

**HANDBOOK OF GEOPHYSICAL EXPLORATION**

**SECTION 1. SEISMIC EXPLORATION**

**KLAUS HELBIG and SVEN TREITEL (Editors)**

**VOLUME 4A**

**SEISMIC INVERSION  
AND  
DECONVOLUTION**

**PART A: CLASSICAL METHODS**

**by ENDERS A. ROBINSON**

**GEOPHYSICAL PRESS**

# Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4

**RS Peters**



## **Seismic Inversion Deconvolution Classical Methods** **Part A Seismic Exploration Vol 4:**

Handbook of Geophysical Exploration Enders A. Robinson, 1984      Seismic Inversion and Deconvolution Enders A. Robinson, 1984      *Seismic Inversion & Deconvolution: Classical methods* Enders A. Robinson, 1984 The objective of seismic exploration is to delineate the subsurface structure of the earth A large variety of computer processing methods are available to transform the observed seismic data into a form that is more useful to the seismic interpreter An important subdivision of these methods comes under the heading Seismic Inversion and Deconvolution Most seismic data are recorded either by geophone that measures particle velocity or else by hydrophone that measures pressure A dual sensor incorporates both a geophone and a hydrophone so simultaneous measurements of both particle velocity and pressure are obtained Unprecedented improvements in inversion and deconvolution are made possible through the use of Dual Sensor Technology The purpose of Seismic Inversion and Deconvolution Part B Dual Sensor Technology is to provide the fundamentals of dual sensor technology Previous work together with new results are brought together into a self contained whole By using dual sensors in the acquisition of seismic data new avenues are opened up that revolutionize all aspects of seismic inversion and deconvolution Dual sensor technology can lead to images of the subsurface of the earth that were previously thought unattainable The implications for the oil industry are far reaching Great new reserves of petroleum are waiting to be discovered through the use of dual sensor technology Today the main application of this work is with ocean bottom cable OBC methods However it is anticipated that dual sensor technology will soon be applied not only to all aspects of seismic oil exploration but also to other disciplines involved with remote sensing      **Seismic Inversion & Deconvolution** Enders A. Robinson, 1984      **Seismic Inversion & Deconvolution: Dual-sensor technology** Enders A. Robinson, 1999 Hardbound The objective of seismic exploration is to delineate the subsurface structure of the earth A large variety of computer processing methods are available to transform the observed seismic data into a form that is more useful to the seismic interpreter An important subdivision of these methods comes under the heading Seismic Inversion and Deconvolution Most seismic data are recorded either by geophone that measures particle velocity or else by hydrophone that measures pressure A dual sensor incorporates both a geophone and a hydrophone so simultaneous measurements of both particle velocity and pressure are obtained Unprecedented improvements in inversion and deconvolution are made possible through the use of Dual Sensor Technology The purpose of Seismic Inversion and Deconvolution Part B Dual Sensor Technology is to provide the fundamentals of dual sensor technology Previous work together with new results are brought together      **Seismic Inversion and Deconvolution** Enders A. Robinson,      *Deconvolution and Inversion* M. Bernabini, 1991-01-15 This book represents the proceedings of a research workshop on Deconvolution and Inversion held in Rome September 1986 The meeting was jointly sponsored by the European Association of Exploration Geophysicists the Society of Exploration Geophysicists the National Research Council in Italy and the National Science Foundation in the United States The stated objective of the workshop was

to elucidate interaction between linear and non linear deconvolution techniques and modern seismic inversion methods The volume also includes papers which were especially invited

**Seismic Inversion & Deconvolution** Enders A. Robinson, 1984

**Optimal Seismic Deconvolution** Jerry M. Mendel, 2013-09-03

Optimal Seismic Deconvolution An Estimation Based Approach presents an approach to the problem of seismic deconvolution It is meant for two different audiences practitioners of recursive estimation theory and geophysical signal processors The book opens with a chapter on elements of minimum variance estimation that are essential for all later developments Included is a derivation of the Kalman filter and discussions of prediction and smoothing Separate chapters follow on minimum variance deconvolution maximum likelihood and maximum a posteriori estimation methods the philosophy of maximum likelihood deconvolution MLD and two detection procedures for determining the location parameters in the input sequence product model Subsequent chapters deal with the problem of estimating the parameters of the source wavelet when everything else is assumed known a priori estimation of statistical parameters when the source wavelet is known a priori and a different block component method for simultaneously estimating all wavelet and statistical parameters detecting input signal occurrence times and deconvolving a seismic signal The final chapter shows how to incorporate the simplest of all models the normal incidence model into the maximum likelihood deconvolution procedure

**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

*Practical Wavelet Deconvolution and Seismic Inversion* C. R. T. Ramsden, 1987

Seismic Exploration for Sandstone Reservoirs N.A. Anstey, 2012-12-06

This text was originally written for use with the videotape program of the same title Numbered video cassettes correspond to the following chapters of the book

Tape	Chapter
1	1
1	2
2	2
1	1
1	1

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Schramm et al AAPG 3 1 4 Lamer et al Western Geophysical Company 3 2 2 2 Prakla Seismos 3 2 2 3 Leung et al Amoco  
Europe 3 2 2 4 Newman et al S 3 2 3 2 Seiscom Delta 3 3 1 Taner Seiscom Delta 3      **Signal/noise Separation and**  
**Seismic Inversion** William S. Harlan,1986      *Seismic Inversion by Wave Equation Method* Xinyi Sun,1997      Proceedings  
of the Workshop on "Practical Aspects of Seismic Inversion" G. Grau,1990      Method for Seismic Exploration in Arctic  
Regions Frederick J. Barr,Gary A. Sitton,David L. Nyland,1995      Asymptotic Seismic Inversion Geert Jan Agur Sevink,1996  
**Improved Modeling and Inversion for Seismic Surface Waves Method** ,2023      **Handbook of Geophysical**  
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## **Table of Contents Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4**

1. Understanding the eBook Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - The Rise of Digital Reading Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Advantages of eBooks Over Traditional Books
2. Identifying Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - 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 Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - User-Friendly Interface
4. Exploring eBook Recommendations from Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Personalized Recommendations

- Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 User Reviews and Ratings
- Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 and Bestseller Lists
- 5. Accessing Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 Free and Paid eBooks
  - Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 Public Domain eBooks
  - Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 eBook Subscription Services
  - Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 Budget-Friendly Options
- 6. Navigating Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 eBook Formats
  - ePub, PDF, MOBI, and More
  - Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 Compatibility with Devices
  - Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Highlighting and Note-Taking Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Interactive Elements Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
- 8. Staying Engaged with Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
- 9. Balancing eBooks and Physical Books Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time

11. Cultivating a Reading Routine Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Setting Reading Goals Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - Fact-Checking eBook Content of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4
  - 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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