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Understanding Seismic Anisotropy in Exploration and Exploitation

second edition

presented by
Leon Thomsen



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Understanding Seismic Anisotropy In Exploration And Exploitation Second Edition

Leon Thomsen



Understanding Seismic Anisotropy In Exploration And Exploitation Second Edition:

Understanding Seismic Anisotropy in Exploration and Exploitation, Second Edition Leon Thomsen, 2014-10-01

Understanding Seismic Anisotropy in Exploration and Exploitation second edition by Leon Thomsen is designed to show you how to recognize the effects of anisotropy in your data and to provide you with the intuitive concepts that you will need to analyze it. Since its original publication in 2002, seismic anisotropy has become a mainstream topic in exploration geophysics. With the emergence of the shale resource play, the issues of seismic anisotropy have become central because all shales are seismically anisotropic, whether fractured or not. With the advent of wide azimuth surveying, it has become apparent that most rocks are azimuthally anisotropic with P wave velocities and P AVO gradients varying with source-receiver azimuth. What this means is that analysis of such data with narrow azimuth algorithms and concepts will necessarily fail to get the most out of this expensively acquired data. The issues include not only seismic wave propagation but also seismic rock physics. Isotropic concepts including velocity, Young's modulus, and Poisson's ratio have no place in the discussion of anisotropic rocks unless qualified in some directional way, e.g., vertical Young's modulus. Likewise, fluid substitution in anisotropic rocks using the isotropic Biot-Gassmann formula leads to formal errors because the bulk modulus does not appear in a natural way within the anisotropic P wave velocity. This updated edition is now current as of 2014.

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.

Anisotropy and Microseismics: Theory and Practice Vladimir Grechka, 2020-08-01. Downhole microseismic monitoring of stimulation and production of unconventional reservoirs has resulted in renewed industry interest in seismic anisotropy. This occurred not only because anisotropy of hydrocarbon-bearing shales is among the strongest in rocks but also because downhole microseismics shifts the focus from the standard exploration of P waves to shear waves. The consequences of the difference in wave type are profound for geophysicists because everyone involved, from theoreticians to developers and users of microseismic data processing software, must be aware of shear wave splitting singularities and multivalued wavefronts which have been largely irrelevant for P waves propagating in relatively simple geologic settings. Anisotropy and Microseismics leads readers on a path of discovery of rarely examined wave phenomena and their possible usage. Most of the chapters begin by formulating a question followed by explanations of what is exciting about it where the mystery might lie.

and what could be the potential value of answering the question. Importantly the findings entail useful applications as showcased by the unmistakably practical flavor of the chapters on microseismic event location moment tensor inversion and imaging. As an investigation of microseismic methodologies and techniques is conducted it often yields unexpected results.

Understanding Seismic Anisotropy in Exploration and Exploitation Leon Thomsen, 2014 *Microseismic Monitoring* Vladimir Grechka, Werner M. Heigl, 2017-09-01. Over the past decade microseismic monitoring a technology developed for evaluating completions of wells drilled to produce hydrocarbons from unconventional reservoirs has grown increasingly popular among oil and gas companies. *Microseismic Monitoring* by Vladimir Grechka and Werner M. Heigl discusses how to process microseismic data what can and cannot be inferred from such data and to what level of certainty this might be possible. The narrative of the book follows the passage of seismic waves from a source triggered by hydraulic fracture stimulation through hydrocarbon bearing formations towards motion sensors. The waves characteristics encode the location of their source and its focal mechanism. The analysis of various approaches to harvesting the source related information from microseismic records has singled out the accuracy of the velocity model fully accounting for the strong elastic anisotropy of hydraulically fractured shales as the most critical ingredient for obtaining precise source locations and interpretable moment tensors. The ray theory complemented by its modern extensions paraxial and Frchet ray tracing provides the only practical means available today for building such models. The book is written for geophysicists interested in learning and applying advanced microseismic data processing techniques.

The Interdisciplinary Earth: In Honor of Don L. Anderson Gillian R. Foulger, Michele Lustrino, Scott D. King, 2015-09. Copublished with the American Geophysical Union as American Geophysical Union Special Publication 71. This volume is a memorial to Don L. Anderson former director of the Seismological Laboratory of the Caltech Institute of Technology recipient of the Crafoord Prize the National Medal of Honor and numerous other awards. A geophysicist extraordinaire he contributed much to our understanding of the structure and dynamics of the interior of Earth. The book comprised largely of chapters written at Anderson's invitation reflects his interdisciplinary career. It includes papers on anisotropy the seismic structure of the mantle mantle convection the statistics of melting anomalies planetary geology tectonics the thermal budget of Earth lithospheric structure geochemistry and flood basalts.

Encyclopedic Dictionary of Applied Geophysics Robert E. Sheriff, 2002. The fourth edition of SEG's best seller is a valuable comprehensive reference that is a must for every geophysicist geologist explorationist engineer energy adviser economist editor and student involved in the field. Hundreds of terms have been added since publication of the third edition in 1991 reflecting rapid evolution of the science especially in the areas of engineering and production problems 3D including multicomponent acquisition and processing visualization S and converted waves interpretation anisotropy AVO geostatistics geohazards neural networks tomography downhole measurements horizontal drilling and deepwater work. Definitions of hundreds of other terms have been updated. The dictionary's title has been modified slightly to reflect growth in application.

of geophysical methods with the word Applied replacing the word Exploration The dictionary includes a guide to pronunciation and a list of reference figures and tables A CD containing the dictionary in searchable PDF format also is included The Relationship Between Damage and Localization Helen Lewis,G. D. Couples,2007 The many kinds of porous geomaterials rocks soils concrete etc exhibit a range of responses when undergoing inelastic deformation In doing so they commonly develop well ordered fabric elements forming fractures shear bands and compaction bands so creating the planar fabrics that are regarded as localization Because these induced localization fabrics alter the bulk material properties such as permeability acoustic characteristics and strength it is important to understand how and why localization occurs and how it relates to its setting The concept of damage in several uses describes both the precursor to localization and the context within which it occurs A key theme is that geomaterials display a strong material evolution during deformation revealing a close linkage between the damage and localization processes This volume assembles perspectives from a number of disciplines including soil mechanics rock mechanics structural geology seismic anisotropy and reservoir engineering The papers range from theoretical to observational and include contributions showing how the deformed geomaterial s emergent bulk characteristics like permeability and seismic anisotropy can be predicted **Special Papers** ,1934 **Expanded Abstracts with Biographies** ,2004

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