Multistate Analysis of Life Histories with R (Use R!)

Frans Willekens
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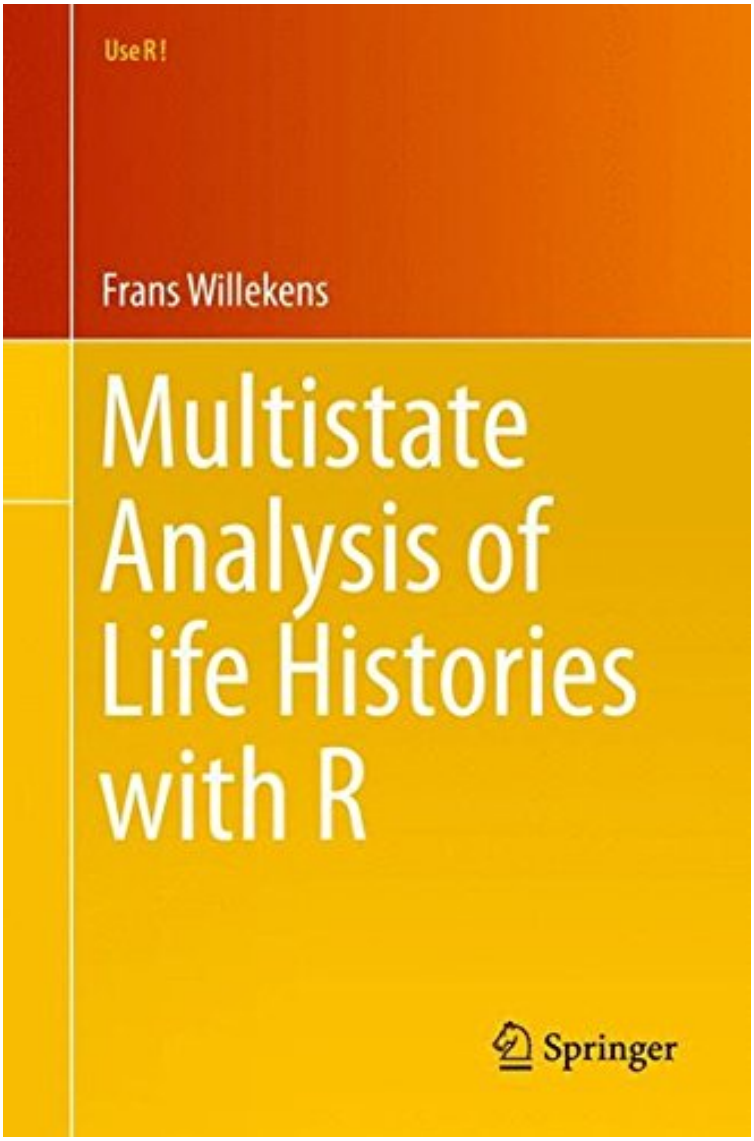

#1133750 in Books Frans Willekens 2014-09-12 2014-10-14Original language:EnglishPDF # 1 9.26 x .78 x 6.11l, .0 #File Name: 3319083821308 pagesMultistate Analysis of Life Histories with R Use R | File size: 38.Mb

Frans Willekens : Multistate Analysis of Life Histories with R (Use R!) before purchasing it in order to gage whether or not it would be worth my time, and all praised Multistate Analysis of Life Histories with R (Use R!):

1 of 1 people found the following review helpful. MehBy Dimitri ShvorobI am sorry, I know this isn't constructive criticism, but can I just say - this plain, plodding book really did not "sell" me on multistate analysis of life histories, or on the Biograph R package, whose discussion accounts for much of its page count. This (Springer-standard) spartan

style may have been OK in the 1990s, but these days I am looking for a little more value-added, in both content and presentation. I suppose the book is a must-have if you are already interested in Biograph, but if you want to know more about the relevant statistics, EDA/visualization, and alternative R packages (which, to be fair, *are* discussed in this book - just not as well as I would like), I would suggest looking elsewhere.

This book provides an introduction to multistate event history analysis. It is an extension of survival analysis, in which a single terminal event (endpoint) is considered and the time-to-event is studied. Multistate models focus on life histories or trajectories, conceptualized as sequences of states and sequences of transitions between states. Life histories are modeled as realizations of continuous-time Markov processes. The model parameters, transition rates, are estimated from data on event counts and populations at risk, using the statistical theory of counting processes. The Comprehensive R Network Archive (CRAN) includes several packages for multistate modeling. This book is about Biograph. The package is designed to (a) enhance exploratory analysis of life histories and (b) make multistate modeling accessible. The package incorporates utilities that connect to several packages for multistate modeling, including survival, eha, Epi, mvna

The book is largely built around a description of population change as a set of life histories, viewed as the realization of stochastic processes. This book is a very nice addition to the many other important methodological contributions made by Frans Willekens and I recommend that it be read by all demographers . (David A. Swanson, Canadian Studies in Population, Vol. 42 (3-4), 2015)This book is about pragmatic analysis of life histories using a selection of packages for statistical programming language R. I recommend the book for everyone interested in pragmatic analyses of life histories with R. successfully provides a well-justified selection of useful methods with (now) well-documented tools for pragmatic analyses of multistate life histories. (Reijo Sund, International Statistical , Vol. 83 (2), 2015)From the Back CoverThis book providesan introduction to multistate event history analysis. It is an extension of survival analysis, in which a single terminal event (endpoint) is considered and the time-to-event is studied. Multistate models focus on life histories or trajectories, conceptualized as sequences of states and sequences of transitions between states. Life histories are modeled as realizations of continuous-time Markov processes. The model parameters, transition rates, are estimated from data on event counts and populations at risk, using the statistical theory of counting processes. The Comprehensive R Network Archive (CRAN) includes several packages for multistate modeling. This book is about Biograph. The package is designed to (a) enhance exploratory analysis of life histories and (b) make multistate modeling accessible. The package incorporates utilities that connect to several packages for multistate modeling, including survival, eha, Epi, mvna