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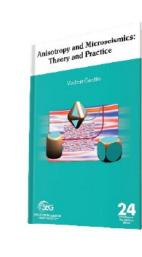
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Anisotropy and Microseismics: Theory and Practice Vladimir Grechka

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 dataprocessing 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.

Catalog # 184A-20 ISBN 978-1-56080-374-4, 492 pages SEG Member \$82.00, List \$149

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Basic Wave Analysis Enders A. Robinson and Tijmen Jan Moser

Written in three parts, *Basic Wave Analysis* provides the information required for understanding the fundamental aspects of the elaborate computer processing schemes prevalent in exploration geophysics. Part 1 addresses velocity analysis. The correct determination of velocity is the most important problem in seismic exploration, and an understanding of velocity analysis is a valuable asset for a geophysicist. Part 2 discusses raypath analysis. Raypaths provide a geometrical picture of how waves travel, so that a person can visualize raypaths in their imagination. Geometrical pictures are as important in seismology as they are in optics. Part 3 addresses wavefront analysis. A person cannot easily visualize traveling wavefronts in their imagination; however, a computer can follow their motion and give the geophysicist the final outcome. Knowledge of wavefront analysis helps a geophysicist understand many modern computer methods. Alongside contemporary technical information, however, this book also serves to remind the readers of our pioneering ancestors of scientific research. Too often, the study of science pays minimal attention to the historical forbearers to whom we owe much. On the contrary, the stories of these important figures provide fascinating insight into the development of ideas which underpin our work today.

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Blizzards and Broken Grousers: A Year of Antarctic Glaciology Les R. Denham

A rare personal account of a scientific journey, this memoir details one year of field operations in 1970–71, acquiring ice thickness data with radar, gravity measurements, and magnetometer measurements in Antarctica. Compiled from official logs, personal papers, and memories, *Blizzards and Broken Grousers* reminds us of the pioneering spirit of geophysics in the time when field operations reached the ends of the earth and exploration was not confined to offices and computer processing systems. This book provides a detailed account of the author's Antarctic experience in a time before GPS, satellite communications, internet, and even links to Antarctica by air. Moreover, although it was not obvious at the time, the data collected from this work provide the underpinnings of the currently accepted theory on the movement of glacial icecaps, including models of ice behavior and the interaction of ice and climate that have been used extensively in assessments of future climate change.

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Survey Design and Seismic Acquisition for Land, Marine, and In-between in Light of New Technology and Techniques David J. Monk

Seismic surveys are subject to many different design criteria, but often the parameters are established based on an outdated view of how data can be acquired and how it will be processed. This book, which accompanies the 2020 SEG Distinguished Instructor Short Course, highlights what is possible using modern acquisition methods, techniques, and equipment, and how these may impact seismic survey design and acquisition. Beginning with the fundamentals of survey design, the changes in technology we have witnessed in the past five years, as well as changes that are likely to develop in the next five to ten years, are highlighted with a view to allowing seismic surveys to be designed and acquired to optimize technology efficiencies and interpretation requirements. Although specific survey designs for particular geologic objectives are not described, the information included encourages readers to understand: the basic geophysical requirements of a seismic survey based on geologic objectives; the differences between classic survey design and what is required for modern high-end processing techniques; the concepts of simultaneous sources, compressive sensing, node acquisition, and broadband data as well as how these fit into survey design techniques; the relationship between acquisition parameters and seismic image quality; and how the basic requirements tied to modern acquisition and processing ideas can fundamentally change the data that is presented to an interpreter, and why final data volumes can look significantly different from legacy data. All those interested in seismic surveys will learn something from the material in this book.

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Coming Soon! Expected release date of November 2020

Simultaneous Source Seismic Acquisition

by Ray Abma and Mark S. Foster

Through the unique perspective of the authors on the development of this technology, readers will discover not only the development processes within BP but also some of the fundamental technology underlying successful deployment of independent simultaneous source acquisition.

Illustrated Seismic Processing, Volume 2: Preimaging

by Stephen J. Hill and Andreas Rüger

By starting with migration in Volume 1 and concluding with deconvolution in this volume, this text presents seismic processing topics in a reversed order compared to a customary processing sequence. The reader will examine input requirements for algorithms and then be equipped to understand the processing flow algorithms themselves.

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Numerical Modeling of Seismic Responses from Fractured Reservoirs by the Grid-characteristic Method

Vladimir Leviant, Igor Kvasov, and Igor Petrov

Using the direct seismic responses of fractures and fracture zones in productive formations to obtain information about their locations and characteristics is an essentially new and promising direction of investigation. Given the growing production of hydrocarbons from unconventional reservoirs, the basic understanding of seismic wave responses of natural and hydraulic fractures is urgently needed, and the ability to model those waves is a necessary first step toward detection and more accurate characterization of fractured reservoirs and through this process toward improved oil production. This book addresses the properties of seismic waves of fractured media by describing, modeling, and analyzing the various seismic wave responses from discrete fractured media, and it proposes a methodology for the direct detection of fractured reservoirs based on these analyses. Use of the grid-characteristic method to numerically model the waves allows for the inclusion of fundamental properties of real fractured reservoirs and fractured features in the analysis. Importantly, this method facilitates a highly accurate computation of wave propagation that accounts for the multiple discreteness of the medium. Of use to oil company geophysicists and geologists directly involved in interpretation of seismic data acquired from prospects of fractured reservoir development, this book also will be of interest to scientific workers in universities (particularly postgraduate students) and R&D departments of geophysical and oil companies.

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Understanding Signals: Basic waveform analysis from a geophysical perspective Michael Burianyk

Written for students as well as professionals who work with and support geophysicists, this book presents a simple and informal discussion of fundamental concepts which underlie the quantitative part of geophysical analysis and interpretation. These general concepts are applicable for an analytical approach to any phenomena that can be measured and recorded. With examples and figures created using Microsoft Excel[®], this book is accessible and insightful. Topics covered include: the concept of signals based on the sine function; the summation of sine waves as a more complicated signal; the notion of Fourier series and the spectral representation of signals; digital sampling and discrete representation of signals; the discrete Fourier transform and inverse transform; the concept of filtering in the spectral domain; and the idea of filtering outside of the spectral domain, by convolution, and the relationship between the measurement and spectral domains. This book will be valuable for geologists, junior seismic interpreters, software developers, high school and university students, and geophysical professionals seeking a refresher of the basic concepts.

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Illustrated Seismic Processing, Vol. 1: Imaging Stephen J. Hill and Andreas Rüger

This book provides a foundation for understanding the vigorous, relevant, and fascinating field of seismic processing. Written for the non-expert, this introductory text reveals the limitations and potential pitfalls of seismic data, prepares both seismic interpreters and acquisition specialists for working with seismic processing geophysicists, explains seismic processing operations as a series of solutions to problems, and demonstrates the dependence of a final interpretable seismic volume on its many seismic processing decisions. Although seismic processing is inherently mathematical, this text uses numerous illustrations and real data examples, providing an intuitive understanding of the seismic processing procedures and resorting to an algebra-based argument only on rare occasions. By starting with migration and concluding with deconvolution in volume two, this text presents seismic processing topics in order reverse of a typical processing sequence. Through this reverse ordering, the reader understands an algorithm's input requirements, providing motivation for understanding the preceding algorithm in the processing sequence.

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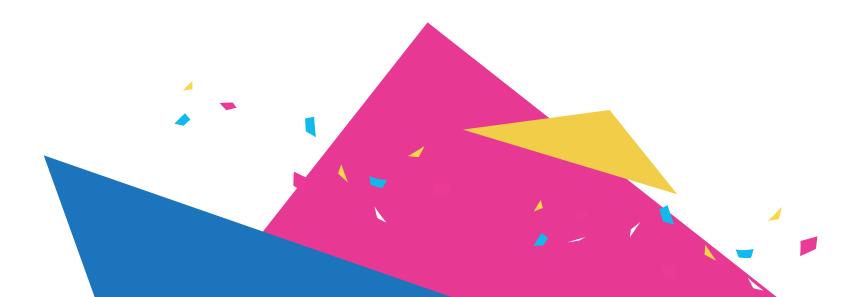
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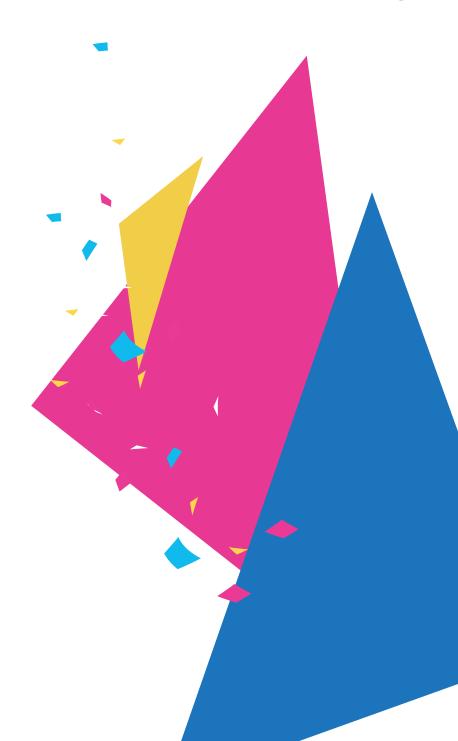
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