<<Statistical Methods>>

<<Statistical Methods in Spatial Epidemiology   2   >>

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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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