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Nota di contenuto	Spatial Analysis along Networks: Statistical and Computational Methods; Contents; Preface; Acknowledgements; 1 Introduction; 1.1 What is network spatial analysis?; 1.1.1 Network events: events on and alongside networks; 1.1.2 Planar spatial analysis and its limitations; 1.1.3 Network spatial analysis and its salient features; 1.2 Review of studies of network events; 1.2.1 Snow's study of cholera around Broad Street; 1.2.2 Traffic accidents; 1.2.3 Roadkills; 1.2.4 Street crime; 1.2.5 Events on river networks and coastlines; 1.2.6 Other events on networks; 1.2.7 Events alongside networks 1.3 Outline of the book 1.3.1 Structure of chapters; 1.3.2 Questions solved by network spatial methods; 1.3.3 How to study this book; 2 Modeling spatial events on and alongside networks; 2.1 Modeling the real world; 2.1.1 Object-based model; 2.1.1.1 Spatial attributes; 2.1.1.2 Nonspatial attributes; 2.1.2 Field-based model; 2.1.3 Vector data model; 2.1.4 Raster data model; 2.2 Modeling networks; 2.2.1 Object-based model for networks; 2.2.1.1 Geometric networks; 2.2.1.2 Graph for a geometric network; 2.2.2 Field-based model for networks;

Sommario/riassunto

In the real world, there are numerous and various events that occur on and alongside networks, including the occurrence of traffic accidents on highways, the location of stores alongside roads, the incidence of crime on streets and the contamination along rivers. In order to carry out analyses of those events, the researcher needs to be familiar with a range of specific techniques. Spatial Analysis Along Networks provides a practical guide to the necessary statistical techniques and their computational implementation. Each chapter illustrates a specific technique, from Stochastic Point Process