

**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

**Xiaolong Qi**



## **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.

**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

**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 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

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Method Xinyi Sun,1997 *Proceedings of the Workshop on "Practical Aspects of Seismic Inversion"* G. Grau,1990 **A**  
**Method for the Inversion of Seismic Travel Times for Velocity Structure in Two Dimensional Media** John Louis  
Haglund,1982 **Seismic Data Analysis** Özdoğan Yilmaz,2001 z Yilmaz has expanded his original volume on processing to  
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**Seismic Surface Waves Method** ,2023 **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

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Seismic Inversion Deconvolution Classical Methodspart A Seismic Exploration Vol 4**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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