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A Handbook of Statistical Analyses Using S-PLUS
 Handbook of Infectious Disease Data Analysis
 Modelling Survival Data in Medical Research
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A Handbook of Statistical Analyses Using S-PLUS CRC Press

Introducing Survival Analysis and Event History Analysis is an accessible, practical and comprehensive guide for researchers and students who want to understand the basics of survival and event history analysis and apply these methods without getting entangled in mathematical and theoretical technicalities. Inside, readers are offered a blueprint for their entire research project from data preparation to model selection and diagnostics. Engaging, easy to read, functional and packed with enlightening examples, 'hands-on' exercises and resources for both students and instructors, Introducing Survival Analysis and Event History Analysis allows researchers to quickly master these advanced statistical techniques. This book is written from the perspective of the 'user', making it suitable as both a self-learning tool and graduate-level textbook. Introducing Survival Analysis and Event History Analysis covers the most up-to-date innovations in the field, including advancements in the assessment of model fit, frailty and recurrent event models, discrete-time methods, competing and multistate models and sequence analysis. Practical instructions are also included, focusing on the statistical program R and Stata, enabling readers to replicate the examples described in the text. This book comes with a glossary, a

range of practical and user-friendly examples, cases and exercises.

Handbook of Infectious Disease Data Analysis CRC Press

Critically acclaimed and resoundingly popular in its first edition, Modelling Survival Data in Medical Research has been thoroughly revised and updated to reflect the many developments and advances--particularly in software--made in the field over the last 10 years. Now, more than ever, it provides an outstanding text for upper-level and graduate courses in survival analysis, biostatistics, and time-to-event analysis. The treatment begins with an introduction to survival analysis and a description of four studies that lead to survival data. Subsequent chapters then use those data sets and others to illustrate the various analytical techniques applicable to such data, including the Cox regression model, the Weibull proportional hazards model, and others. This edition features a more detailed treatment of topics such as parametric models, accelerated failure time models, and analysis of interval-censored data. The author also focuses the software section on the use of SAS, summarising the methods used by the software to generate its output and examining that output in detail. Profusely illustrated with examples and written in the author's trademark, easy-to-follow style, Modelling Survival Data in Medical Research, Second Edition is a thorough, practical guide to survival analysis that reflects current statistical practices.

Modelling Survival Data in Medical Research Springer Science & Business Media

This book should be of interest to statistics lecturers who want ready-made data sets complete with notes for teaching.

[A Handbook of Statistical Analyses Using R](#) CRC Press

Despite the recent rapid growth in machine learning and predictive analytics, many of the statistical questions that are faced by researchers and practitioners still involve explaining why something is happening. Regression analysis is the best 'swiss army knife' we have for answering these kinds of questions. This book is a learning resource on inferential statistics and regression analysis. It teaches how to do a wide range of statistical analyses in both R and in Python, ranging from simple hypothesis testing to advanced multivariate modelling. Although it is primarily focused on examples related to the analysis of people and talent, the methods easily transfer to any discipline. The book hits a 'sweet spot' where there is just enough mathematical theory to support a strong understanding of the methods, but with a step-by-step guide and easily reproducible examples and code, so that the methods can be put into practice immediately. This makes the book accessible to a wide readership, from public and private sector analysts and practitioners to students and researchers. Key Features: • 16 accompanying datasets across a wide range of contexts (e.g. academic, corporate, sports, marketing) • Clear step-by-step instructions on executing the analyses. • Clear guidance on how to interpret results. • Primary instruction in R but added sections for Python coders. • Discussion exercises and data exercises for each of the main chapters. • Final chapter of practice material and datasets ideal for class homework or project work.

[An Introduction to Generalized Linear Models](#) CRC Press

"Fourth edition has new chapters on Bayesian survival analysis and use of the R software. Chapters extensively revised, expanded to add new material on topics that include methods for assessing predictive ability of a model, joint models for longitudinal and survival data, modern methods for the analysis of interval-censored survival data"--

[Doing Meta-Analysis with R](#) Springer Nature

An Introduction to Generalized Linear Models, Fourth Edition provides a cohesive framework for statistical modelling, with an emphasis on numerical and graphical methods. This new edition of a bestseller has been updated with new sections on non-linear associations, strategies for model selection, and a Postface on good statistical practice. Like its predecessor, this edition presents the theoretical background of generalized linear models (GLMs) before focusing on methods for analyzing particular kinds of data. It covers Normal, Poisson, and Binomial distributions; linear regression models; classical estimation and model fitting methods; and frequentist methods of statistical inference. After forming this foundation, the authors explore multiple linear regression, analysis of variance (ANOVA), logistic regression, log-linear models, survival analysis, multilevel modeling, Bayesian models, and Markov chain Monte Carlo (MCMC) methods. Introduces GLMs in a way that enables readers to understand the unifying structure that underpins them Discusses common concepts and principles of advanced GLMs, including nominal and ordinal regression, survival analysis, non-linear associations and longitudinal analysis Connects Bayesian analysis and MCMC methods to fit GLMs Contains numerous examples from business, medicine, engineering, and the social sciences Provides the example code for R, Stata, and WinBUGS to encourage implementation of the methods Offers the data sets and solutions to the exercises online Describes the components of good statistical practice to improve scientific validity and reproducibility of results. Using popular statistical software programs, this concise and accessible text illustrates practical approaches to estimation, model fitting, and model comparisons.

[Handbook of Survival Analysis](#) CRC Press

Highly recommended by the Journal of Official Statistics, The American Statistician, and other journals, Applied Survey Data Analysis, Second Edition provides an up-to-date overview of state-of-the-art approaches to the analysis of complex sample survey data. Building on the wealth of material on practical approaches to descriptive analysis and regression modeling from the first edition, this second edition expands the topics covered and presents more step-by-step examples of modern approaches to the analysis of survey data using the newest statistical software. Designed for readers working in a wide array of disciplines who use survey data in their work, this book continues to provide a useful framework for integrating more in-depth studies of the theory and methods of survey data analysis. An example-driven guide to the applied statistical analysis and interpretation of survey data, the second edition contains many new examples and practical exercises based on recent versions of real-world survey data sets. Although the authors continue to use Stata for most examples in the text, they also continue to offer SAS, SPSS, SUDAAN, R, WesVar, IVEware, and Mplus software code for replicating the examples on the book's updated website.

[Bayesian Survival Analysis](#) CRC Press

The Hunger Games meets Matched in this high-concept thriller where citizens must prove their worth by defeating the other version of themselves—their twin. Two of you exist. Only one will survive. West Grayer is ready. She's trained for years to confront her Alternate, a twin raised by another family. Survival means a good job, marriage—life. But then a tragic misstep leaves West questioning: Is she the best version of herself, the version worthy of a future? If she is to have any chance of winning, she must stop running not only from herself, but also from love . . . though both have the power to destroy her. Fast-paced and unpredictable, Elsie Chapman's suspenseful YA debut weaves unexpected romance into a chilling, unforgettable world. Praise for *Dualed*: "A gripping, thought-provoking thriller that keeps your heart racing and your palms sweaty. . . . The kind of book Katniss Everdeen and Jason Bourne would devour." —Andrew Fukuda, author of the Hunt series "Full of unexpected turns. . . . Fans of the *Divergent* trilogy will want to read this imaginative tale." —VOYA "A fast ride from first to final pages, *Dualed* combines action and heart." —Mindy McGinnis, author of *Not a Drop to Drink* "Intense and swift, *Dualed* grabbed me by the throat and kept me turning pages all the way to the end. Romance and action fans alike will love it." —Elana Johnson, author of the *Possession* series "Stylish, frenetic, and violent, . . . the textual equivalent of a Quentin Tarantino movie." —Publishers Weekly "A double dose of intensity and danger in this riveting tale of survival, heartache, and love." —Kasie West, author of *Pivot Point* "This thought-provoking survival-of-the-fittest story will leave you breathless for more." —Ellen Oh, author of *Prophecy* "Clever suspense—here, stalking is a two-way street." —Kirkus Reviews

[Handbook of Statistical Methods for Case-Control Studies](#) Stata Press

Many new challenges have arisen in the area of oncology clinical trials. New cancer therapies are often based on cytostatic or targeted agents, which pose new challenges in the design and analysis of all phases of trials. The literature on adaptive trial designs and early stopping has been exploding. Inclusion of high-dimensional data and imaging techniques have become common practice, and statistical methods on how to analyse such data have

been refined in this area. A compilation of statistical topics relevant to these new advances in cancer research, this third edition of *Handbook of Statistics in Clinical Oncology* focuses on the design and analysis of oncology clinical trials and translational research. Addressing the many challenges that have arisen since the publication of its predecessor, this third edition covers the newest developments involved in the design and analysis of cancer clinical trials, incorporating updates to all four parts: Phase I trials: Updated recommendations regarding the standard 3 + 3 and continual reassessment approaches, along with new chapters on phase 0 trials and phase I trial design for targeted agents. Phase II trials: Updates to current experience in single-arm and randomized phase II trial designs. New chapters include phase II designs with multiple strata and phase II/III designs. Phase III trials: Many new chapters include interim analyses and early stopping considerations, phase III trial designs for targeted agents and for testing the ability of markers, adaptive trial designs, cure rate survival models, statistical methods of imaging, as well as a thorough review of software for the design and analysis of clinical trials. Exploratory and high-dimensional data analyses: All chapters in this part have been thoroughly updated since the last edition. New chapters address methods for analyzing SNP data and for developing a score based on gene expression data. In addition, chapters on risk calculators and forensic bioinformatics have been added. Accessible to statisticians and oncologists interested in clinical trial methodology, the book is a single-source collection of up-to-date statistical approaches to research in clinical oncology.

[Exploring Studbooks for Wildlife Management and Conservation](#) CRC Press

With each new release of Stata, a comprehensive resource is needed to highlight the improvements as well as discuss the fundamentals of the software. Fulfilling this need, *A Handbook of Statistical Analyses Using Stata, Fourth Edition* has been fully updated to provide an introduction to Stata version 9. This edition covers many

[Introducing Survival and Event History Analysis](#) Springer Science & Business Media

The Oxford Handbooks of Political Science are the essential guide to the state of political science today. With engaging contributions from major international scholars *The Oxford Handbook of Political Methodology* provides the key point of reference for anyone working throughout the discipline.

[Applied Survey Data Analysis](#) CRC Press

"[This book] provides new researchers with the foundation for understanding the various approaches for analyzing time-to-event data. This book serves not only as a tutorial for those wishing to learn survival analysis but as a . . . reference for experienced researchers. . . ."--Book jacket.

[Practical Multivariate Analysis](#) CRC Press

Since the first edition of this book was published, S-PLUS has evolved markedly with new methods of analysis, new graphical procedures, and a convenient graphical user interface (GUI). Today, S-PLUS is the statistical software of choice for many applied researchers in disciplines ranging from finance to medicine. Combining the command line languag

[Medical Biostatistics](#) SAGE

A straightforward and easy-to-follow introduction to the main concepts and techniques of the subject. It is based on numerous courses given by the author to students and researchers in the health sciences and is written with such readers in mind. A "user-friendly" layout includes numerous illustrations and exercises and the book is written in such a way so as to enable readers learn directly without the assistance of a classroom instructor. Throughout, there is an emphasis on presenting each new topic backed by real examples of a survival analysis investigation, followed up with thorough analyses of real data sets. Each chapter concludes with practice exercises to help readers reinforce their understanding of the concepts covered, before going on to a more comprehensive test. Answers to both are included. Readers will enjoy David Kleinbaums style of presentation, making this an excellent introduction for all those coming to the subject for the first time.

[Joint Models for Longitudinal and Time-to-Event Data](#) CRC Press

This is the sixth edition of a popular textbook on multivariate analysis. Well-regarded for its practical and accessible approach, with excellent examples and good guidance on computing, the book is particularly popular for teaching outside statistics, i.e. in epidemiology, social science, business, etc. The sixth edition has been updated with a new chapter on data visualization, a distinction made between exploratory and confirmatory analyses and a new section on generalized estimating equations and many new updates throughout. This new edition will enable the book to continue as one of the leading textbooks in the area, particularly for non-statisticians. Key Features: Provides a comprehensive, practical and accessible introduction to multivariate analysis. Keeps mathematical details to a minimum, so particularly geared toward a non-statistical audience. Includes lots of detailed worked examples, guidance on computing, and exercises. Updated with a new chapter on data visualization.

[Modeling Survival Data: Extending the Cox Model](#) Ember

Encyclopedic in breadth, yet practical and concise, *Medical Biostatistics, Fourth 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. This edition includes more topics in order to fill gaps in the previous edition. Various topics have been enlarged and modified as per the new understanding of the subject.

[Applied Survival Analysis Using R](#) SAS Institute

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.

Applied Meta-Analysis with R and Stata Springer

Developed from the authors' graduate-level biostatistics course, Applied Categorical and Count Data Analysis, Second Edition explains how to perform the statistical analysis of discrete data, including categorical and count outcomes. The authors have been teaching categorical data analysis courses at the University of Rochester and Tulane University for more than a decade. This book embodies their decade-long experience and insight in teaching and applying statistical models for categorical and count data. The authors describe the basic ideas underlying each concept, model, and approach to give readers a good grasp of the fundamentals of the methodology without relying on rigorous mathematical arguments. The second edition covers classic concepts and popular topics, such as contingency tables, logistic regression models, and Poisson regression models, along with modern areas that include models for zero-modified count outcomes, parametric and semiparametric longitudinal data analysis, reliability analysis, and methods for dealing with missing values. As in the first edition, R, SAS, SPSS, and Stata programming codes are provided for all the examples, enabling readers to immediately experiment with the data in the examples and even adapt or extend the codes to fit data from their own studies. Designed for a one-semester course for graduate and senior undergraduate students in biostatistics, this self-contained text is also suitable as a self-learning guide for biomedical and psychosocial researchers. It will help readers analyze data with discrete variables in a wide range of biomedical and psychosocial research fields. Features: Describes the basic ideas underlying each concept and model Includes R, SAS, SPSS and Stata programming codes for all the examples Features significantly expanded Chapters 4, 5, and 8 (Chapters 4-6, and 9 in the second edition Expands discussion for

subtle issues in longitudinal and clustered data analysis such as time varying covariates and comparison of generalized linear mixed-effect models with GEE

Survival analysis The Ultimate Step-By-Step Guide CRC Press

This book is for statistical practitioners, particularly those who design and analyze studies for survival and event history data. Building on recent developments motivated by counting process and martingale theory, it shows the reader how to extend the Cox model to analyze multiple/correlated event data using marginal and random effects. The focus is on actual data examples, the analysis and interpretation of results, and computation. The book shows how these new methods can be implemented in SAS and S-Plus, including computer code, worked examples, and data sets.

Advanced Survival Models CRC Press

Survival Analysis Using S: Analysis of Time-to-Event Data is designed as a text for a one-semester or one-quarter course in survival analysis for upper-level or graduate students in statistics, biostatistics, and epidemiology. Prerequisites are a standard pre-calculus first course in probability and statistics, and a course in applied linear regression models. No prior knowledge of S or R is assumed. A wide choice of exercises is included, some intended for more advanced students with a first course in mathematical statistics. The authors emphasize parametric log-linear models, while also detailing nonparametric procedures along with model building and data diagnostics. Medical and public health researchers will find the discussion of cut point analysis with bootstrap validation, competing risks and the cumulative incidence estimator, and the analysis of left-truncated and right-censored data invaluable. The bootstrap procedure checks robustness of cut point analysis and determines cut point(s). In a chapter written by Stephen Portnoy, censored regression quantiles - a new nonparametric regression methodology (2003) - is developed to identify important forms of population heterogeneity and to detect departures from traditional Cox models. By generalizing the Kaplan-Meier estimator to regression models for conditional quantiles, this methods provides a valuable complement to traditional Cox proportional hazards approaches.

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