1.	Record Nr.	UNINA9910830962403321
	Autore	Lawson Andrew (Andrew B.)
	Titolo	Statistical methods in spatial epidemiology / / Andrew B. Lawson
	Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ : , : Wiley, , [2006]
	ISBN	1-118-72317-1
		0-470-03577-3
		0-470-03578-1
	Edizione	[Second edition.]
	Descrizione fisica	1 online resource (424 pages)
	Collana	Wiley series in probability and statistics
	Disciplina	614.4
		614.42
	Soggetti	Epidemiology - Statistical methods
		Medical geography - Statistical methods
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references (pages 367-388) and index.
	Nota di contenuto	""Title Page ""; ""Contents""; ""Preface and Acknowledgements to Second Edition""; ""Preface and Acknowledgements""; ""I The Nature of Spatial Epidemiology ""; ""1 Definitions, Terminology and Data Sets ""; ""1.1 Map Hypotheses and Modelling Approaches""; ""1.2 Definitions and Data Examples""; ""1.2.1 Case event data""; ""1.2.2 Count data""; ""1.3 Further Definitions""; ""1.3.1 Control events and processes""; ""1.3.2 Census tract information""; ""1.3.3 Clustering definitions""; ""1.4 Some Data Examples""; ""1.4.1 Case event examples""; ""1.4.2 Count data examples""
		""2 Scales of Measurement and Data Availability """"2.1 Small Scale""; ""2.2 Large Scale""; ""2.3 Rate Dependence""; ""2.4 Data Quality and the Ecological Fallacy""; ""2.5 Edge Effects""; ""3 Geographical Representation and Mapping ""; ""3.1 Introduction and Definitions""; ""3.2 Maps and Mapping""; ""3.2.1 Statistical maps and mapping""; ""3.2.2 Object process mapping""; ""3.2.3 Geostatistical mapping""; ""3.3 Statistical Accuracy""; ""3.4 Aggregation""; ""3.5 Mapping Issues Related to Aggregated Data""; ""3.6 Conclusions""; ""4 Basic Models ""; ""4.1 Sampling Considerations""
		""4.2 Likelihood-Based and Bayesian Approaches""""4.3 Point Event Models""; ""4.3.1 Point process models and applications""; ""4.3.2 The

Sommario/riassunto	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.