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Time-Series Analysis And Cyclostratigraphy: Examining Stratigraphic Records Of Environmental Cycles



Synopsis

Increasingly, environmental scientists, palaeoceanographers and geologists are collecting quantitative records of environmental changes (time series) from sediments, ice cores, cave calcite, corals and trees. This book explains how to analyze these records, using straightforward explanations and diagrams rather than formal mathematical derivations. All the main cyclostratigraphic methods are covered, including spectral analysis, cross-spectral analysis, filtering, complex demodulation, and wavelet and singular spectrum analysis. Practical problems of time-series analysis are considered in detail. Recent research into various types of tidal and climatic cycles is summarized.

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Customer Reviews

The qualitative descriptions of time-series analysis were helpful to me in that I know have a basic understanding of how time-series analysis works. The book was written for serious math-phobes, so if you never want to see an equation but need to understand time series analysis, this is the book for you. I'm not quite that math-phobic, so for me the book would have been more helpful had the math behind the analysis been included somewhere, even if just as an appendix. If you actually want to be able to do time series analysis, I'd suggest looking elsewhere.

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