

1. Record Nr.	UNINA9910800166303321
Autore	Acevedo Miguel F.
Titolo	Data analysis and statistics for geography, environmental science, and engineering // by Miguel F. Acevedo
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012
ISBN	0-429-16914-0
Edizione	[1st edition]
Descrizione fisica	1 online resource (549 p.)
Disciplina	519.5
Soggetti	Geography - Data processing Geography - Statistical methods Environmental sciences - Data processing Environmental sciences - Statistical methods Engineering - Data processing Engineering - 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.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Author; Chapter 1 - Introduction; Chapter 2 - Probability Theory; Chapter 3 - Random Variables, Distributions, Moments, and Statistics; Chapter 4 - Exploratory Analysis and Introduction to Inferential Statistics; Chapter 5 - More on Inferential Statistics: Goodness of Fit, Contingency Analysis, and Analysis of Variance; Chapter 6 - Regression; Chapter 7 - Stochastic or Random Processes and Time Series; Chapter 8 - Spatial Point Patterns; Chapter 9 - Matrices and Linear Algebra; Chapter 10 - Multivariate Models Chapter 11 - Dependent Stochastic Processes and Time Series Chapter 12 - Geostatistics: Kriging; Chapter 13 - Spatial Auto-Correlation and Auto-Regression; Chapter 14 - Multivariate Analysis I: Reducing Dimensionality; Chapter 15 - Multivariate Analysis II: Identifying and Developing Relationships among Observations and Variables; Bibliography; Back Cover
Sommario/riassunto	Providing a solid foundation for twenty-first-century scientists and engineers, Data Analysis and Statistics for Geography, Environmental Science, and Engineering guides readers in learning quantitative

methodology, including how to implement data analysis methods using open-source software. Given the importance of interdisciplinary work in sustainability, the book brings together principles of statistics and probability, multivariate analysis, and spatial analysis methods applicable across a variety of science and engineering disciplines.
