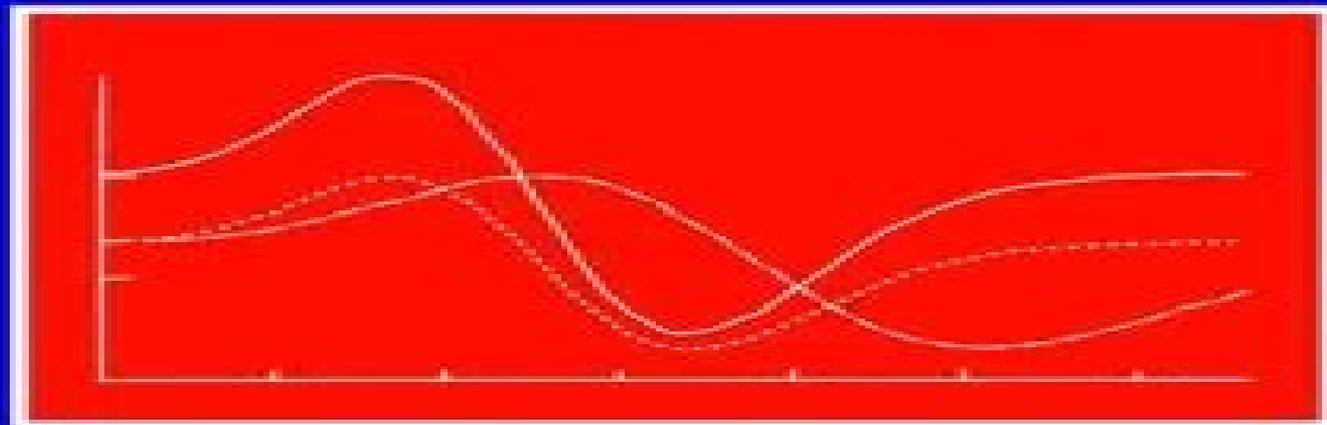


The Statistical Analysis of Failure Time Data

Second Edition



John D. Kalbfleisch
Ross L. Prentice

Statistical Analysis Of Failure Time Data

WJ Hussar



Statistical Analysis Of Failure Time Data:

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 Failure Time Data John D. Kalbfleisch, Ross L. Prentice, 1980-05-02 Failure time models Inference in parametric models and related topics The proportional hazards model Likelihood construction and further results on the proportional hazards model Inference based on ranks in the accelerated failure time model Multivariate failure time data and competing risks Miscellaneous topics

The Statistical Analysis of Failure Time Data J. D. Kalbfleisch, 1984

Survival Analysis Toby Miller, 1997-08

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

Statistical Analysis of Failure Time Data with Missing Information Ping Chen, 2009 Failure time data arise in many fields and can involve different types of censoring structures and missing information We consider three cases right censored data with missing censoring indicators clustered current status data and clustered interval censored data Chapter 2 discusses regression analysis of right censored failure time data with missing censoring indicators and presents an efficient estimation procedure based on the EM algorithm The simulation study performed indicates that the proposed methodology performs well for practical situations An illustrative example from a breast cancer clinical trial is provided Chapter 3 discusses regression analysis of clustered current status data For inference a Cox frailty model and a two step EM algorithm are presented A simulation study was conducted for the evaluation of the proposed methodology and indicates that the approach performs well for practical situations An illustrative example from a tumorigenicity experiment is provided Chapter 4 generalizes the study of Chapter 3 to clustered interval censored data Chapter 5 discusses some directions for future research

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

Encyclopedia of Biopharmaceutical Statistics - Four Volume Set Shein-Chung Chow, 2018-09-03 Since the publication of the first edition in 2000 there has been an explosive growth of literature in biopharmaceutical research and development of new medicines This encyclopedia 1 provides a comprehensive and unified presentation of designs and analyses used at different stages of the drug development process 2 gives a well balanced summary of current regulatory requirements and 3 describes recently developed statistical methods in the pharmaceutical sciences Features of the Fourth Edition 1 78 new and revised entries have been added for a total of 308 chapters and a fourth volume has been added to encompass the increased number of chapters 2 Revised and updated entries reflect changes and recent developments in regulatory requirements for the drug review approval process and statistical designs and methodologies 3 Additional topics include multiple stage adaptive trial design in clinical research translational medicine design and analysis of biosimilar drug development big data analytics and real world evidence for clinical research and development 4 A table of contents organized by stages of biopharmaceutical development provides easy access to relevant topics About the Editor Shein Chung Chow Ph D is currently an Associate Director Office of Biostatistics U S Food and Drug Administration FDA Dr Chow is an Adjunct Professor at Duke University School of Medicine as well as Adjunct Professor at Duke NUS Singapore and North Carolina State University Dr Chow is the Editor in Chief of the Journal of Biopharmaceutical Statistics and the Chapman Hall CRC Biostatistics Book Series and the author of 28 books and over 300 methodology papers

He was elected Fellow of the American Statistical Association in 1995

Methods and Applications of Statistics in Clinical Trials, Volume 2 Narayanaswamy Balakrishnan, 2014-06-16 Methods and Applications of Statistics in Clinical Trials Volume 2 Planning Analysis and Inferential Methods includes updates of established literature from the Wiley Encyclopedia of Clinical Trials as well as original material based on the latest developments in clinical trials Prepared by a leading expert the second volume includes numerous contributions from current prominent experts in the field of medical research In addition the volume features Multiple new articles exploring emerging topics such as evaluation methods with threshold empirical likelihood methods nonparametric ROC analysis over and under dispersed models and multi armed bandit problems Up to date research on the Cox proportional hazard model frailty models trial reports intrarater reliability conditional power and the kappa index Key qualitative issues including cost effectiveness analysis publication bias and regulatory issues which are crucial to the planning and data management of clinical trials

Encyclopedia of Quantitative Risk Analysis and Assessment, 2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online

Emerging Topics in Modeling Interval-Censored Survival Data Jianguo Sun, Ding-Geng Chen, 2022-11-29 This book primarily aims to discuss emerging topics in statistical methods and to booster research education and training to advance statistical modeling on interval censored survival data Commonly collected from public health and biomedical research among other sources interval censored survival data can easily be mistaken for typical right censored survival data which can result in erroneous statistical inference due to the complexity of this type of data The book invites a group of internationally leading researchers to systematically discuss and explore the historical development of the associated methods and their computational implementations as well as emerging topics related to interval censored data It covers a variety of topics including univariate interval censored data multivariate interval censored data clustered interval censored data competing risk interval censored data data with interval censored covariates interval censored data from electric medical records and misclassified interval censored data Researchers students and practitioners can directly make use of the state of the art methods covered in the book to tackle their problems in research education training and consultation

Survival Analysis with Interval-Censored Data Kris Bogaerts, Arnost Komarek, Emmanuel Lesaffre, 2017-11-20 Survival Analysis with Interval

Censored Data A Practical Approach with Examples in R SAS and BUGS provides the reader with a practical introduction into the analysis of interval censored survival times Although many theoretical developments have appeared in the last fifty years interval censoring is often ignored in practice Many are unaware of the impact of inappropriately dealing with interval censoring In addition the necessary software is at times difficult to trace This book fills in the gap between theory and practice Features Provides an overview of frequentist as well as Bayesian methods Include a focus on practical aspects and applications Extensively illustrates the methods with examples using R SAS and BUGS Full programs are available on a supplementary website The authors Kris Bogaerts is project manager at I BioStat KU Leuven He received his PhD in science statistics at KU Leuven on the analysis of interval censored data He has gained expertise in a great variety of statistical topics with a focus on the design and analysis of clinical trials Arno t Kom rek is associate professor of statistics at Charles University Prague His subject area of expertise covers mainly survival analysis with the emphasis on interval censored data and classification based on longitudinal data He is past chair of the Statistical Modelling Society and editor of Statistical Modelling An International Journal Emmanuel Lesaffre is professor of biostatistics at I BioStat KU Leuven His research interests include Bayesian methods longitudinal data analysis statistical modelling analysis of dental data interval censored data misclassification issues and clinical trials He is the founding chair of the Statistical Modelling Society past president of the International Society for Clinical Biostatistics and fellow of ISI and ASA

Lees' Loss Prevention in the Process Industries Frank Lees,2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources

Readings in Population Research Methodology: Mortality research Donald J. Bogue,Eduardo E. Arriaga,Douglas L. Anderton,1993

Variance Components Shayle R. Searle,George Casella,Charles E. McCulloch,1992-03-27 History and comment The 1 way classification Balanced data Analysis of variance estimation for unbalanced data Maximum likelihood ML and restricted maximum likelihood REML Prediction of random variables Computing ML and REML estimates Hierarchical models and bayesian estimation Binary and discrete data Other procedures The dispersion mean model

Probability and

Measure Patrick Billingsley, 1986-01-17 A senior graduate level text and reference that links the disciplines of probability and measure theory Including many practical problems and examples it begins with an introduction to Borel s normal number theorem proved by calculus alone followed by short sections that establish the existence and fundamental properties of probability measures including Lebesgue measure on the unit interval Coverage includes topics in measure integration random variables and expected values convergence of distributions derivatives and conditional probability and stochastic processes

Robust Statistics Frank R. Hampel, 2005-04-06 An introduction to the concepts theory and applications of robust statistics providing a comprehensive account of the infinitesimal approach and insight into the robustness properties of existing procedures

Structural Sensitivity in Econometric Models Edwin Kuh, John W. Neese, Peter Hollinger, 1985 This reference assesses the value of linear dynamic system analysis for understanding how complex econometric models work Emphasizing methodology in the context of a medium sized econometric model the Michigan Quarterly Econometric Model of the U S it examines various analytical techniques including systematic assessment of parameter sensitivity sorting out procedures and some properties of the MQEM The book augments the standard black box approach to analyzing economic model structure with more powerful concepts

OSU Statistics Technical Report Ohio State University. Department of Statistics, 1995

Far East Journal of Mathematical Sciences ,2007

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web 140g plain flour 100g soft fresh white breadcrumbs 100g light muscovado sugar crumbled if it looks lumpy 3 large eggs 2 tbsp brandy or cognac plus extra to light the pudding 250g packet butter taken straight from the fridge for the brandy and ginger butter 175g unsalted butter softened grated zest of half an orange 5 tbsp icing sugar

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