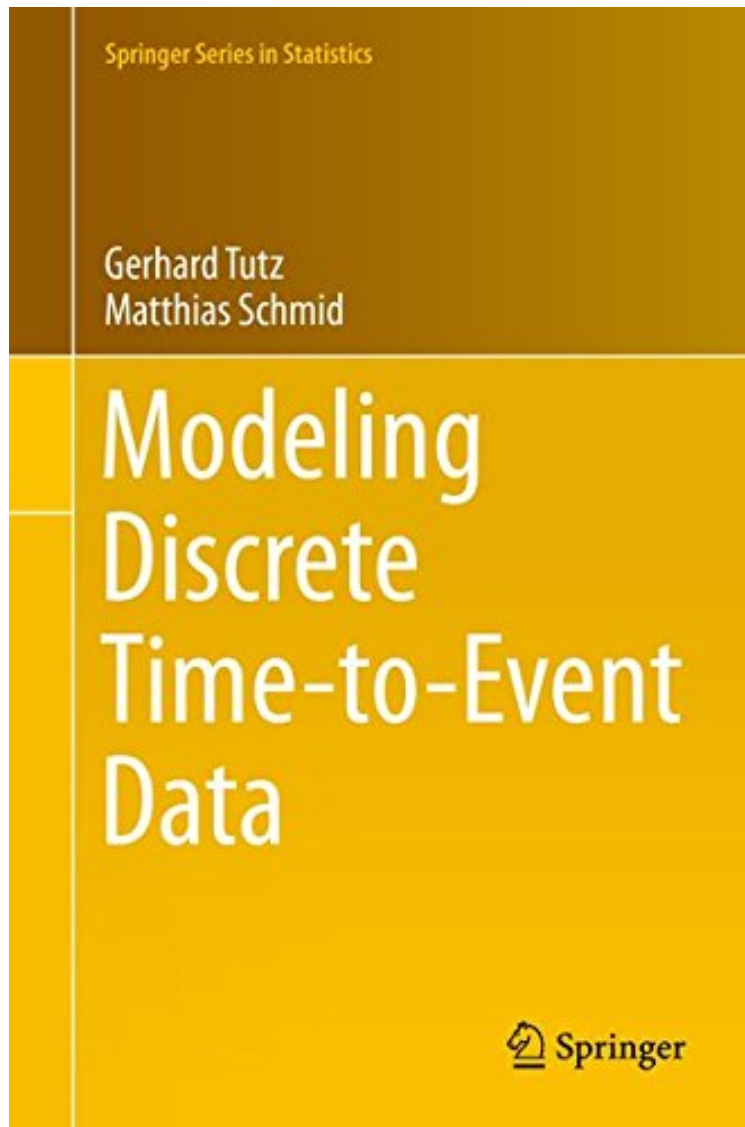


[Free] Modeling Discrete Time-to-Event Data (Springer Series in Statistics)

Modeling Discrete Time-to-Event Data (Springer Series in Statistics)

Gerhard Tutz, Matthias Schmid

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Gerhard Tutz, Matthias Schmid : Modeling Discrete Time-to-Event Data (Springer Series in Statistics) before purchasing it in order to gauge whether or not it would be worth my time, and all praised Modeling Discrete Time-to-Event Data (Springer Series in Statistics):

0 of 0 people found the following review helpful. Good text to introduce concepts of discrete time-to-event analyses and ...By Customer Good text to introduce concepts of discrete time-to-event analyses and some relevant applications. The book includes some useful introduction to discrete time analyses, and more generally survival analysis, but also

some more specific applications (e.g. competing risks, multiple-spell analysis). Was hoping for R code to be included in the text, although the book does reference useful R packages for performing each type of analysis, and includes example analyses (including datasets and results) in each chapter which can be replicated by the reader.

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.

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About the Author Gerhard Tutz is a professor of statistics at the Department of Statistics at the University of Munich. He has published several books with Springer. Matthias Schmid is a professor of Medical Biometry, Informatics and Epidemiology at the University of Bonn. He received his diploma (2004) and his Ph.D. (2007) in statistics at the University of Munich and his habilitation (2012) in biostatistics at the University of Erlangen. Before working in Bonn, he was professor of computational statistics at the Department of Statistics at the University of Munich (2013-2014).