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| 1. Record Nr.           | UNINA9910450000103321   |
| Autore                  | Haining Robert P.   |
| Titolo                  | Spatial data analysis : theory and practice / / Robert Haining [[electronic resource]]  |
| Pubbl/distr/stampa      | Cambridge : , : Cambridge University Press, , 2003  |
| ISBN                    | 1-107-12886-2<br>0-511-04085-7<br>1-280-42954-2<br>9786610429547<br>0-511-17843-3<br>0-511-14880-1<br>0-511-32370-0<br>0-511-75494-9<br>0-511-04986-2   |
| Descrizione fisica      | 1 online resource (xx, 432 pages) : digital, PDF file(s)  |
| Disciplina              | 001.4/22  |
| Soggetti                | Spatial analysis (Statistics)<br>Geology - Statistical methods - Data processing  |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Title from publisher's bibliographic system (viewed on 05 Oct 2015).  |
| Nota di bibliografia    | Includes bibliographical references (p. 394-423) and index.   |
| Nota di contenuto       | Cover; Half-title; Title; Copyright; Dedication; Contents; Preface; Readership; Acknowledgements; Copyright acknowledgements; Introduction; 0.1 About the book; 0.2 What is spatial data analysis?; 0.3 Motivation for the book; 0.4 Organization; 0.5 The spatial data matrix; Part A The context for spatial data analysis; 1 Spatial data analysis: scientific and policy context; 2 The nature of spatial data; Part B Spatial data: obtaining data and quality issues; 3 Obtaining spatial data through sampling; 4 Data quality: implications for spatial data analysis Part C The exploratory analysis of spatial data5 Exploratory spatial data analysis: conceptual models; 6 Exploratory spatial data analysis: visualization methods; 7 Exploratory spatial data analysis: numerical methods; Part D Hypothesis testing and spatial autocorrelation; 8 Hypothesis testing in the presence of spatial dependence; Part E Modelling spatial data; 9 Models for the statistical analysis of spatial |

data; 10 Statistical modelling of spatial variation: descriptive modelling;  
11 Statistical modelling of spatial variation: explanatory modelling;  
Appendix I Software  
Appendix II Cambridgeshire lung cancer data (observed and expected  
counts and ward neighbours)Appendix III Sheffield burglary data;  
Appendix III Sheffield burglary data; Appendix IV Children excluded  
from school: Sheffield; References; Index

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## Sommario/riassunto

Spatial Data Analysis: Theory and Practice, first published in 2003, provides a broad ranging treatment of the field of spatial data analysis. It begins with an overview of spatial data analysis and the importance of location (place, context and space) in scientific and policy related research. Covering fundamental problems concerning how attributes in geographical space are represented to the latest methods of exploratory spatial data analysis and spatial modeling, it is designed to take the reader through the key areas that underpin the analysis of spatial data, providing a platform from which to view and critically appreciate many of the key areas of the field. Parts of the text are accessible to undergraduate and master's level students, but it also contains sufficient challenging material that it will be of interest to geographers, social and economic scientists, environmental scientists and statisticians, whose research takes them into the area of spatial analysis.

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