

HANDBOOK OF GEOPHYSICAL EXPLORATION

SECTION I. SEISMIC EXPLORATION

KLAUS HELBIG and SYEN TREITEL (Editors)

VOLUME 4A

**SEISMIC INVERSION
AND
DECONVOLUTION**

PART A: CLASSICAL METHODS

by ENDERS A. ROBINSON

GEOPHYSICAL PRESS

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Information-Based Inversion and Processing with Applications T.J. Ulrych, M.D. Sacchi, 2005-12-16 Information Based Inversion and Processing with Applications examines different classical and modern aspects of geophysical data processing and inversion with emphasis on the processing of seismic records in applied seismology Chapter 1 introduces basic concepts including probability theory expectation operator and ensemble statistics elementary principles of parameter estimation Fourier and z transform essentials and issues of orthogonality In Chapter 2 the linear treatment of time series is provided Particular attention is paid to Wold decomposition theorem and time series models AR MA and ARMA and their connection to seismic data analysis problems Chapter 3 introduces concepts of Information theory and contains a synopsis of those topics that are used throughout the book Examples are entropy conditional entropy Burg's maximum entropy spectral estimator and mutual information Chapter 4 provides a description of inverse problems first from a deterministic point of view then from a probabilistic one Chapter 5 deals with methods to improve the signal to noise ratio of seismic records Concepts from previous chapters are put in practice for designing prediction error filters for noise attenuation and high resolution Radon operators Chapter 6 deals with the topic of deconvolution and the inversion of acoustic impedance The first part discusses band limited extrapolation assuming a known wavelet and considers the issue of wavelet estimation The second part deals with sparse deconvolution using various entropy type norms Finally Chapter 7 introduces recent topics of interest to the authors The emphasis of this book is on applied seismology but researchers in the area of global seismology and geophysical signal processing and inversion will find material that is relevant to the ubiquitous problem of estimating complex models from a limited number of noisy observations Non conventional approaches to data processing and inversion are presented Important problems in the area of seismic resolution enhancement are discussed Contains research material that could inspire graduate students and their supervisors to undertake new research directions in applied seismology and geophysical signal processing **Handbook of Geophysical Exploration** Enders A. Robinson, 1999 Fundamentals of Geophysical

Interpretation Laurence R. Lines, Rachel Therese Newrick, 2004 Fundamentals of Geophysical Interpretation SEG Geophysical Monograph Series No 13 is a practical handbook for the petroleum geophysicist Fundamental concepts are explained using heuristic descriptions of seismic modeling deconvolution depth migration and tomography Pitfalls in processing and contouring are described briefly Applications include petroleum exploration of carbonate reefs salt intrusions and overthrust faults The book includes past present and possible future developments in time lapse seismology borehole geophysics multicomponent seismology and integrated reservoir characterization Seismic Exploration, 1984 *Digital Imaging and Deconvolution* Enders A. Robinson, Sven Treitel, 2008 Digital Imaging and Deconvolution The ABCs of Seismic Exploration and Processing SEG Geophysical References Series No 15 covers the basic ideas and methods used in seismic processing concentrating on the fundamentals of seismic imaging and deconvolution Most chapters are followed by problem sets Some exercises supplement textual material others are meant to stimulate classroom discussions Text and exercises deal mostly with simple examples that can be solved with nothing more than pencil and paper The book covers wave motion digital imaging digital filtering various visualization aspects of the seismic reflection method sampling theory the frequency spectrum synthetic seismograms wavelets and wavelet processing deconvolution the need for continuing interaction between the seismic interpreter and the computer seismic attributes phase rotation and seismic attenuation The last of the 15 chapters provides a detailed mathematical overview Digital Imaging and Deconvolution nominated for the Association of Earth Science Editors award for best geoscience publication of 2008 2009 will interest professional geophysicists graduate students and upper level undergraduates in geophysics The book also will be helpful to scientists and engineers in other disciplines who use digital signal processing to analyze and image wave motion data in remote detection applications The methods described are important in optical imaging video imaging medical and biological imaging acoustical analysis radar and sonar Seismic Inversion Yanghua Wang, 2016-10-31 Seismic inversion aims to reconstruct a quantitative model of the Earth subsurface by solving an inverse problem based on seismic measurements There are at least three fundamental issues to be solved simultaneously non linearity non uniqueness and instability This book covers the basic theory and techniques used in seismic inversion corresponding to these three issues emphasising the physical interpretation of theoretical concepts and practical solutions This book is written for master and doctoral students who need to understand the mathematical tools and the engineering aspects of the inverse problem needed to obtain geophysically meaningful solutions Building on the basic theory of linear inverse problems the methodologies of seismic inversion are explained in detail including ray impedance inversion and waveform tomography etc The application methodologies are categorised into convolutional and wave equation based groups This systematic presentation simplifies the subject and enables an in depth understanding of seismic inversion This book also provides a practical guide to reservoir geophysicists who are attempting quantitative reservoir characterisation based on seismic data Philosophically the seismic inverse problem allows for a range of possible

solutions but the techniques described herein enable geophysicists to exclude models that cannot satisfy the available data. This book summarises the author's extensive experience in both industry and academia and includes innovative techniques not previously published.

Handbook of Geophysical Exploration Elmar Eisner, 1983 Handbook of Geophysical Exploration Maurice Pieuchot, 1984 Handbook of Geophysical Exploration, 1983* **Handbook of Geophysical Exploration**, 1983 *Seismic Amplitude Inversion in Reflection Tomography* Yanghua Wang, 2003-02-25

This is the first book of its kind on seismic amplitude inversion in the context of reflection tomography. The aim of the monograph is to advocate the use of ray amplitude data separately or jointly with traveltime data in reflection seismic tomography. The emphasis of seismic exploration is on imaging techniques so that seismic section can be interpreted directly as a geological section. In contrast it is perhaps ironic that in decades of industrial seismology one major aspect of waveform data that potentially is easier to measure and analyse has generally been ignored. That is the information content of seismic amplitudes. Perhaps the potential complexity has deterred most researchers from a more thorough investigation of the practical use of seismic amplitude data. The author of this volume presents an authoritative and detailed study of amplitude data as used in conjunction with traveltime data to provide better constraints on the variation of seismic wave speed in the subsurface. One of the fundamental problems in conventional reflection seismic tomography using only traveltime data is the possible ambiguity between the velocity variation and the reflector depth. The inclusion of amplitude data in the inversion may help to resolve this problem because the amplitudes and traveltimes are sensitive to different features of the subsurface model and thereby provide more accurate information about the subsurface structure and the velocity distribution. An essential goal of this monograph is to make the amplitude inversion method work with real reflection seismic data.

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Table of Contents Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover

1. Understanding the eBook Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - The Rise of Digital Reading Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Advantages of eBooks Over Traditional Books
2. Identifying Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic

- Exploration Hardcover
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Personalized Recommendations
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover User Reviews and Ratings
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover and Bestseller Lists
- 5. Accessing Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover Free and Paid eBooks
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover Public Domain eBooks
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover eBook Subscription Services
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover Budget-Friendly Options
- 6. Navigating Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover eBook Formats
 - ePub, PDF, MOBI, and More
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover Compatibility with Devices
 - Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Highlighting and Note-Taking Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Interactive Elements Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic

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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
9. Balancing eBooks and Physical Books Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Setting Reading Goals Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Fact-Checking eBook Content of Seismic Inversion And Deconvolution Handbook Of Geophysical Exploration Seismic Exploration Hardcover
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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source language into another language the target language

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