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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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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

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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

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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 Universiteis and Colleges:*

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Journal of Geoscience Education ,2000 **Numerical and Statistical Methods with SCILAB for Science and**

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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

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