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# Seismic Signatures and Analysis of Reflection Data in Anisotropic Media

by L. Treviskin

# Seismic Signatures And Analysis Of Reflection Data In Anisotropic Media

**Keiiti Aki, Paul Richards**



## **Seismic Signatures And Analysis Of Reflection Data In Anisotropic Media:**

*Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* Ilya Tsvankin, 2012 This is the third edition of Ilya Tsvankin's reference volume on seismic anisotropy and application of anisotropic models in reflection seismology. *Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* Geophysical References Series No 19 provides essential background information about anisotropic wave propagation, introduces efficient notation for transversely isotropic TI and orthorhombic media, and identifies the key anisotropy parameters for imaging and amplitude analysis. To gain insight into the influence of anisotropy on a wide range of seismic signatures, exact solutions are simplified in the weak anisotropy approximation. Particular attention is given to moveout analysis and P wave time domain processing for transverse isotropy with a vertical VTI and tilted TTI symmetry axis. Description of the amplitude variation with offset (AVO) response of P and S waves in TI media shows that anisotropy may cause serious distortions in both the reflection coefficient and geometrical spreading factor. The far-reaching benefits of anisotropic processing methods are demonstrated on synthetic examples and field data.

**Seismic Signatures and Analysis of Reflection Data in Anisotropic Media** I. D. Tsvankin, 2012 This is a new edition of Ilya Tsvankin's reference volume on seismic anisotropy and application of anisotropic models in reflection seismology. It provides essential background information about anisotropic wave propagation, introduces efficient notation for transversely isotropic TI and orthorhombic media, and identifies the key anisotropy parameters for imaging and amplitude analysis. To gain insight into the influence of anisotropy on a wide range of seismic signatures, exact solutions are simplified in the weak anisotropy approximation.

**Seismic Signatures and Analysis of Reflection Data in Anisotropic Media** I. Tsvankin, 2005-06-13 Following the breakthrough in the last decade in identifying the key parameters for time and depth imaging in anisotropic media and developing practical methodologies for estimating them from seismic data, *Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* primarily focuses on the far-reaching exploration benefits of anisotropic processing. This volume provides the first comprehensive description of reflection seismic signatures and processing methods in anisotropic media. It identifies the key parameters for time and depth imaging in transversely isotropic media and describes practical methodologies for estimating them from seismic data. Also, it contains a thorough discussion of the important issues of uniqueness and stability of seismic velocity analysis in the presence of anisotropy. The book contains a complete description of anisotropic imaging methods from the theoretical background to algorithms to implementation issues. Numerous applications to synthetic and field data illustrate the improvements achieved by the anisotropic processing and the possibility of using the estimated anisotropic parameters in lithology discrimination. Focuses on the far-reaching exploration benefits of anisotropic processing. First comprehensive description of reflection seismic signatures and processing methods in anisotropic media.

**Seismic Signatures and Analysis of Reflection Data in Anisotropic Media** I. D. Tsvankin, 2012

*Seismic signatures and analysis of reflection data in anisotropic media* I. D. Tsvankin, 2001 **Seismology of**

**Azimuthally Anisotropic Media and Seismic Fracture Characterization** I. D. Tsvankin, 2011 Because most sedimentary rocks encountered in oil and gas exploration are effectively anisotropic it is imperative to properly estimate seismic anisotropy and incorporate it into data processing and imaging algorithms *Seismology of Azimuthally Anisotropic Media and Seismic Fracture Characterization* SEG Geophysical References Series No 17 presents a systematic analysis of seismic signatures for azimuthally anisotropic media and describes anisotropic inversion processing methods for wide azimuth reflection data and VSP vertical seismic profiling surveys The main focus is on kinematic parameter estimation techniques operating with P waves as well as with the combination of PP and PS mode converted data The part devoted to prestack amplitudes includes azimuthal AVO amplitude variation with offset analysis and a concise treatment of attenuation coefficients which are highly sensitive to the presence of anisotropy Discussion of fracture characterization is based on modern effective media theories and illustrates both the potential and limitations of seismic methods Field data examples highlight the improvements achieved by accounting for anisotropy in seismic processing imaging and fracture detection

**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      **Reservoir Characterization, Modeling and Quantitative Interpretation** Shib Sankar Ganguli, V.P. Dimri, 2023-10-27 *Reservoir Characterization Modeling and Quantitative Interpretation Recent Workflows to Emerging Technologies* offers a wide spectrum of reservoir characterization techniques and technologies focusing on the latest breakthroughs and most efficient methodologies in hydrocarbon exploration and development Topics covered include 4D seismic technologies AVAZ inversion fracture characterization multiscale imaging technologies static and dynamic reservoir characterization among others The content is delivered through an inductive approach which will help readers gain comprehensive insights on advanced practices and be able to relate them to other subareas of reservoir characterization including CO<sub>2</sub> storage and data driven modeling This will be especially useful for field scientists in collecting and analyzing field data prospect evaluation developing reservoir models and adopting new technologies to mitigate exploration risk They will be able to solve the practical and challenging problems faced in the field of reservoir characterization as it will offer systematic industrial workflows covering every aspect of this branch of Earth Science including subsurface geoscientific perspectives of carbon geosequestration This resource is a 21st Century guide for exploration geologists geoscience students at postgraduate level and above and petrophysicists working in the oil and gas industry Covers the latest and most effective technologies in reservoir characterization including Avo analysis AVAZ inversion wave field separation and Machine Learning techniques Provides a balanced blend of both theoretical and practical approaches for solving challenges in reservoir characterization Includes detailed industry standard practical workflows along with code structures for algorithms and practice exercises      **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 *Seismic Waves and Rays in Elastic Media* Michael A. Slawinski, 2003 This book seeks to explore seismic phenomena in elastic media and emphasizes the interdependence of mathematical formulation and physical meaning The purpose of this title which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology is to use aspects of continuum mechanics wave theory and ray theory to describe phenomena resulting from the propagation of waves The book is divided into three parts Elastic continua Waves and rays and Variational formulation of rays In Part I continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such material In Part II these equations are used to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua the high frequency approximation is used and establishes the concept of a ray In Part III it is shown that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary travel time *Seismic While Drilling* F.B Poletto, F. Miranda, 2004-06-30 The purpose of this book is to give a theoretical and practical introduction to seismic while drilling by using the drill bit noise This recent technology offers important products for geophysical control of drilling It involves aspects typical of borehole seismics and of the drilling control surveying hitherto the sole domain of mudlogging For aspects related to the drill bit source performance and borehole acoustics the book attempts to provide a connection between experts working in geophysics and in drilling There are different ways of thinking related to basic knowledge operational procedures and precision in the observation of the physical quantities The goal of the book is to help build a bridge between geophysicists involved in seismic while drilling who may need to familiarize themselves with methods and procedures of drilling and drilling rock mechanics and drillers involved in geosteering and drilling of smart wells who may have to familiarize themselves with seismic signals wave resolution and radiation For instance an argument of common interest for drilling and seismic while drilling studies is the monitoring of the drill string and bit vibrations This volume contains a large number of real examples of SWD data analysis and applications

**Computational Neural Networks for Geophysical Data Processing** M.M. Poulton, 2001-06-13 This book was primarily written for an audience that has heard about neural networks or has had some experience with the algorithms but would like to gain a deeper understanding of the fundamental material For those that already have a solid grasp of how to create a neural network application this work can provide a wide range of examples of nuances in network design data set design testing strategy and error analysis Computational rather than artificial modifiers are used for neural networks in this book to make a distinction between networks that are implemented in hardware and those that are implemented in software The term artificial neural network covers any implementation that is inorganic and is the most general term Computational neural networks are only implemented in

software but represent the vast majority of applications While this book cannot provide a blue print for every conceivable geophysics application it does outline a basic approach that has been used successfully **Principles of Petroleum Geoscience** Ashok Vaidya,2025-02-20 Principles of Petroleum Geoscience offers a comprehensive exploration of essential concepts and methodologies in the field Authored by experts we bridge geology geophysics engineering and environmental science providing an interdisciplinary perspective Our topics span sedimentary basin analysis reservoir characterization seismic interpretation and well logging along with the latest advancements in research and technology We present real world examples and case studies to illustrate practical applications in petroleum exploration and production helping readers grasp complex ideas through practical insights With up to date content this resource is invaluable for students researchers and professionals in petroleum geoscience equipping them to meet modern challenges in hydrocarbon exploration and development

**Reflection Coefficients and Azimuthal AVO Analysis in Anisotropic Media** Mark Naumovich Berdichevskii,Andreas Rüger,2002 Observing offset dependent seismic reflectivity has proven to be a valuable exploration tool for the direct detection of hydrocarbons This monograph provides a comprehensive review of reflection coefficients and their approximations in isotropic media followed by an in depth discussion of reflection amplitudes in anisotropic media No prior knowledge of seismic anisotropy is assumed and considerable effort is spent to introduce wave propagation and medium parameterizations useful for surface seismic applications in the presence of anisotropy The first anisotropic model discussed is transverse isotropy with a vertical axis of symmetry VTI media typically used to describe shale sequences Then the study of VTI reflection coefficients is extended to transverse isotropy with a horizontal axis of symmetry HTI the symmetry system that describes a system of parallel vertical cracks Analysis of the Shuey type approximate HTI P wave reflection coefficient makes it possible to devise fracture detection algorithms based on the inversion of azimuthal differences of the P wave AVO gradient The monograph also presents analysis of shear and converted wave reflection coefficients for HTI and orthorhombic models discusses practical aspects of applying the azimuthal AVO analysis and mentions promising recent results

**The Rock Physics Handbook** Gary Mavko,Tapan Mukerji,Jack Dvorkin,2009-04-30 A significantly expanded new edition of this practical guide to rock physics and geophysical interpretation for reservoir geophysicists and engineers

**Quantitative Seismology** Keiiti Aki,Paul Richards,2002-09-21 This book provides a unified treatment of seismological methods that will be of use to advanced students seismologists and scientists and engineers working in all areas of seismology This new edition of the classic text by Aki and Richards has at last been updated throughout to systematically explain key concepts in seismology Now in one volume the book provides a unified treatment of seismological methods that will be of use to advanced students seismologists and scientists and engineers working in all areas of seismology

**Active Geophysical Monitoring** ,2010-03-05 Active geophysical monitoring is an important new method for studying time evolving structures and states in the tectonically active Earth s lithosphere It is based on repeated time lapse observations and

interpretation of rock induced changes in geophysical fields periodically excited by controlled sources In this book the results of strategic systematic development and the application of new technologies for active geophysical monitoring are presented The authors demonstrate that active monitoring may drastically change solid Earth geophysics through the acquisition of substantially new information based on high accuracy and real time observations Active monitoring also provides new means for disaster mitigation in conjunction with substantial international and interdisciplinary cooperation Introduction of a new concept Most experienced authors in the field Comprehensiveness

**Introduction to Petroleum Seismology, second edition** Luc T. Ikelle ,Lasse Amundsen,2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing Another major modification in this edition is that each chapter contains analytical problems as well as computational problems These problems include MatLab codes which may help readers improve their understanding of and intuition about these materials The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry

**Understanding Seismic Anisotropy in Exploration and Exploitation** Leon Thomsen,2002 All rock masses are seismically anisotropic but we generally ignore this in our seismic acquisition processing and interpretation The anisotropy nonetheless does affect our data in ways that limit the effectiveness with which we can use it as long as we ignore it This book produced for use with the fifth SEG EAGE Distinguished Instructor Short Course helps us understand why this inconsistency between reality and practice has been so successful in the past and why it will be less successful in the future as we acquire better seismic data especially including vector seismic data and correspondingly higher expectations of it This book helps us understand how we can modify our practice to more fully realize the potential inherent in our data through algorithms which recognize the fact of seismic anisotropy

*New Frontiers in Oil and Gas Exploration* Congrui Jin,Gianluca Cusatis,2016-10-07 This contributed volume presents a multi perspective collection of the latest research findings on oil and gas exploration and imparts insight that can greatly assist in understanding field behavior design of test programs and design of field operations With this book engineers also gain a powerful guide to the most commonly used numerical simulation methods that aid in reservoir modelling In addition the contributors explore development of technologies that allow for cost effective oil and gas



exploration while minimizing the impact on our water resources surface and groundwater aquifers geological stability of impacted areas air quality and infrastructure assets such as roads pipelines water and wastewater networks Easy to understand the book identifies equipment and procedural problems inherent to oil and gas operations and provides systematic approaches for solving them

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