



Environmental Data Analysis with MatLab

William Menke, Joshua Menke

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Environmental Data Analysis with MatLab is a new edition that expands fundamentally on the original with an expanded tutorial approach, new crib sheets, and problem sets providing a clear learning path for students and researchers working to analyze real data sets in the environmental sciences. Since publication of the bestselling *Environmental Data Analysis with MATLAB®*, many advances have been made in environmental data analysis. 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. The work 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. This new edition, though written in a self-contained way, is supplemented with data and MATLAB® scripts that can be used as a data analysis tutorial.

New features include boxed crib sheets to help identify major results and important formulas and give brief advice on how and when they should be used. Numerical derivatives and integrals are derived and illustrated. Includes log-log plots with further examples of their use. Discusses new datasets on precipitation and stream flow. Topical enhancement applies the chi-squared test to the results of the generalized least squares method. New coverage of cluster analysis and approximation techniques that are widely applied in data analysis, including Taylor Series and low-order polynomial approximations; non-linear least-squares with Newton's method; and pre-calculation and updating techniques applicable to real time data acquisition.

- Provides a clear learning path for researchers and students using data analysis techniques which build upon one another, choosing the right order of presentation to substantially aid the reader in learning material
- Includes crib sheets to summarize the most important data analysis techniques, results, procedures, and formulas, serving to organize the material in such a way that its sequence is more apparent
- Uses real-world environmental examples and case studies formulated using the readily-available software environment in MATLAB®
- Includes log-log plots with further examples of their use

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In this era globalization it is important to someone to receive information. The information will make anyone to understand the condition of the world. The fitness of the world makes the information better to share. You can find a lot of sources to get information example: internet, newspapers, book, and soon. You can see that now, a lot of publisher that will print many kinds of book. The particular book that recommended to your account is Environmental Data Analysis with MatLab this guide consist a lot of the information in the condition of this world now. This kind of book was represented just how can the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. Often the writer made some study when he makes this book. Honestly, that is why this book appropriate all of you.

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