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| Nota di contenuto       | Statistics for Earth and Environmental Scientists; Contents; Preface; 1 Role of Statistics and Data Analysis; 1.1 INTRODUCTION; 1.2 CASE STUDIES; 1.3 DATA; 1.4 SAMPLES VERSUS THE POPULATION: SOME NOTATION; 1.5 VECTOR AND MATRIX NOTATION; 1.6 FREQUENCY DISTRIBUTIONS AND HISTOGRAMS; 1.7 DISTRIBUTION AS A MODEL; 1.8 SAMPLE MOMENTS; 1.9 NORMAL (GAUSSIAN) DISTRIBUTION; 1.10 EXPLORATORY DATA ANALYSIS; 1.11 ESTIMATION; 1.12 BIAS; 1.13 CAUSES OF VARIANCE; 1.14 ABOUT DATA; 1.15 REASONS TO CONDUCT STATISTICALLY BASED STUDIES; 1.16 DATA MINING; 1.17 MODELING; 1.18 TRANSFORMATIONS<br>1.19 STATISTICAL CONCEPTS<br>1.20 STATISTICS PARADIGMS; 1.21 SUMMARY; EXERCISES; 2 Modeling Concepts; 2.1 INTRODUCTION; 2.2 |

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10.3 SPHERICAL DATA

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#### Sommario/riassunto

A comprehensive treatment of statistical applications for solving real-world environmental problems. A host of complex problems face today's earth science community, such as evaluating the supply of remaining non-renewable energy resources, assessing the impact of people on the environment, understanding climate change, and managing the use of water. Proper collection and analysis of data using statistical techniques contributes significantly toward the solution of these problems. Statistics for Earth and Environmental Scientists presents important statistical concepts through data analyt

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