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Survival Analysis Using Sas A Practical Second Edition

Survival Analysis Using S:
Analysis of Time-to-Event

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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

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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

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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.

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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-

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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

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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-

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Meier estimator to regression models for conditional quantiles, this methods provides a valuable complement to traditional Cox proportional hazards approaches.

Survival data analysis is a

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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

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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,

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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

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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

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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

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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

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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

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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

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researchers interested in the main extensions of classical survival analysis. There is a huge amount of literature on statistical models for the prediction of survival after diagnosis of a wide range of diseases

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like cancer, cardiovascular disease, and chronic kidney disease. Current practice is to use prediction models based on the Cox proportional hazards model and to present those as static models for remaining

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lifetime after diagnosis or treatment. In contrast, Dynamic Prediction in Clinical Survival Analysis focuses on dynamic models for the remaining lifetime at later points in time, for instance using landmark

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models. Designed to be useful to applied statisticians and clinical epidemiologists, each chapter in the book has a practical focus on the issues of working with real life data. Chapters conclude

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with additional material either on the interpretation of the models, alternative models, or theoretical background. The book consists of four parts: Part I deals with prognostic models for survival data

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using (clinical) information available at baseline, based on the Cox model Part II is about prognostic models for survival data using (clinical) information available at baseline, when the proportional hazards

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assumption of the Cox model is violated Part III is dedicated to the use of time-dependent information in dynamic prediction Part IV explores dynamic prediction models for survival data using genomic data Dynamic

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Prediction in Clinical Survival Analysis summarizes cutting-edge research on the dynamic use of predictive models with traditional and new approaches. Aimed at applied statisticians who actively analyze clinical

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data in collaboration with clinicians, the analyses of the different data sets throughout the book demonstrate how predictive models can be obtained from proper data sets. Easy to read and

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comprehensive, Survival Analysis Using SAS: A Practical Guide, Second Edition, by Paul Allison, is an accessible, data-based introduction to methods of survival analysis.

Researchers who want to

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analyze survival data with SAS will find just what they need with this fully updated new edition that incorporates the many enhancements in SAS procedures for survival analysis in SAS 9. Although

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the book assumes only a minimal knowledge of SAS, more experienced users will learn new techniques of data input and manipulation. Numerous examples of SAS code and output make this an eminently practical book,

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ensuring that even the uninitiated become sophisticated users of survival analysis. The main topics presented include censoring, survival curves, Kaplan-Meier estimation, accelerated failure time

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models, Cox regression models, and discrete-time analysis. Also included are topics not usually covered in survival analysis books, such as time-dependent covariates, competing risks, and repeated events.

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Survival Analysis Using SAS:
A Practical Guide, Second
Edition, has been thoroughly
updated for SAS 9, and all
figures are presented using
ODS Graphics. This new
edition also documents major
enhancements to the STRATA

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statement in the LIFETEST procedure; includes a section on the PROBLOT command, which offers graphical methods to evaluate the fit of each parametric regression model; introduces the new BAYES

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statement for both parametric and Cox models, which allows the user to do a Bayesian analysis using MCMC methods; demonstrates the use of the counting process syntax as an alternative method for

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handling time-dependent covariates; contains a section on cumulative incidence functions; and describes the use of the new GLIMMIX procedure to estimate random-effects models for discrete-time

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data. This book is part of
the SAS Press program.

Analysis of Time-to-Event
Data

Modeling Survival Data Using
Frailty Models

Regression for Longitudinal
Event Data

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SAS Survival Analysis

Techniques for Medical
Research

Applied Survival Analysis

***This special collection of SAS
Global Forum papers
demonstrates new and
enhanced capabilities and***

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applications of lesser-known SAS/STAT and SAS Viya procedures for regression models. The goal here is to raise awareness of current valuable SAS/STAT content of which the user may not be aware. Also available free as a

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***clustering, unequal weights,
or finite population correction
factors. After clearly
explaining how the presence
of these features can
invalidate the assumptions
underlying most traditional
statistical techniques, this***

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book equips readers with the knowledge to confidently account for them during the estimation and inference process by employing the SURVEY family of SAS/STAT® procedures. The book offers comprehensive coverage of

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***the most essential topics,
including: Drawing random
samples Descriptive statistics
for continuous and
categorical variables Fitting
and interpreting linear and
logistic regression models
Survival analysis Domain***

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variance estimation methods
Weight adjustment and
imputation methods for
handling missing data The
easy-to-follow examples are
drawn from real-world survey
data sets spanning multiple***

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disciplines, all of which can be downloaded for free along with syntax files from the author's website: <http://mason.gmu.edu/~tlewis18/>. While other books may touch on some of the same issues and nuances of complex survey

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***data analysis, none features
SAS exclusively and as
exhaustively. Another unique
aspect of this book is its
abundance of handy
workarounds for certain
techniques not yet supported
as of SAS Version 9.4, such as***

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*the ratio estimator for a total
and the bootstrap for variance
estimation. Taylor H. Lewis is
a PhD graduate of the Joint
Program in Survey
Methodology at the University
of Maryland, College Park,
and an adjunct professor in*

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***the George Mason University
Department of Statistics. An
avid SAS user for 15 years, he
is a SAS Certified Advanced
programmer and a nationally
recognized SAS educator who
has produced dozens of
papers and workshops***

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***illustrating how to efficiently
and effectively conduct
statistical analyses using SAS.
In this follow-up to
"Extending SAS Survival
Analysis Techniques for
Medical Research," the theory
and methods of survival***

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analysis and SAS procedures used to implement the methods are fully described. The new features, along with several useful macros and numerous examples, make this edition a suitable textbook for a course in

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on the part of the student. In addition to the basics of shooting and editing, different story forms are introduced from documentary and live events through fictional narratives. Each of the topics is covered in

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*enough depth to allow anyone
with a camera and a computer
to begin creating visual
projects of quality.*

*Analysis of Survival Data
Handbook of Survival Analysis
Models and Applications
Logistic Regression Using SAS*

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*Add the Empirical Likelihood to
Your Nonparametric*

Toolbox Empirical Likelihood

Method in Survival Analysis

*explains how to use the empirical
likelihood method for right
censored survival data. The*

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author uses R for calculating empirical likelihood and includes many worked out examples with the associated R code. The datasets and code are available This book is for statistical practitioners, particularly those who design and analyze studies

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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

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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.

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The need to understand, interpret and analyse competing risk data is key to many areas of science, particularly medical research. There is a real need for a book that presents an overview of methodology used in the interpretation and analysis of

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competing risks, with a focus on practical applications to medical problems, and incorporating modern techniques. This book fills that need by presenting the most up-to-date methodology, in a way that can be readily understood, and applied, by the practitioner.

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Drawing on recent "event history" analytical methods from biostatistics, engineering, and sociology, this clear and comprehensive monograph explains how longitudinal data can be used to study the causes of deaths, crimes, wars, and

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many other human events. Allison shows why ordinary multiple regression is not suited to analyze event history data, and demonstrates how innovative regression - like methods can overcome this problem. He then discusses the particular new

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*methods that social scientists
should find useful.*

*Analysis of Clinical Trials Using
SAS*

*Complex Survey Data Analysis
with SAS*

*A Practical Guide, Second Edition
Modeling Survival Data:*

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*Extending the Cox Model
Empirical Likelihood Method in
Survival Analysis*

Survival analysis
concerns sequential
occurrences of events
governed by

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probabilistic laws.

Recent decades have witnessed many applications of survival analysis in various disciplines. This book introduces both classic

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survival models and theories along with newly developed techniques. Readers will learn how to perform analysis of survival data by following

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numerous empirical
illustrations in SAS.
Survival Analysis:
Models and Applications:
Presents basic
techniques before
leading onto some of the

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most advanced topics in
survival analysis.

Assumes only a minimal
knowledge of SAS whilst
enabling more
experienced users to
learn new techniques of

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data input and manipulation. Provides numerous examples of SAS code to illustrate each of the methods, along with step-by-step instructions to perform

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each technique.

Highlights the strengths
and limitations of each
technique covered.

Covering a wide scope of
survival techniques and
methods, from the

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introductory to the
advanced, this book can
be used as a useful
reference book for
planners, researchers,
and professors who are
working in settings

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involving various
lifetime events.

Scientists interested in
survival analysis should
find it a useful
guidebook for the
incorporation of

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survival data and
methods into their
projects.

Statisticians and
researchers will find
this book, newly updated
for SAS/STAT 12.1, to be

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a useful discussion of
categorical data
analysis techniques as
well as an invaluable
aid in applying these
methods with SAS.

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actual trials serve to
define relevant
statistical approaches,

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describe their clinical trial applications, and implement the approaches rapidly and efficiently using the power of SAS. Topics reflect the International Conference

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on Harmonization (ICH)
guidelines for the
pharmaceutical industry
and address important
statistical problems
encountered in clinical
trials. Commonly used

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methods are covered,
including dose-
escalation and dose-
finding methods that are
applied in Phase I and
Phase II clinical
trials, as well as

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important trial designs
and analysis strategies
that are employed in
Phase II and Phase III
clinical trials, such as
multiplicity adjustment,
data monitoring, and

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methods for handling
incomplete data. This
book also features
recommendations from
clinical trial experts
and a discussion of
relevant regulatory

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guidelines. This new edition includes more examples and case studies, new approaches for addressing statistical problems, and the following new

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technological updates:
SAS procedures used in
group sequential trials
(PROC SEQDESIGN and PROC
SEQTEST) SAS procedures
used in repeated
measures analysis (PROC

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GLIMMIX and PROC GEE)
macros for implementing
a broad range of
randomization-based
methods in clinical
trials, performing
complex multiplicity

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adjustments, and
investigating the design
and analysis of early
phase trials (Phase I
dose-escalation trials
and Phase II dose-
finding trials) Clinical

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statisticians, research
scientists, and graduate
students in
biostatistics will
greatly benefit from the
decades of clinical
research experience and

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the ready-to-use SAS
macros compiled in this
book.

This volume of the
Biostatistics and Health
Sciences Set focuses on
statistics applied to

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clinical research. The use of SAS for data management and statistical modeling is illustrated using various examples. Many aspects of data

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processing and
statistical analysis of
cross-sectional and
experimental medical
data are covered,
including regression
models commonly found in

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medical statistics. This practical book is primarily intended for health researchers with a basic knowledge of statistical methodology. Assuming basic concepts,

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the authors focus on the
practice of
biostatistical methods
essential to clinical
research, epidemiology
and analysis of
biomedical data

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(including comparison of two groups, analysis of categorical data, ANOVA, linear and logistic regression, and survival analysis). The use of examples from clinical

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trials and
epidemiological studies
provide the basis for a
series of practical
exercises, which provide
instruction and
familiarize the reader

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with essential SAS
commands. Presents the
use of SAS software in
the statistical approach
for the management of
data modeling Includes
elements of the language

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and descriptive
statistics Supplies
measures of association,
comparison of means, and
proportions for two or
more samples Explores
linear and logistic

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regression Provides
survival data analysis
Biostatistics and
Computer-based Analysis
of Health Data Using SAS
A Practical Perspective
Advanced Survival Models

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Logistic Regression
Using the SAS System
Survival Analysis
*Written in an informal and
non-technical style, this
book first explains the
theory behind logistic*

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regression and then shows how to implement it using the SAS System. Allison includes several detailed, real-world examples of the social sciences to provide readers with a better understanding of the

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material. He also explores the differences and similarities among the many generalizations of the logistic regression model. This book presents the basic concepts of survival analysis and frailty models,

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covering both fundamental and advanced topics. It focuses on applications of statistical tools in biology and medicine, highlighting the latest frailty-model methodologies and applications in these areas.

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After explaining the basic concepts of survival analysis, the book goes on to discuss shared, bivariate, and correlated frailty models and their applications. It also features nine datasets that

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*have been analyzed using the
R statistical package.*

*Covering recent topics, not
addressed elsewhere in the
literature, this book is of
immense use to scientists,
researchers, students and
teachers.*

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*Functions of survival time;
Examples of survival data
analysis; Nonparametric
methods of estimating
survival functions;
Nonparametric methods for
comparing survival
distributions; Some well-*

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*known survival distributions
and their applications;
Graphical methods for
survival distribution
fitting and goodness-of-fit
tests; Analytical estimation
procedures for survival
distributions; Parametric*

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methods for comparing two survival distribution; Identification of prognostic factors related to survival time; Identification of risk factors related to dichotomous data; Planning and design of clinical

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*trials (I); Planning and
design of clinicL
trials(II).*

*Informal and nontechnical,
this book both explains the
theory behind logistic
regression, and looks at all
the practical details*

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*involved in its
implementation using SAS.
Includes several real-world
examples in full detail.
Statistical Methods for
Survival Data Analysis
Dynamic Prediction in
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scientists. "The book is a valuable completion of the literature in this field. It is written in an ambitious mathematical style and can berecommended to statisticians as well as biostatisticians." -Biometrische Zeitschrift "Not many books manage

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to combine convincingly topics from probability theory over mathematical statistics to applied statistics. This is one of them. The book has other strong points to recommend it: it is written with meticulous care, in a lucid style,

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general results being illustrated by examples from statistical theory and practice, and a bunch of exercises serve to further elucidate and elaborate on the text." -Mathematical Reviews "This book gives a thorough introduction to martingale and

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counting process methods in survival analysis thereby filling a gap in the literature." -Zentralblatt für Mathematik und ihre Grenzgebiete/Mathematics Abstracts
"The authors have performed a valuable service to researchers

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inproviding this material in [a] self-contained and accessible form.. . This text [is] essential reading for the probabilist or mathematical statistician working in the area of survival analysis." -Short Book Reviews, International Statistical

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Institute Counting Processes and Survival Analysis explores the martingale approach to the statistical analysis of counting processes, with an emphasis on the application of those methods to censored failure time data. This approach has proven

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remarkably successful in yielding results about statistical methods for many problems arising in censored data. A thorough treatment of the calculus of martingales as well as the most important applications of these methods to censored data is

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offered. Additionally, the book examines classical problems in asymptotic distribution theory for counting process methods and newer methods for graphical analysis and diagnostics of censored data. Exercises are included to

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*provide practice in applying
martingale methods and insight into
the calculus itself.*

*Handbook of Survival Analysis
presents modern techniques and
research problems in lifetime data
analysis. This area of statistics deals*

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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

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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

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*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*

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*analyzing survival data experiments
for practicing statisticians*

*Making complex methods more
accessible to applied researchers
without an advanced mathematical
background, the authors present the
essence of new techniques available,*

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as well as classical techniques, and apply them to data. Practical suggestions for implementing the various methods are set off in a series of practical notes at the end of each section, while technical details of the derivation of the techniques are

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sketched in the technical notes. This book will thus be useful for investigators who need to analyse censored or truncated life time data, and as a textbook for a graduate course in survival analysis, the only prerequisite being a standard course

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in statistical methodology.

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.

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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

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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*

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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

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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. Arnošt Komárek is associate professor of statistics at Charles University, Prague. His subject area of expertise

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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

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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

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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.

Competing Risks

Clinical Statistics: Introducing

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*Clinical Trials, Survival Analysis, and
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Theory and Application, Second
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Techniques for Censored and
Truncated Data
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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

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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,

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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

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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

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coming to the subject for the first time.

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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

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analysis of clinical trials. Arnošt Komárek 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

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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

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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,

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comprehensive account of the field. The value of survival analysis is not confined to medical statistics, where the benefit of the analysis of data on such factors as life expectancy and duration of periods of freedom from

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symptoms of a disease as related to a treatment applied individual histories and so on, is obvious. The techniques also find important applications in industrial life testing and a range of subjects from

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*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*

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*of an individual or a group
of related individuals.
Frailty Models in Survival
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comprehensive overview of
the fundamental approaches
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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

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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.

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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

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