

Inverse Theory and Applications in Geophysics, Second Edition (Methods in Geochemistry and Geophysics)

By Michael S. Zhdanov

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Geophysical Inverse Theory and Applications, Second Edition, brings together fundamental results developed by the Russian mathematical school in regularization theory and combines them with the related research in geophysical inversion carried out in the West. It presents a detailed exposition of the methods of regularized solution of inverse problems based on the ideas of Tikhonov regularization, and shows the different forms of their applications in both linear and nonlinear methods of geophysical inversion. It's the first book of its kind to treat many kinds of inversion and imaging techniques in a unified mathematical manner.

The book is divided in five parts covering the foundations of the inversion theory and its applications to the solution of different geophysical inverse problems, including potential field, electromagnetic, and seismic methods. Unique in its focus on providing a link between the methods used in gravity, electromagnetic, and seismic imaging and inversion, it represents an exhaustive treatise on inversion theory.

Written by one of the world's foremost experts, this work is widely recognized as the ultimate researcher's reference on geophysical inverse theory and its practical scientific applications.

- Presents state-of-the-art geophysical inverse theory developed in modern mathematical terminology?the first to treat many kinds of inversion and imaging techniques in a unified mathematical way.
- Provides a critical link between the methods used in gravity, electromagnetic, and seismic imaging and inversion, and represents an exhaustive treatise on geophysical inversion theory.
- Features more than 300 illustrations, figures, charts and graphs to underscore key concepts.
- Reflects the latest developments in inversion theory and applications and captures the most significant changes in the field over the past decade.

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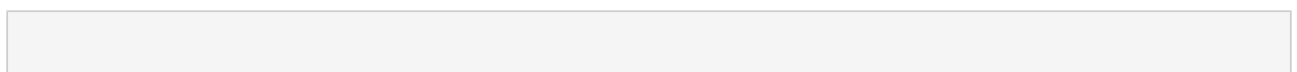
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Review

"...will be very beneficial for graduate students in global geophysics and geophysical prospection, as well as utilized by professionals dealing with mathematical geophysics." --**Pure and Applied Geophysics**

About the Author

Michael S. Zhdanov is Professor of Geophysics in the Department of Geology and Geophysics at the University of Utah in Salt Lake City. Dr. Zhdanov is also Director of the Center of Electromagnetic Research at the same university. He has more than 30 years of experience in research and instruction in geophysical electromagnetic theory and he has authored more than 100 papers on the subject.

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