

<<Statistical Methods >>

图书基本信息

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### 内容概要

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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书籍目录

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