



Geophysical Data Analysis: Discrete Inverse Theory, Volume 45, Third Edition: MATLAB Edition (International Geophysics)

By William Menke

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Since 1984, Geophysical Data Analysis has filled the need for a short, concise reference on inverse theory for individuals who have an intermediate background in science and mathematics. The new edition maintains the accessible and succinct manner for which it is known, with the addition of:

- MATLAB examples and problem sets
- Advanced color graphics
- Coverage of new topics, including Adjoint Methods; Inversion by Steepest Descent, Monte Carlo and Simulated Annealing methods; and Bootstrap algorithm for determining empirical confidence intervals
- Additional material on probability, including Bayesian influence, probability density function, and metropolis algorithm
- Detailed discussion of application of inverse theory to tectonic, gravitational and geomagnetic studies
- Numerous examples and end-of-chapter homework problems help you explore and further understand the ideas presented
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Editorial Review

Review

"This is a practical book on data analysis based on numerical Matlab procedures for solving inverse problems with a special application in seismology. The book is useful both as a textbook for graduate students in geophysics and as a numerical data processing reference book for researchers not only in geophysics but also those involved in acoustic tomography and X-ray imaging data processing."--Zentrallblatt MATH 1250 Praise for the second edition:

"The author has produced a meaningful guide to the subject; one which a student (or professional unfamiliar with the field) can follow without great difficulty and one in which many motivational guideposts are provided....I think that the value of the book is outstanding....It deserves a prominent place on the shelf of every scientist or engineer who has data to interpret."--GEOPHYSICS "As a meteorologist, I have used least squares, maximum likelihood, maximum entropy, and empirical orthogonal functions during the course of my work, but this book brought together these somewhat disparate techniques into a coherent, unified package....I recommend it to meteorologists involved with data analysis and parameterization."--Roland B. Stull, THE BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY

"This book provides an excellent introductory account of inverse theory with geophysical applications....My experience in using this book, along with supplementary material in a course for the first year graduate students, has been very positive. I unhesitatingly recommend it to any student or researcher in the geophysical sciences."--PACEOPH

About the Author

William Menke is a Professor of Earth and Environmental Sciences at Columbia University, USA. His research focuses on the development of data analysis algorithms for time series analysis and imaging in the earth and environmental sciences and the application of these methods to volcanoes, earthquakes and other natural hazards.

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