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Seismic Signatures and Analysis of Reflection Data in Anisotropic Media

by L. Treutlein

Seismic Signatures And Analysis Of Reflection Data In Anisotropic Media

Michael A. Slawinski



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 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 CO₂ 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

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

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