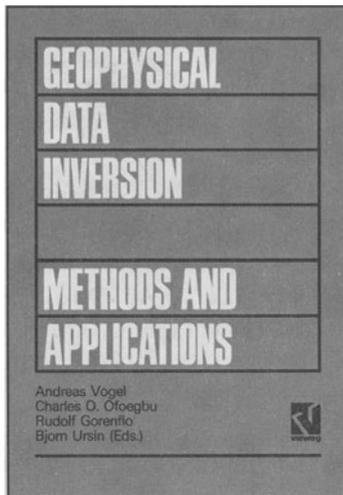

Geophysical Data Inversion – Methods and Applications

edited by Andreas Vogel, Charles O. Ofoegbu, Bjorn Ursin
and Rudolf Gorenflo

1990. VIII, 620 pages (*Theory and Practice of Applied Geophysics*,
Vol. 4; ed. by Andreas Vogel) Hardcover.
ISBN 3-528-06396-3



This monograph contains a selection of papers presented at the Seventh International Seminar on Model Optimization on Exploration Geophysics held at the Free University of Berlin, February 8-11, 1989. The papers presented here cover the different methods of synthetic and real data sets. The volume covers a wide spectrum of the subject from basic mathematics, general theory and computer implementation of methods to their practical applications.

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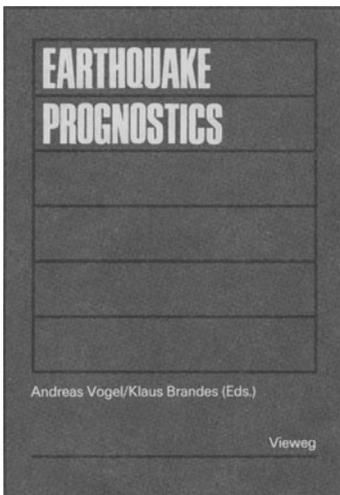


Earthquake Prognostics

edited by Andreas Vogel, and Klaus Brandes

Hazard Assessment, Risk Evaluation and Damage Prevention. Proceedings of the 2nd International Seminar held in Berlin, June 24-27, 1986.

1988. X, 534 pages (*Progress in Earthquake Prediction Research, Vol. 3, ed. by Andreas Vogel*) Hardcover.
ISBN 3-528-06323-8



A prerequisite for the assessment of the earthquake hazard is a thorough understanding of earthquake generating processes obtained by intensive studies on seismotectonics, earthquake source physics, and earthquake-related ground deformation (Part I of the book).

Quantitative assessment of the earthquake hazard requires model simulation of earthquake generation, of expected focal mechanisms, of seismic wave radiation and propagation, and finally precalculation of the characteristics of groundmotion to be expected at a site designated for construction (Part II). Part III is dedicated to risk evaluation and damage

prevention by earthquake engineering. Risk analysis includes seismic vulnerability and loss estimation.

Earthquake engineering is concerned with the design of structures in seismic regions. It deals with numerous facets of structural systems and details, numerical dynamic methods, soil dynamics, soil structure interaction, modeling of systems and materials behaviour.

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