Statistical Methods in Spatial Epidemiology

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Spatial epidemiology is the description and analysis of the geographical distribution of disease. It is more important now than ever, with modern threats such as bio-terrorism making such analysis even more complex. This second edition of *Statistical Methods in Spatial Epidemiology* is updated and expanded to offer a complete coverage of the analysis and application of spatial statistical methods. The book is divided into two main sections: Part 1 introduces basic definitions and terminology, along with map construction and some basic models. This is expanded upon in Part II by applying this knowledge to the fundamental problems within spatial epidemiology, such as *disease mapping*, *ecological analysis*, *disease clustering*, *bio-terrorism*, *space-time analysis*, *surveillance* and *infectious disease modelling*.

- Provides a comprehensive overview of the main statistical methods used in spatial epidemiology.
- Updated to include a new emphasis on bio-terrorism and disease surveillance.
- Emphasizes the importance of space-time modelling and outlines the practical application of the method.
- Discusses the wide range of software available for analyzing spatial data, including WinBUGS, SaTScan and R, and features an accompanying website hosting related software.
- Contains numerous data sets, each representing a different approach to the analysis, and provides an insight into various modelling techniques.

This text is primarily aimed at medical statisticians, researchers and practitioners from public health and epidemiology. It is also suitable for postgraduate students of statistics and epidemiology, as well professionals working in government agencies.

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