



Bayesian Disease Mapping: Hierarchical Modeling in Spatial Epidemiology (Chapman & Hall/CRC Interdisciplinary Statistics)

Andrew B. Lawson

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Focusing on data commonly found in public health databases and clinical settings, **Bayesian Disease Mapping: Hierarchical Modeling in Spatial Epidemiology** provides an overview of the main areas of Bayesian hierarchical modeling and its application to the geographical analysis of disease.

The book explores a range of topics in Bayesian inference and modeling, including Markov chain Monte Carlo methods, Gibbs sampling, the Metropolis–Hastings algorithm, goodness-of-fit measures, and residual diagnostics. It also focuses on special topics, such as cluster detection; space-time modeling; and multivariate, survival, and longitudinal analyses. The author explains how to apply these methods to disease mapping using numerous real-world data sets pertaining to cancer, asthma, epilepsy, foot and mouth disease, influenza, and other diseases. In the appendices, he shows how R and WinBUGS can be useful tools in data manipulation and simulation.

Applying Bayesian methods to the modeling of georeferenced health data, **Bayesian Disease Mapping** proves that the application of these approaches to biostatistical problems can yield important insights into data.

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