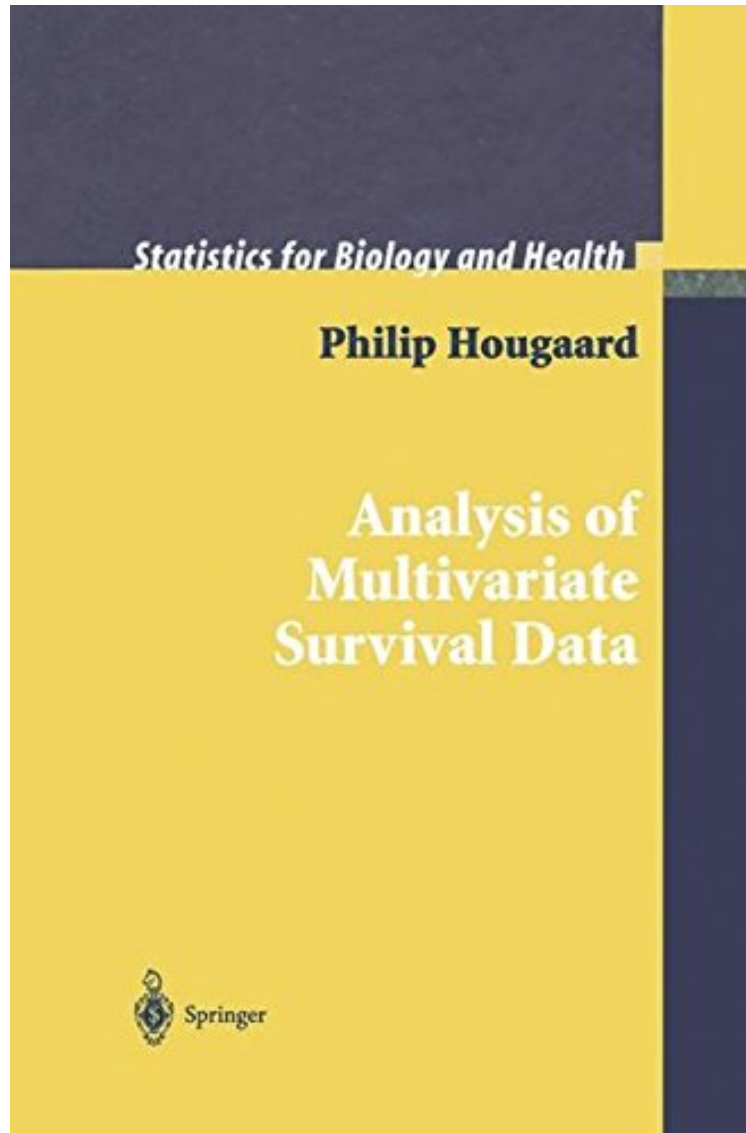


(Download pdf) Analysis of Multivariate Survival Data (Statistics for Biology and Health)

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Philip Hougaard

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#3547573 in Books Philip Hougaard 2012-09-27 2013-10-04Original language:EnglishPDF # 1 9.25 x 1.28 x 6.10l, 1.72 #File Name: 1461270871542 pagesAnalysis of Multivariate Survival Data Statistics for Biology and Health | File size: 59.Mb

Philip Hougaard : Analysis of Multivariate Survival Data (Statistics for Biology and Health) before purchasing it in order to gage whether or not it would be worth my time, and all praised Analysis of Multivariate Survival Data (Statistics for Biology and Health):

31 of 31 people found the following review helpful. first and excellent treatment of a key topic in pharmaceuticals multivariate survivalBy Michael R. ChernickThe author is one of the pioneers in the newly developing field of multivariate survival analysis. His work goes back to his Ph.D. dissertation in the mid 1980s. These methods come into play when one is studying more than one survival curve and the event times are correlated rather than independent. Practical applications include situations when multiple events are studied on the same patients, such as time until contracting the disease, followed by time to complications and then possibly by time to death from the disease. Studies involving events related to twins can also be analyzed by these methods.He gives an excellent exposition and a number of good examples. He provides the reader with a very current list of references from the literature.The author presents the four common approaches to the problem and concedes that the field is in its infancy. He believes that while some of the methods described will prove not to be as fruitful as others, at this point it is still difficult to determine which are the most promising. His aim is to expand the toolbox for researchers in medical and biological fields who have experience with univariate survival analysis and may be faced with multivariate problems. He covers such important current topics as frailty models and competing risks.In my opinion the author has succeeded in his goal and provided biostatisticians with a reference source that will be useful to them for many years. It should not be your first book in survival analysis though. See the book by Lawless or Kalbfleish and Prentice before attaching this book.0 of 5 people found the following review helpful. Three StarsBy Fidel Ulin-MontejoGood!

Survival data or more general time-to-event data occur in many areas, including medicine, biology, engineering, economics, and demography, but previously standard methods have requested that all time variables are univariate and independent. This book extends the field by allowing for multivariate times. As the field is rather new, the concepts and the possible types of data are described in detail. Four different approaches to the analysis of such data are presented from an applied point of view.

From the reviews: STATISTICAL METHODS IN MEDICAL RESEARCH "Overall, I found the book to be very useful I think that this book will be useful to statisticians who are dealing with modeling multivariate failure time data in their applied work. In addition it is a good reference to the technical literature available in this field." SHORT BOOK REVIEWS "This book, however, is much more than a compendium of useful models for survival data. The author's discussion of time scales, the effect of censoring and the role of covariates touch the very heart of survival analysis. His insights into the nature of dependence extend far beyond survival analysis and touch some of the most fundamental aspects of our discipline." STATISTICS IN MEDICINE "The book is written with succinct style, containing lots of information but no unnecessary detail or technicality, meaning that it is easy to follow the discussion and arguments, provided the reader has some background in standard univariate survival techniques. Adequate up-to-date references are provided for interested readers to follow up if required. The level of mathematical detail is niceI believe this to be the first book on multivariate survival. Anyone considering writing the second book has a hard act to follow this sets a very high standard and is recommended for all statisticians with an interest in survival analysis techniques." JASA "There is no doubt that this book is an important contribution to the literature of multivariate survival analysis. Unlike other books on survival, most of which have just one or two chapters dealing with multivariate material, this book is the first comprehensive treatment fully focusing on multivariate survival dataThis book is a long-awaited work that summarizes the state of the art of multivariate survival analysis and provides a valuable reference." "This is the first book exclusively on Analysis of Multivariate Survival Data. this is a good reference book . The aim of the book is very clearly laid down. The exercises at the end of each chapter makes it more useful . The chapter summary and bibliographic comments are also very useful. The computational aspects are also helpful." (Anup Dewanji, Sankhya, Vol. 65 (1), 2002) "This is a book on a subject which is at its infancy written by an author who contributed mainly to its definition and development. It should be read as a tour d'horizon about approaches that have been suggested about how to analyze multivariate survival . This book is without any doubt an indispensable reading for both theoretical and practical statisticians. In fact, this book will be most interesting for professional statisticians advancing to this field." (Jochen Mau, Metrika, November, 2002) "Hougaard has written a very complete book on multivariate survival analysis of over 500 pages. Every chapter contains a set of exercises suitable to practice . citations to about 200 references are made throughout the book. The book is a pleasure to read. Every chapter contains an extensive summary which is very helpful to have a good overview of a particular chapter. In my opinion the author has succeeded in completing a valuable monograph on multivariate survival analysis." (P.H.A.J.M. van Gelder, Kwantitatieve Methoden, Issue 2, October, 2002) "The author distinguishes six types of dependence in multivariate survival data . Throughout the book theoretical developments are extensively exemplified by real-life examples and computational aspects are dealt with as well. A commendable feature is that each of the chapters starts with an intuitional introduction and ends with a brief summary section, bibliographic comments and exercises. " (Harald Heinzl, Zentralblatt MATH, Vol. 962, 2001) "This book is for those wishing to analyse multivariate survival data. One of the most useful aspects of this book, in my opinion, is the extensive use made of practical examples. There are exercises at the end of each chapter. The organization of the book, and the good use of

cross referencing, mean that it can be read in varying degrees of depth. This book should prove an informative extension to the literature on survival analysis." (Kate Tilling, *International Journal of Epidemiology*, Vol. 30 (4), 2001)