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| 1. Record Nr. | UNISALENTO991000192989707536 |
| Autore | Koliou, Nitsa |
| Titolo | Ta Belestiniotika : chronika tou demou pheron / Nitsa Koliou |
| Pubbl/distr/stampa | Athens : Pheron Belestinou Rega, 2001 |
| Descrizione fisica | 1 v. ; 18 cm |
| Lingua di pubblicazione | Greco Moderno |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910139399903321 |
| Autore | Schuenemeyer J. H |
| Titolo | Statistics for earth and environmental scientists / / John H. Schuenemeyer, Lawrence J. Drew |
| Pubbl/distr/stampa | Hoboken, N.J., : Wiley, c2011 |
| ISBN | 9786613371676
9781283371674
1283371677
9781118102213
1118102215
9780470650899
0470650893
9780470650707
0470650702 |
| Descrizione fisica | 1 online resource (422 p.) |
| Disciplina | 550.72/7 |
| Soggetti | Geology - Statistical methods
Earth sciences - Statistical methods
Environmental sciences - 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 (p. 389-397) and index.
Nota di contenuto	<p>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</p> <p>1.19 STATISTICAL CONCEPTS1.20 STATISTICS PARADIGMS; 1.21 SUMMARY; EXERCISES; 2 Modeling Concepts; 2.1 INTRODUCTION; 2.2 WHY CONSTRUCT A MODEL?; 2.3 WHAT DOES A STATISTICAL MODEL DO?; 2.4 STEPS IN MODELING; 2.5 IS A MODEL A UNIQUE SOLUTION TO A PROBLEM?; 2.6 MODEL ASSUMPTIONS; 2.7 DESIGNED EXPERIMENTS; 2.8 REPLICATION; 2.9 SUMMARY; EXERCISES; 3 Estimation and Hypothesis Testing on Means and Other Statistics; 3.1 INTRODUCTION; 3.2 INDEPENDENCE OF OBSERVATIONS; 3.3 CENTRAL LIMIT THEOREM; 3.4 SAMPLING DISTRIBUTIONS; 3.5 CONFIDENCE INTERVAL ESTIMATE ON A MEAN</p> <p>3.6 CONFIDENCE INTERVAL ON THE DIFFERENCE BETWEEN MEANS3.7 HYPOTHESIS TESTING ON MEANS; 3.8 BAYESIAN HYPOTHESIS TESTING; 3.9 NONPARAMETRIC HYPOTHESIS TESTING; 3.10 BOOTSTRAP HYPOTHESIS TESTING ON MEANS; 3.11 TESTING MULTIPLE MEANS VIA ANALYSIS OF VARIANCE; 3.12 MULTIPLE COMPARISONS OF MEANS; 3.13 NONPARAMETRIC ANOVA; 3.14 PAIRED DATA; 3.15 KOLMOGOROV-SMIRNOV GOODNESS-OF-FIT TEST; 3.16 COMMENTS ON HYPOTHESIS TESTING; 3.17 SUMMARY; EXERCISES; 4 Regression; 4.1 INTRODUCTION; 4.2 PITTSBURGH COAL QUALITY CASE STUDY; 4.3 CORRELATION AND COVARIANCE; 4.4 SIMPLE LINEAR REGRESSION</p> <p>4.5 MULTIPLE REGRESSION4.6 OTHER REGRESSION PROCEDURES; 4.7 NONLINEAR MODELS; 4.8 SUMMARY; EXERCISES; 5 Time Series; 5.1 INTRODUCTION; 5.2 TIME DOMAIN; 5.3 FREQUENCY DOMAIN; 5.4 WAVELETS; 5.5 SUMMARY; EXERCISES; 6 Spatial Statistics; 6.1 INTRODUCTION; 6.2 DATA; 6.3 THREE-DIMENSIONAL DATA VISUALIZATION; 6.4 SPATIAL ASSOCIATION; 6.5 EFFECT OF TREND; 6.6 SEMIVARIOGRAM MODELS; 6.7 KRIGING; 6.8 SPACE-TIME MODELS; 6.9 SUMMARY; EXERCISES; 7 Multivariate Analysis; 7.1 INTRODUCTION; 7.2 MULTIVARIATE GRAPHICS; 7.3 PRINCIPAL COMPONENTS ANALYSIS; 7.4 FACTOR ANALYSIS; 7.5 CLUSTER ANALYSIS</p> <p>7.6 MULTIDIMENSIONAL SCALING7.7 DISCRIMINANT ANALYSIS; 7.8 TREE-BASED MODELING; 7.9 SUMMARY; EXERCISES; 8 Discrete Data Analysis and Point Processes; 8.1 INTRODUCTION; 8.2 DISCRETE PROCESS AND DISTRIBUTIONS; 8.3 POINT PROCESSES; 8.4 LATTICE DATA AND MODELS; 8.5 PROPORTIONS; 8.6 CONTINGENCY TABLES; 8.7 GENERALIZED LINEAR MODELS; 8.8 SUMMARY; EXERCISES; 9 Design of Experiments; 9.1 INTRODUCTION; 9.2 SAMPLING DESIGNS; 9.3 DESIGN OF EXPERIMENTS; 9.4 COMMENTS ON FIELD STUDIES AND DESIGN; 9.5 MISSING DATA; 9.6 SUMMARY; EXERCISES; 10 Directional Data; 10.1 INTRODUCTION; 10.2 CIRCULAR DATA</p> <p>10.3 SPHERICAL DATA</p>
Sommario/riassunto	<p>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</p>

statistical techniques contributes significantly toward the solution of these problems. Statistics for Earth and Environmental Scientists presents important statistical concepts through data analyt
