



# Data Analysis Methods in Physical Oceanography

By Richard E. Thomson, William J. Emery

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**Data Analysis Methods in Physical Oceanography** By Richard E. Thomson, William J. Emery

*Data Analysis Methods in Physical Oceanography, Third Edition* is a practical reference to established and modern data analysis techniques in earth and ocean sciences. Its five major sections address data acquisition and recording, data processing and presentation, statistical methods and error handling, analysis of spatial data fields, and time series analysis methods. The revised *Third Edition* updates the instrumentation used to collect and analyze physical oceanic data and adds new techniques including Kalman Filtering. Additionally, the sections covering spectral, wavelet, and harmonic analysis techniques are completely revised since these techniques have attracted significant attention over the past decade as more accurate and efficient data gathering and analysis methods.

- Completely updated and revised to reflect new filtering techniques and major updating of the instrumentation used to collect and analyze data
- Co-authored by scientists from academe and industry, both of whom have more than 30 years of experience in oceanographic research and field work
- Significant revision of sections covering spectral, wavelet, and harmonic analysis techniques
- Examples address typical data analysis problems yet provide the reader with formulaic “recipes” for working with their own data
- Significant expansion to 350 figures, illustrations, diagrams and photos

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**Bibliography**

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## **Editorial Review**

Review

Reviews of the *Second Edition*: "This book is the most comprehensive and practical source of information on data analysis methods available to the physical oceanographer. The reader gets the benefit of extremely broad coverage and an excellent set of examples drawn from geographical observations." --**Oceanography**

## **Users Review**

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**Stephen Rael:**

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