

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

William S. Harlan



Seismic Inversion Deconvolution Classical Methodspart 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 and Deconvolution** Enders A. Robinson, *Seismic Inversion & Deconvolution: Dual-sensor technology* Enders A. Robinson, 1984 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 **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,1983 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 Kaiman 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 maxi

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

Seismic Data Analysis ,2000 **Seismic Inversion Methods: A Practical Approach** S. P. Maurya,N. P. Singh,K. H. Singh,2020-05-28 This book introduces readers to seismic inversion methods and their application to both synthetic and real seismic data sets Seismic inversion methods are routinely used to estimate attributes like P impedance S impedance density the ratio of P wave and S wave velocities and elastic impedances from seismic and well log data These attributes help to understand lithology and fluid contents in the subsurface There are several seismic inversion methods available but their application and results differ considerably which can lead to confusion This book explains all popular inversion methods discusses their mathematical backgrounds and demonstrates their capacity to extract information from seismic reflection data The types covered include model based inversion colored inversion sparse

spike inversion band limited inversion simultaneous inversion elastic impedance inversion and geostatistical inversion which includes single attribute analysis multi attribute analysis probabilistic neural networks and multi layer feed forward neural networks In addition the book describes local and global optimization methods and their application to seismic reflection data Given its multidisciplinary integrated and practical approach the book offers a valuable tool for students and young

professionals especially those affiliated with oil companies **Seismic Exploration Methods** Ray L. Sengbush,2012-12-06

This book describes the seismic methods used in geophysical exploration for oil and gas in a comprehensive non rigorous mathematical manner I have used it and its predecessors as a manual for short courses in seismic methods and it has been extensively revised time and again to include the latest advances in our truly remarkable science I once called it Advanced Seismic Interpretation but the geophysicists who attended the courses always wondered when I was going to start discussing interpretation They discovered at the end that I never did discuss interpretation as they knew it No mention was made of reflection picking picking times mapping contouring and things they already knew perfectly well Instead I discussed Fourier transforms sampling theory impulse responses distortion operators Wiener filters noise in f k space velocity spectra wave equation migration and direct detection of hydrocarbons as each of these topics appeared on the seismic scene I wanted the geophysicists to think beyond the routine of interpretation to develop a better understanding of why seismic sections look as they do to have a better feel for what digital processing is doing for good or evil to the seismic data I attempted to stretch their minds Whitehead said it best A mind once stretched by a new idea can never shrink to its former dimension May this book be a successful mind stretcher R L *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 s Tape Chapter s 1 1 2 2 1 1 1 3 4 2 2 2 2 3 12 3 5 1 3 5 2 3 2 4 13 3 5 3 4 2 5 2 6 14 3 5 4 3 6 3 5 2 7 2 8 15 3 7 3 7 2 6 3 16 3 8 4 7 3 1 17 4 1 8 3 2 3 2 1 18 4 2 4 4 9 3 2 2 3 2 3 19 5 10 3 3 Complete information about the videotape program *Seismic Exploration for Sandstone Reservoirs* may be obtained from IHRDC 137 Newbury St Boston MA 02116 617 536 0202 Acknowledgements Thanks are expressed to the authors companies and professional associations who have allowed the use of their material in the course The author and publisher are grateful for permission to reproduce material whose copyright belongs as follows Figures 2 4 3 Widess SEG 2 4 4 Prescott Continental Oil Company 3 1 Le Blanc AAPG 3 2 MacKenzie AAPG 3 1 1 Seiscom Delta 3 1 3 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 **Seismic Resolution** A. J. Berkhout,1984

Proceedings of the Workshop on "Practical Aspects of Seismic Inversion" G. Grau,1990 **Asymptotic Seismic Inversion** Geert Jan Agur Sevink,1996

The book delves into Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4. Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 in Everyday Life
 - Chapter 4: Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4. This chapter will explore what Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 is, why Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 is vital, and how to effectively learn about Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4.
3. In chapter 2, this book will delve into the foundational concepts of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4. The second chapter will elucidate the essential principles that need to be understood to grasp Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 in its entirety.
4. In chapter 3, the author will examine the practical applications of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 in daily life. This chapter will showcase real-world examples of how Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4 can be effectively utilized in everyday scenarios.
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6. In chapter 5, this book will draw a conclusion about Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4.

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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