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Autore	Chandler R. E (Richard E.)
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Sulphur Dioxide Pollution in Europe; 7.1 Introduction; 7.2 Additive Models with Correlated Errors; 7.3 Models for the SO₂ Data; 7.4 Conclusions; 7.5 Acknowledgement; References; Chapter 8: Rainfall Trends in Southwest Western Australia; 8.1 Motivation; 8.2 The Study Region; 8.3 Data Used in the Study; 8.4 Modelling Methodology; 8.5 Results; 8.6 Summary and Conclusions; References
Chapter 9: Estimation of Common Trends for Trophic Index Series9.1 Introduction; 9.2 Data Exploration; 9.3 Common Trends and Additive Modelling; 9.4 Dynamic Factor Analysis to Estimate Common Trends; 9.5 Discussion; 9.6 Acknowledgement; References; Chapter 10: A Space-Time Study on Forest Health; 10.1 Forest Health: Survey and Data; 10.2 Regression Models for Longitudinal Data with Ordinal Responses; 10.3 Spatiotemporal Models; 10.4 Spatiotemporal Modelling and Analysis of Forest Health Data; 10.5 Acknowledgements; References; Index; Statistics in Practice

Sommario/riassunto

"Statistical methodology itself has made some significant developments in areas that are highly relevant to the problems faced by environmentalists; thus this book fills a gap in the market in which there is currently a lot of interest. Split into two parts, part 1 - Theory and methods - introduces the basis for and scope of the book, and covers amongst others the chief topics of exploratory analysis, non-parametric estimation and testing, and parametric modeling. Part 2 - Case Studies - introduces a number of co-authors, specialists in their own areas of environmental science, to illustrate the application of the theory and methods in practice. The accompanying website develops the practical aspects raised in the book, and provides a useful complementary tool."--Provided by publisher.
