Disease Mapping with WinBUGS and MLwiN

Andrew B. Lawson, William J. Browne, Carmen L. Vidal Rodeiro
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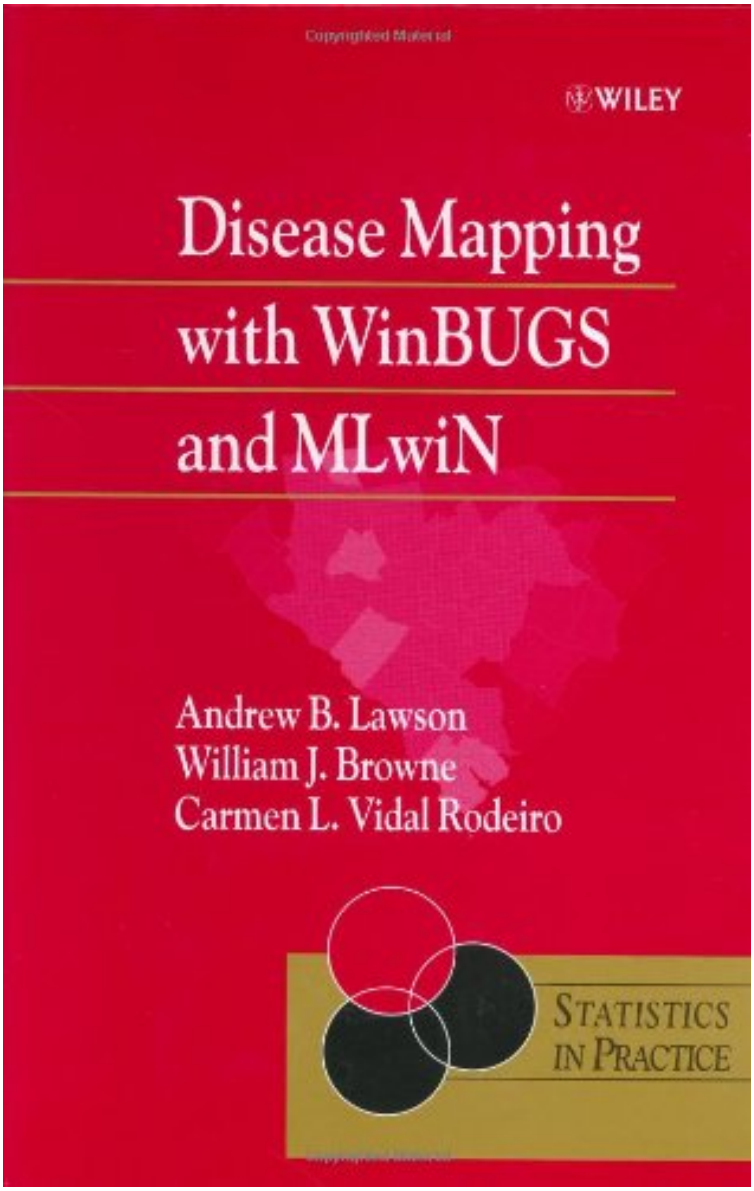

#2762109 in Books Lawson 2003-09-12Original language:EnglishPDF # 1 9.06 x .85 x 6.38l, 1.19 #File Name: 0470856041296 pagesDisease Mapping with WinBUGS and MLwiN | File size: 38.Mb

Andrew B. Lawson, William J. Browne, Carmen L. Vidal Rodeiro : Disease Mapping with WinBUGS and MLwiN before purchasing it in order to gage whether or not it would be worth my time, and all praised Disease Mapping with WinBUGS and MLwiN:

Disease mapping involves the analysis of geo-referenced disease incidence data and has many applications, for example within resource allocation, cluster alarm analysis, and ecological studies. There is a real need amongst public health workers for simpler and more efficient tools for the analysis of geo-referenced disease incidence data. Bayesian and multilevel methods provide the required efficiency, and with the emergence of software packages such as WinBUGS and MLwiN are now easy to implement in practice. Provides an introduction to Bayesian and multilevel modelling in disease mapping. Adopts a practical approach, with many detailed worked examples. Includes introductory material on WinBUGS and MLwiN. Discusses three applications in detail relative risk estimation, focused clustering, and ecological analysis. Suitable for public health workers and epidemiologists with a sound statistical knowledge. Supported by a Website featuring data sets and WinBUGS and MLwiN programs. Disease Mapping with WinBUGS and MLwiN provides a practical introduction to the use of software for disease mapping for researchers, practitioners and graduate students from statistics, public health and epidemiology who analyse disease incidence data.

"written at a level that will be readily accessible to anyone with a modest background in applied statistics." (Technometrics, February 2005) "The book certainly is a nice addition to my disease mapping books. The book is equally useful for the undergraduate and graduate students as well as public health professionals. (E-STREAMS, July 2004) a good guide and a useful addition for any graduate statistician or epidemiologist (Statistical Methods in Medical Research, No.13 2004) "...outlines the models used in statistical disease mapping, and gives details of how the models can be implemented using two packages..." (Short Book s, Vol.24, No.3) "Readers will greatly profit from this book" (International Society of Clinical Biostatistics Dec 2005)From the Back CoverDisease mapping involves the analysis of geo-referenced disease incidence data and has many applications, for example within resource allocation, cluster alarm analysis, and ecological studies. There is a real need amongst public health workers for simpler and more efficient tools for the analysis of geo-referenced disease incidence data. Bayesian and multilevel methods provide the required efficiency, and with the emergence of software packages ? such as WinBUGS and MLwiN ? are now easy to implement in practice. Provides an introduction to Bayesian and multilevel modelling in disease mapping. Adopts a practical approach, with many detailed worked examples. Includes introductory material on WinBUGS and MLwiN. Discusses three applications in detail ? relative risk estimation, focused clustering, and ecological analysis. Suitable for public health workers and epidemiologists with a sound statistical knowledge. Supported by a Website featuring data sets and WinBUGS and MLwiN programs. Disease Mapping with WinBUGS and MLwiN provides a practical introduction to the use of software for disease mapping for researchers, practitioners and graduate students from statistics, public health and epidemiology who analyse disease incidence data.