1. Record Nr. UNINA990004731990403321

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| Autore | Colvin, Sidney |
| Titolo | Memories & notes of persons & Places : 1852-1912 / by Sidney Colvin |
| Pubbl/distr/stampa | London : E. Arnold & Co., 1921 |
| Descrizione fisica | 327 p., [1] tav. ; 23 cm |
| Locazione | FLFBC |
| Collocazione | RQ 180 |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |

2. Record Nr. UNINA9910456680203321

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| Autore | Menke William |
| Titolo | Environmental data analysis with MatLab [[electronic resource] /] / William Menke, Joshua Menke |
| Pubbl/distr/stampa | Amsterdam ; ; Boston, : Elsevier, c2012 |
| ISBN | 1-283-24992-8<br>9786613249920<br>0-12-391887-1 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (282 p.) |
| Altri autori (Persone) | MenkeJoshua E <1976-> (Joshua Ephraim) |
| Disciplina | 363.7001/5118 |
| Soggetti | Environmental sciences - Mathematical models<br>Environmental sciences - Data processing<br>Electronic books. |
| 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 and index. |
| Nota di contenuto | Front Cover; Environmental Data Analysis with MatLab; Copyright; Dedication; Preface; Advice on scripting for beginners; Contents; |

Chapter 1: Data analysis with MatLab; 1.1. Why MatLab?; 1.2. Getting started with MatLab; 1.3. Getting organized; 1.4. Navigating folders; 1.5. Simple arithmetic and algebra; 1.6. Vectors and matrices; 1.7. Multiplication of vectors of matrices; 1.8. Element access; 1.9. To loop or not to loop; 1.10. The matrix inverse; 1.11. Loading data from a file; 1.12. Plotting data; 1.13. Saving data to a file; 1.14. Some advice on writing scripts; Problems
Chapter 2: A first look at data2.1. Look at your data!; 2.2. More on MatLab graphics; 2.3. Rate information; 2.4. Scatter plots and their limitations; Problems; Chapter 3: Probability and what it has to do with data analysis; 3.1. Random variables; 3.2. Mean, median, and mode; 3.3. Variance; 3.4. Two important probability density functions; 3.5. Functions of a random variable; 3.6. Joint probabilities; 3.7. Bayesian inference; 3.8. Joint probability density functions; 3.9. Covariance; 3.10. Multivariate distributions; 3.11. The multivariate Normal distributions
3.12. Linear functions of multivariate dataProblems; Chapter 4: The power of linear models; 4.1. Quantitative models, data, and model parameters; 4.2. The simplest of quantitative models; 4.3. Curve fitting; 4.4. Mixtures; 4.5. Weighted averages; 4.6. Examining error; 4.7. Least squares; 4.8. Examples; 4.9. Covariance and the behavior of error; Problems; Chapter 5: Quantifying preconceptions; 5.1. When least square fails; 5.2. Prior information; 5.3. Bayesian inference; 5.4. The product of Normal probability density distributions; 5.5. Generalized least squares
5.6. The role of the covariance of the data5.7. Smoothness as prior information; 5.8. Sparse matrices; 5.9. Reorganizing grids of model parameters; Problems; Chapter 6: Detecting periodicities; 6.1. Describing sinusoidal oscillations; 6.2. Models composed only of sinusoidal functions; 6.3. Going complex; 6.4. Lessons learned from the integral transform; 6.5. Normal curve; 6.6. Spikes; 6.7. Area under a function; 6.8. Time-delayed function; 6.9. Derivative of a function; 6.10. Integral of a function; 6.11. Convolution; 6.12. Nontransient signals; Problems
Chapter 7: The past influences the present7.1. Behavior sensitive to past conditions; 7.2. Filtering as convolution; 7.3. Solving problems with filters; 7.4. Predicting the future; 7.5. A parallel between filters and polynomials; 7.6. Filter cascades and inverse filters; 7.7. Making use of what you know; Problems; Chapter 8: Patterns suggested by data; 8.1. Samples as mixtures; 8.2. Determining the minimum number of factors; 8.3. Application to the Atlantic Rocks dataset; 8.4. Spiky factors; 8.5. Time-Variable functions; Problems; Chapter 9: Detecting correlations among data
9.1. Correlation is covariance

Sommario/riassunto

Environmental Data Analysis with MatLab is for students and researchers working to analyze real data sets in the environmental sciences. One only has to consider the global warming debate to realize how critically important it is to be able to derive clear conclusions from often-noisy data drawn from a broad range of sources. This book teaches the basics of the underlying theory of data analysis, and then reinforces that knowledge with carefully chosen, realistic scenarios. MatLab, a commercial data processing environment, is used in these scenarios; significant content is devoted to teachi

3. Record Nr. UNINA9910463004003321

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| Titolo | Estuarine and coastal modeling [[electronic resource] ] : proceedings of the twelfth international conference, November 7-9, 2011, St. Augustine, Florida / / sponsored by Coasts, Oceans, Ports, and Rivers Institute (COPRI) of the American Society of Civil Engineers ; edited by Malcolm L. Spaulding |
| Pubbl/distr/stampa | Reston, Va., : American Society of Civil Engineers, c2012 |
| ISBN | 0-7844-7714-0 |
| Descrizione fisica | 1 online resource (594 p.) |
| Altri autori (Persone) | SpauldingMalcolm L |
| Disciplina | 551.46/18015118 |
| Soggetti | Estuaries - Mathematical models<br>Coast changes - Mathematical models<br>Hydrodynamics - Mathematical models<br>Water quality - Mathematical models<br>Sediment transport - Mathematical models<br>Electronic books. |
| 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 and indexes. |
| Nota di contenuto | ""Cover""; ""Contents""; ""Circulation Models""; ""Nonlinear Tidal Dynamics in Florida Coastal Waters""; ""Three-Dimensional Free-Surface Flow Model Verification and Validation: Assessment and Future Directions""; ""Corpus Christi Bay Three-Dimensional Hydrodynamics and Salinity Simulations Using Finite-Volume Coastal Ocean Model (FVCOM)""; ""Estuarine Dynamics""; ""Modeling the Impacts of Water Withdrawls on the Thermal Regime of the Weeki Wachee River Winter Manatee Habitat""; ""Evaluation of Baroclinic ADCIRC Using a Process-Oriented Test along a Slope""<br>""Application of Finite-Volume Coastal Ocean Model in Studying Strong Tidal Currents in Discovery Passage, British Columbia, Canada""""""<br>Evaluation of Flushing Efficiency in an Embayment System Depending on Different Channel Configurations Using FVCOM: A Case Study in Abu Dhabi""; ""Hydrodynamic Modeling Analysis of Tidal Wetland Restoration in Snohomish River, Washington""; ""Nowcast/Forecast |

Modeling Systems""; ""The St. Johns River Operational Forecast System: Evolution of an EFDC Model Application from Development to Operational Implementation""
""Calibration of Tides in an Operational Forecast System for the Shelikof Straitsa€?Cook Inlet Region of Alaska""""Floridaa€?s Intracoastal Waterway in a Storm Surge Setting: Longwave Physics and Mesh Resolution""; ""Development of Extratropical Surge and Tide Operational Forecast System (ESTOFS)""; ""An Automated Operational Storm Surge Prediction System for the National Hurricane Center"";
""Coupling of Tides and Storm Surge for Operational Modeling on the Florida Coast""; ""Pollutant Transport and Water Quality Prediction""
""An Enhanced Numerical Model for Material Cycling and Dissolved Oxygen Dynamics in Tokyo Bay, Japan""""A Modeling Study of Hydrodynamic Circulation in a Fjord of the Pacific Northwest"";
""Estimating Dissolved Oxygen Depletion from Anthropogenic and Riverine Loading Using a Three-Dimensional Water Quality Model"";
""Inundation Modeling""; ""Bare Earth LiDAR to Gridded Topography for the Pascagoula River, MS: An Accuracy Assessment""; ""Generating Numerical Model Grids Using Light Detection and Ranging (LiDAR) Data""; ""Conceptual Model for Back-Bay Inundations""
""Model Grids and Support Tools""""Implementation of a Hybrid Laplacian Filter in SLOSH to Suppress Numerical Grid Splitting""; ""The Coastal Science Educational Virtual Appliance (CSEVA)"";
""Approximation of the Effects of Subgrid Variations in Geometry in a Regional Ocean Model""; ""Wave and Sediment Transport Modeling"";
""Modeling Sediment Disposal in Inshore Waterways of British Columbia, Canada""; ""Estimates of Bed Stresses within a Model of Chesapeake Bay""; ""Model Sensitivity Studies""
""Responses of Simulated Low Salinity Habitats to Uncertainties of Gauged and Ungauged Flows in the Myakka River Estuary in Florida""