process framework is naturally connected to causality The authors show how dynamic path analyses can incorporate many modern causality ideas in a framework that takes the time aspect seriously To make the material accessible to the reader a large number of practical examples mainly frommedicine are developed in detail Stochastic processes are introduced in an intuitive and non technical manner The book is aimed at investigators who use event history methods and want a better understanding of the statistical concepts It is suitable as a textbook for graduate courses in statistics and biostatistics

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