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DATA ANALYSIS IN THE EARTH SCIENCES USING MATLAB®



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Data Analysis In The Earth Sciences Using Matlab

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analysis of time series This book introduces methods of data analysis in geosciences using MATLAB such as basic statistics for univariate bivariate and multivariate datasets jackknife and bootstrap resampling schemes processing of digital elevation models gridding and contouring geostatistics and kriging processing and georeferencing of satellite images digitizing from the screen linear and nonlinear time series analysis and the application of linear time invariant and adaptive filters The revised and updated Third Edition includes ten new sections and has greatly expanded on most chapters from the previous edition including a step by step discussion of all methods before demonstrating the methods with MATLAB functions New sections include Data Storage and Handling Data Structures and Classes of Objects Generating M Files to Regenerate Graphs Publishing M Files Distribution Fitting Nonlinear and Weighted Regression Color Intensity Transects of Varved Sediments and Grain Size Analysis from Microscope Images The text includes numerous examples demonstrating how MATLAB can be used on data sets from earth sciences All MATLAB recipes can be easily modified in order to analyse the reader's own data sets

Signal and Noise in Geosciences Martin H. Trauth, 2021-11-06 This textbook introduces methods of geoscientific data acquisition using MATLAB in combination with inexpensive data acquisition hardware such as sensors in smartphones sensors that come with the LEGO MINDSTORMS set webcams with stereo microphones and affordable spectral and thermal cameras The text includes 35 exercises in data acquisition such as using a smartphone to acquire stereo images of rock specimens from which to calculate point clouds using visible and near infrared spectral cameras to classify the minerals in rocks using thermal cameras to differentiate between different types of surface such as between soil and vegetation localizing a sound source using travel time differences between pairs of microphones to localize a sound source quantifying the total harmonic distortion and signal to noise ratio of acoustic and elastic signals acquiring and streaming meteorological data using application programming interfaces wireless networks and internet of things platforms determining the spatial resolution of ultrasonic and optical sensors and detecting magnetic anomalies using a smartphone magnetometer mounted on a LEGO MINDSTORMS scanner The book's electronic supplementary material available online through Springer Link contains recipes that include all the MATLAB commands featured in the book the example data the LEGO construction plans photos and videos of the measurement procedures

Collecting, Processing and Presenting Geoscientific Information Martin H. Trauth, Elisabeth Sillmann, 2018-03-26 This second edition is an intensively revised and updated version of the book MATLAB and Design Recipes for Earth Sciences It aims to introduce students to the typical course followed by a data analysis project in earth sciences A project usually involves searching relevant literature reviewing and ranking published books and journal articles extracting relevant information from the literature in the form of text data or graphs searching and processing the relevant original data using MATLAB and compiling and presenting the results as posters abstracts and oral presentations using graphics design software The text of this book includes numerous examples on the use of internet resources on the visualization of data with MATLAB and on preparing scientific presentations As with the

book MATLAB Recipes for Earth Sciences 4rd Edition 2015 which demonstrates the use of statistical and numerical methods on earth science data this book uses state of the art software packages including MATLAB and the Adobe Creative Suite to process and present geoscientific information collected during the course of an earth science project The book s supplementary electronic material available online through the publisher s website includes color versions of all figures recipes with all the MATLAB commands featured in the book the example data exported MATLAB graphics and screenshots of the most important steps involved in processing the graphics **MATLAB® Recipes for Earth Sciences** Martin Trauth,2006-04-20 MATLAB is used in a wide range of applications in geosciences such as image processing in remote sensing generation and processing of digital elevation models and the analysis of time series This book introduces basic methods of data analysis in geosciences using MATLAB The text includes a brief description of each method and numerous examples demonstrating how MATLAB can be used on data sets from earth sciences All MATLAB recipes can be easily modified in order to analyse the reader s own data sets **Dictionary of Mathematical Geosciences** Richard J. Howarth,2017-05-27 This dictionary includes a number of mathematical statistical and computing terms and their definitions to assist geoscientists and provide guidance on the methods and terminology encountered in the literature Each technical term used in the explanations can be found in the dictionary which also includes explanations of basics such as trigonometric functions and logarithms There are also citations from the relevant literature to show the term s first use in mathematics statistics etc and its subsequent usage in geosciences **Computational Geosciences with Mathematica** William Haneberg,2012-12-06 Computational Geosciences with Mathematica is the only book written by a geologist specifically to show geologists and geoscientists how to use Mathematica to formulate and solve problems It spans a broad range of geologic and mathematical topics which are drawn from the author s extensive experience in research consulting and teaching The reference and text leads readers step by step through geologic applications such as custom graphics programming data input and output linear and differential equations linear and nonlinear regression Monte Carlo simulation time series and image analysis and the visualization and analysis of geologic surfaces It is packed with actual Mathematica output and includes boxed Computer Notes with tips and exploration suggestions **Geological Survey of Canada, Current Research (Online) no. 2005-D2 , Environmental Data Analysis with MatLab** William Menke,Joshua Menke,2011-09-02 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 teaching how it can be effectively used in an environmental data analysis setting The book though written in a self contained way is

supplemented with data sets and MatLab scripts that can be used as a data analysis tutorial It is well written and outlines a clear learning path for researchers and students It uses real world environmental examples and case studies It has MatLab software for application in a readily available software environment Homework problems help user follow up upon case studies with homework that expands them

Computational Statistics in the Earth Sciences Alan D. Chave, 2017-10-19
This book combines theoretical underpinnings of statistics with practical analysis of Earth sciences data using MATLAB
Supplementary resources are available online *Earth Sciences Research at Norwegian Universities and Colleges: Assessments, recommendations and conclusions prepared by the Review Committee*, 1998

Data Visualization in the Geological Sciences James R. Carr, 2002 CD ROM contains Visual_Data Data files used in text Digital images used in text

Journal of Geoscience Education, 2000

Numerical and Statistical Methods with SCILAB for Science and Engineering Gilberto E. Urroz, 2001 Mathematics and statistics with the free software SCILAB <http://www.rocq.inria.fr/scilab>

Earth Science: Planetology and earth from space. Appendices and index James A. Woodhead, 2001 Presents cross referenced essays on basic topics related to planetology and Earth from space each essay includes an annotated bibliography

The Best Books for Academic Libraries: Science, technology, and agriculture, 2002

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