1. Record Nr. UNINA9910829905403321

Autore	Kalbfleisch J. D.
Titolo	The statistical analysis of failure time data / / John D. Kalbfleisch, Ross L. Prentice
Pubbl/distr/stampa	Hoboken, N.J. : , : J. Wiley, , [2002]
ISBN	1-282-24269-5 9786613813817 1-118-03298-5 1-118-03123-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (464 pages) : illustrations
Collana	Wiley series in probability and statistics
Disciplina	519.287 519.5
Soggetti	Failure time data analysis Survival analysis (Biometry) Regression analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record
Nota di bibliografia	Includes bibliographical references (pages 404-427) and indexes
Nota di contenuto	The Statistical Analysis of Failure Time Data; Contents; Preface; 1. Introduction; 1.1 Failure Time Data; 1.2 Failure Time Distributions; 1.3 Time Origins, Censoring, and Truncation; 1.4 Estimation of the Survivor Function; 1.5 Comparison of Survival Curves; 1.6 Generalizations to Accommodate Delayed Entry; 1.7 Counting Process Notation; Bibliographic Notes; Exercises and Complements; 2. Failure Time Models; 2.1 Introduction; 2.2 Some Continuous Parametric Failure Time Models; 2.3 Regression Models; 2.4 Discrete Failure Time Models; Bibliographic Notes; Exercises and Complements 3. Inference in Parametric Models and Related Topics3.1 Introduction; 3.2 Censoring Mechanisms; 3.3 Censored Samples from an Exponential Distribution; 3.4 Large-Sample Likelihood Theory; 3.5 Exponential Regression; 3.6 Estimation in Log-Linear Regression Models; 3.7 Illustrations in More Complex Data Sets; 3.8 Discrimination Among Parametric Models; 3.9 Inference with Interval Censoring; 3.10 Discussion; Bibliographic Notes; Exercises and Complements; 4. Relative Risk (Cox) Regression Models; 4.1 Introduction; 4.2 Estimation

of ; 4.3 Estimation of the Baseline Hazard or Survivor Function
4.4 Inclusion of Strata4.5 Illustrations; 4.6 Counting Process Formulas; 4.7 Related Topics on the Cox Model; 4.8 Sampling from Discrete Models; Bibliographic Notes; Exercises and Complements; 5. Counting Processes and Asymptotic Theory; 5.1 Introduction; 5.2 Counting Processes and Intensity Functions; 5.3 Martingales; 5.4 Vector-Valued Martingales; 5.5 Martingale Central Limit Theorem; 5.6 Asymptotics Associated with Chapter 1; 5.7 Asymptotic Results for the Cox Model; 5.8 Asymptotic Results for Parametric Models; 5.9 Efficiency of the Cox Model Estimator; 5.10 Partial Likelihood Filtration
Bibliographic NotesExercises and Complements; 6. Likelihood Construction and Further Results; 6.1 Introduction; 6.2 Likelihood Construction in Parametric Models; 6.3 Time-Dependent Covariates and Further Remarks on Likelihood Construction; 6.4 Time Dependence in the Relative Risk Model; 6.5 Nonnested Conditioning Events; 6.6 Residuals and Model Checking for the Cox Model; Bibliographic Notes; Exercises and Complements; 7. Rank Regression and the Accelerated Failure Time Model; 7.1 Introduction; 7.2 Linear Rank Tests; 7.3 Development and Properties of Linear Rank Tests
7.4 Estimation in the Accelerated Failure Time Model7.5 Some Related Regression Models; Bibliographic Notes; Exercises and Complements; 8. Competing Risks and Multistate Models; 8.1 Introduction; 8.2 Competing Risks; 8.3 Life-History Processes; Bibliographic Notes; Exercises and Complements; 9. Modeling and Analysis of Recurrent Event Data; 9.1 Introduction; 9.2 Intensity Processes for Recurrent Events; 9.3 Overall Intensity Process Modeling and Estimation; 9.4 Mean Process Modeling and Estimation; 9.5 Conditioning on Aspects of the Counting Process History; Bibliographic Notes
Exercises and Complements

Sommario/riassunto

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 swil lbe 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