



1st ed. 2016, X, 247 p. 58 illus., 3 illus. in color.

Printed book

Hardcover

69,99 € | £62.99 | \$89.99

^[1]74,89 € (D) | 76,99 € (A) | CHF

93,59

Softcover

69,99 € | £62.99 | \$89.99

^[1]74,89 € (D) | 76,99 € (A) | CHF

93,59

eBook

58,84 € | £49.99 | \$69.99

^[2]58,84 € (D) | 58,84 € (A) | CHF

74,50

Available from your library or
springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Gerhard Tutz, Matthias Schmid

Modeling Discrete Time-to-Event Data

Series: Springer Series in Statistics

- Provides the first comprehensive overview of statistical methods for discrete failure times
- Contains numerous examples and exercises that illustrate the presented methods
- Introduces novel methodology for model selection, nonparametric estimation and model evaluation that is new in the context of discrete failure analysis
- Reproducible data through freely available R codes

This book focuses on statistical methods for the analysis of discrete failure times. Failure time analysis is one of the most important fields in statistical research, with applications affecting a wide range of disciplines, in particular, demography, econometrics, epidemiology and clinical research. Although there are a large variety of statistical methods for failure time analysis, many techniques are designed for failure times that are measured on a continuous scale. In empirical studies, however, failure times are often discrete, either because they have been measured in intervals (e.g., quarterly or yearly) or because they have been rounded or grouped. The book covers well-established methods like life-table analysis and discrete hazard regression models, but also introduces state-of-the art techniques for model evaluation, nonparametric estimation and variable selection. Throughout, the methods are illustrated by real life applications, and relationships to survival analysis in continuous time are explained. Each section includes a set of exercises on the respective topics. Various functions and tools for the analysis of discrete survival data are collected in the R package *discSurv* that accompanies the book.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

