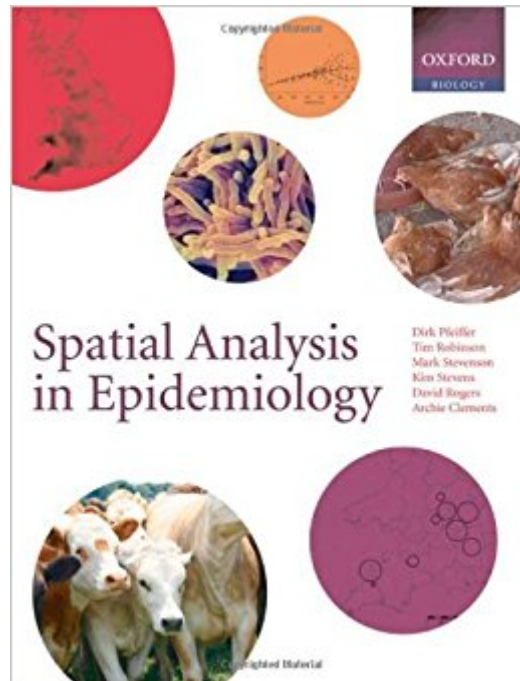




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# Spatial Analysis In Epidemiology



## Synopsis

This book provides a practical, comprehensive and up-to-date overview of the use of spatial statistics in epidemiology - the study of the incidence and distribution of diseases. Used appropriately, spatial analytical methods in conjunction with GIS and remotely sensed data can provide significant insights into the biological patterns and processes that underlie disease transmission. In turn, these can be used to understand and predict disease prevalence. This user-friendly text brings together the specialised and widely-dispersed literature on spatial analysis to make these methodological tools accessible to epidemiologists for the first time. With its focus on application rather than theory, *Spatial Analysis in Epidemiology* includes a wide range of examples taken from both medical (human) and veterinary (animal) disciplines, and describes both infectious diseases and non-infectious conditions. Furthermore, it provides worked examples of methodologies using a single data set from the same disease example throughout, and is structured to follow the logical sequence of description of spatial data, visualisation, exploration, modelling and decision support. This accessible text is aimed at graduate students and researchers dealing with spatial data in the fields of epidemiology (both medical and veterinary), ecology, zoology and parasitology, environmental science, geography and statistics

## Book Information

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## Customer Reviews

The Preface to this book says that "... a basic understanding of epidemiology and statistics is assumed." If you think that basis statistics = a one year course, you would be quite wrong. Just looking at the beginning of the book's index, you would find: additive logistic model, Akaike's information criterion, autoregressive model, Breusch-Pagan test, discriminant analysis, empirical Bayes, and Fourier processing. None of these concepts is explained. indicates that this book contains 209 pages. Readers should be aware, however, that there are only 119 pages of actual text. I was stunned when I received the book. After paying over \$40, it seemed overly expensive. These caveats aside, the book is pretty well written, although with a skew toward veterinary rather than human epidemiological concerns.

A very good book and very easy to read. It is a good introduction to spatial analysis, statistic is exhaustive although somewhat superficial, and the examples are good. Black and white maps are a problem during reading, although this was solved with the same maps in color in the middle of the book. I am interested in the spatial analysis of the diagnostic lab data and the book has been a good help.

THIS BOOK HAS OPENED MY MIND TO A NEW AND BETTER WAY OF ANALYZING MASSIVE DATA ON HEALTH ISSUES AND SPACE. IT SHOWS HOW MUCH GIS CAN DO FOR HEALTH SCIENCE AS WELL AS WHAT IT CANNOT DO. HEALTH PLANNERS WILL FIND THE METHODOLOGIES PRESENTED IN THIS BOOK THE BEST SHORTCUT FOR MAKING CONCLUSIONS ON THE RELATIONSHIPS BETWEEN ENVIRONMENT AND HEALTH IN A GIVEN PLACE.

Pretty good so far. It's good for mathematical lay people like me

This book includes more types of spatial analyses than I have previously seen under one roof, so to speak. However, it does not cover any analyses in detail, nor does it provide any worked examples! As a consequence, this book is not appropriate for those who are new to spatial stats or who need some practical experience with them. For practitioners who are already familiar with basic spatial analyses (e.g. Moran's I, semivariance), then the book offers some related methods and does a

nice job of concisely summarizing and comparing different tests.

This book is a great start to the topic of spatial epidemiology. We read it as a required text for a Masters in Epi Geospatial Epidemiology course. The first couple of chapters are great, but the statistical definitions of some concepts are too vague for a researcher learning to apply new methods.

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