

# Seismic Velocity Analysis and the Convolutional Model

Robinson, Enders A

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# Seismic Velocity Analysis And The Convolutional Model

**R. Marschall**



## **Seismic Velocity Analysis And The Convolutional Model:**

Seismic Velocity Analysis and the Convolutional Model Enders A. Robinson, 1983-01-01      *Seismic Velocity Analysis and the Convolutional Model* Enders Robinson, 1983      *Seismic Hydrocarbon Exploration* Hamid N. Alsadi, 2016-08-26 This book presents the essential principles and applications of seismic oil exploration techniques It concisely covers all stages in exploration activities data field acquisition data processing and interpretation supplementing the main text with a wealth of 350 illustrations and figures The book concentrates on the physics of the applied principles avoiding intricate mathematical treatment and lengthy theoretical reasoning A further prominent feature is the inclusion of a separate chapter on 3D surveying techniques and another equally important chapter on seismic digital signals and the aliasing problem which is presented in an accessible form The book is designed to meet the needs of both the academic and industrial worlds University students and employees of oil exploration companies alike will find the book to be a valuable resource

Exploration Geophysics Mamdouh R. Gadallah, Ray Fisher, 2008-10-20 Many text books have been written on the subject Exploration Geophysics The majority of these texts focus on the theory and the mathematical treatment of the subject matter but lack treatment of practical aspects of geophysical exploration This text is written in simple English to explain the physical meaning of jargon or terms used in the industry It describes how seismic data is acquired in 2 D and 3 D how they are processed to convert the raw data to seismic vertical and horizontal cross sections that are geologically meaningful and how these and other data are interpreted to delineate a prospect Workshops are included after each chapter and are designed to reinforce learning of the concepts presented Key Features Written in simple easy to understand language Heavily illustrated to aid in understanding the text End of chapter Key words and workshop The text includes several appendices and answers for the selected workshop problems

**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      *Maximum-Likelihood Deconvolution* Jerry M. Mendel,2012-12-06

Convolution is the most important operation that describes the behavior of a linear time invariant dynamical system Deconvolution is the unraveling of convolution It is the inverse problem of generating the system s input from knowledge about the system s output and dynamics Deconvolution requires a careful balancing of bandwidth and signal to noise ratio effects Maximum likelihood deconvolution MLD is a design procedure that handles both effects It draws upon ideas from Maximum Likelihood when unknown parameters are random It leads to linear and nonlinear signal processors that provide high resolution estimates of a system s input All aspects of MLD are described from first principles in this book The purpose of this volume is to explain MLD as simply as possible To do this the entire theory of MLD is presented in terms of a convolutional signal generating model and some relatively simple ideas from optimization theory Earlier approaches to MLD which are couched in the language of state variable models and estimation theory are unnecessary to understand the essence of MLD MLD is a model based signal processing procedure because it is based on a signal model namely the convolutional model The book focuses on three aspects of MLD 1 specification of a probability model for the system s measured output 2 determination of an appropriate likelihood function and 3 maximization of that likelihood function Many practical algorithms are obtained Computational aspects of MLD are described in great detail Extensive simulations are provided including real data applications      **Aspects of Seismic Reflection Data Processing** R. Marschall,2012-12-06      **Applied Geophysics** W. M. Telford,L. P. Geldart,R. E. Sheriff,1990-10-26 This is the completely revised and updated version of the popular and highly regarded textbook Applied Geophysics It describes the physical methods involved in exploration for hydrocarbons and minerals which include gravity magnetic seismic electrical electromagnetic radioactivity and well logging methods All aspects of these methods are described including basic theory field equipment techniques of data acquisition data processing and interpretation with the objective of locating commercial deposits of minerals oil and gas and determining their extent In the fourteen years or so since the first edition of Applied Geophysics many changes have taken place in this field mainly as the result of new techniques better instrumentation and increased use of computers in the field and in the interpretation of data The authors describe these changes in considerable detail including improved methods of solving the inverse problem specialized seismic methods magnetotellurics as a practical exploration method time domain electromagnetic methods increased use of gamma ray spectrometers and improved well logging methods and interpretation      Practical Seismic Data Analysis Hua-Wei Zhou,2014-01-23 Modern introduction to seismic data processing demonstrating exploration and global geophysics applications through real data and tutorial examples that can be demonstrated with the instructor s software of choice The underlying physics and mathematics of analysis methods is presented showing students the limitations and potential for creating models of the sub surface      **Technologies for Improving the Evaluation and Repair of Concrete**

**Bridge Decks**, 1998      Frontiers of Remote Sensing Information Processing C. H. Chen, 2003 Written by leaders in the field of remote sensing information processing this book covers the frontiers of remote sensors especially with effective algorithms for signal image processing and pattern recognition with remote sensing data Sensor and data fusion issues SAR images hyperspectral images and related special topics are also examined Techniques making use of neural networks wavelet transforms and knowledge based systems are emphasized A special set of three chapters is devoted to seismic analysis and discrimination In summary the book provides an authoritative treatment of major topics in remote sensing information processing and defines new frontiers for these areas Contents Data Mining SAR Image Processing Wavelet Analysis and Applications Military Applications of Remote Sensing Microwave Remote Sensing Statistical Pattern Recognition Automatic Target Segmentation Neural Networks Change Detection Seismic Signal Processing Time Series Prediction Image Compression Emerging Topics Readership Engineers and scientists dealing with remote sensing data in particular and signals and images in general computer scientists involved in software development on geophysical data analysis      **Review of Progress in Quantitative Nondestructive Evaluation** Donald O. Thompson, Dale E. Chimenti, 2013-12-01 This volume Parts A and B contains the edited papers presented at the annual Review of Progress in Quantitative Nondestructive Evaluation held at Bowdoin College Brunswick ME on July 24 28 1989 The Review was organized by the Center for Advanced NDE at the Ames Laboratory of the U S Department of Energy in cooperation with the Office of Basic Energy Sciences USDOE and the Materials Laboratory at Wright Patterson Air Force Base The statistics for the 1989 Review of Progress in QNDE include a total of over 460 participants from the U S and nine foreign countries who presented some 325 papers Over the years this conference has grown into one of the largest most significant gatherings of NDE researchers and engineers in the world The meeting was divided into 35 sessions with as many as four sessions running concurrently and covering all stages of NDE development from basic research investigations to early engineering applications and all methods of inspection science from ultrasonics to x ray tomography The Editors have organized the papers in the Proceedings according to topical subject headings rather than in the original order of presentation This rearrangement yields a more user friendly reference work and follows a pattern now familiar to regular attendees of the Review Some changes in the headings and their subcategories have been introduced to accommodate dynamic evolution of the field as we observe it      **Seismic Data Interpretation using Digital Image Processing** Abdullatif A. Al-Shuhail, Saleh A. Al-Dossary, Wail A. Mousa, 2017-06-05 Bridging the gap between modern image processing practices by the scientific community at large and the world of geology and reflection seismology This book covers the basics of seismic exploration with a focus on image processing techniques as applied to seismic data Discussions of theories concepts and algorithms are followed by synthetic and real data examples to provide the reader with a practical understanding of the image processing technique and to enable the reader to apply these techniques to seismic data The book will also help readers interested in devising new algorithms software and hardware for

interpreting seismic data Key Features Provides an easy to understand overview of popular seismic processing and interpretation techniques from the point of view of a digital signal processor Presents image processing concepts that may be readily applied directly to seismic data Includes ready to run MATLAB algorithms for most of the techniques presented The book includes essential research and teaching material for digital signal and image processing individuals interested in learning seismic data interpretation from the point of view of digital signal processing It is an ideal resource for students professors and working professionals who are interested in learning about the application of digital signal processing theory and algorithms to seismic data

**Advances in ocean bottom seismology** Francisco Javier Nuñez-Cornu, Susan Bilek, Nathaniel Lindsey, Diana Núñez, Charlotte A. Rowe, 2023-03-27 *Elements of 3D Seismology, third edition*

Christopher L. Liner, 2016-10-15 *Elements of 3D Seismology* third edition is a thorough introduction to the acquisition processing and interpretation of 3D seismic data This third edition is a major update of the second edition Sections dealing with interpretation have been greatly revised in accordance with improved understanding and availability of data and software Practice exercises have been added as well as a 3D seismic survey predesign exercise Discussions include conceptual and historical foundations of modern reflection seismology an overview of seismic wave phenomena in acoustic elastic and porous media acquisition principles for land and marine seismic surveys methods used to create 2D and 3D seismic images from field data concepts of dip moveout prestack migration and depth migration concepts and limitations of 3D seismic interpretation for structure stratigraphy and rock property estimation and the interpretation role of attributes impedance estimation and AVO This book is intended as a general text on reflection seismology including wave propagation data acquisition processing and interpretation and will be of interest to entry level geophysicists experts in related fields geology petroleum engineering and experienced geophysicists in one subfield wishing to learn about another e g interpreters wanting to learn about seismic waves or data acquisition

**Seismic Inversion & Deconvolution** Enders A. Robinson, 1999

*Seismic Attributes for Prospect Identification and Reservoir Characterization* Satinder Chopra, K. J. Marfurt, 2007

Introducing the physical basis mathematical implementation and geologic expression of modern volumetric attributes including coherence dip azimuth curvature amplitude gradients seismic textures and spectral decomposition the authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing Seismic attributes play a key role in exploration and exploitation of hydrocarbons In *Seismic Attributes for Prospect Identification and Reservoir Characterization* SEG Geophysical Developments No 11 the authors introduce the physical basis mathematical implementation and geologic expression of modern volumetric attributes including coherence dip azimuth curvature amplitude gradients seismic textures and spectral decomposition The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing Examples from different basins illustrate the attribute expression of tectonic deformation clastic depositional systems carbonate depositional systems and diagenesis drilling

hazards and reservoir characterization The book is illustrated generously with color figures throughout Seismic Attributes will appeal to seismic interpreters who want to extract more information from data seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays sedimentologists stratigraphers and structural geologists who use large 3D seismic volumes to interpret their plays within a regional basinwide context and reservoir engineers whose work is based on detailed 3D reservoir models Copublished with EAGE

**Processing of Seismic Reflection Data Using MATLAB** Wail A. Mousa, Abdullatif A. Al-Shuhail, 2022-05-31 This short book is for students professors and professionals interested in signal processing of seismic data using MATLAB™ The step by step demo of the full reflection seismic data processing workflow using a complete real seismic data set places itself as a very useful feature of the book This is especially true when students are performing their projects and when professors and researchers are testing their new developed algorithms in MATLAB™ for processing seismic data The book provides the basic seismic and signal processing theory required for each chapter and shows how to process the data from raw field records to a final image of the subsurface all using MATLAB™ The MATLAB™ codes and seismic data can be downloaded here Table of Contents Seismic Data Processing A Quick Overview Examination of A Real Seismic Data Set Quality Control of Real Seismic Data Seismic Noise Attenuation Seismic Deconvolution Carrying the Processing Forward Static Corrections Seismic Migration Concluding Remarks

**Engineering Seismology with Applications to Geotechnical Engineering** Öz Yilmaz, 2015-05-20 The scope of engineering seismology includes geotechnical site investigations for buildings and engineering infrastructures such as dams levees bridges and tunnels landslide and active fault investigations seismic microzonation and geophysical investigations of historic buildings These projects require multidisciplinary participation by the geologist geophysicist and geotechnical and earthquake engineers A key objective of this book SEG Investigations in Geophysics Series No 17 by z Yilmaz is to encourage the specialists from these disciplines to apply the seismic method to solve the many challenging engineering problems they face The broader scope of engineering seismology also includes exploration of earth resources including groundwater exploration coal and mineral exploration and geothermal exploration While focusing on the application of the seismic method to geotechnical site investigations this book includes many case studies in all of the applications of engineering seismology

**Petroleum Exploration: A Quantitative Introduction** Ray L. Sengbush, 2012-12-06 This book is about exploration for oil and gas and focuses particularly on seismic exploration in the hunt for hydrocarbons The first part The Hunt for Hydrocarbons gives general background information with an introductory chapter on the beginnings of the oil business followed by three chapters that include elements of petroleum geology geophysical methods and drilling and logging The second part Seismic Exploration for Hydrocarbons consists of two chapters that describe rudiments of the seismic method and velocity measurements two chapters discussing theory based on wave propagation and the convolutional model and a chapter devoted to each of the three phases of seismic exploration acquisi

tion processing and interpretation I have concentrated on seismic exploration because most of the oil and gas that has been found has been located by this method and it is the only method that has the potential for the increased precision needed in what Halbouty 1982 calls the deliberate search for the subtle trap In contrast to elementary and introductory books that present the seismic method superficially and qualitatively this book develops the method quantitatively using only elementary mathematics algebra and trigonometry so that readers should be able to do things afterwards that they couldn't do before and thereby get a deeper appreciation of the business of hunting for hydrocarbons The book also probes into some sophisticated topics that wouldn't be mentioned in use in short courses at a variety of levels



## Decoding **Seismic Velocity Analysis And The Convolutional Model**: Revealing the Captivating Potential of Verbal Expression

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 power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Seismic Velocity Analysis And The Convolutional Model**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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