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This book examines the differences between an ideal and a real description of wave propagation, where ideal means an elastic (lossless), isotropic and single-phase medium, and real means an anelastic, anisotropic and multi-phase medium. The analysis starts by introducing the relevant stress-strain relation. This relation and the equations of momentum conservation are combined to give the equation of motion. The differential formulation is written in terms of memory variables, and Biot's theory is used to describe wave propagation in porous media. For each rheology, a plane-wave analysis is performed in order to understand the physics of wave propagation. The book contains a review of the main direct numerical methods for solving the equation of motion in the time and space domains. The emphasis is on geophysical applications for seismic exploration, but researchers in the fields of earthquake seismology, rock acoustics, and material science - including many branches of acoustics of fluids and solids - may also find this text useful. * Presents the fundamentals of wave propagation in anisotropic, anelastic and porus media * Contains a new chapter on the analogy between acoustic and electromagnetic waves, incorporating the subject of electromagnetic waves * Emphasizes geophysics, particularly, seismic exploration for hydrocarbon reservoirs, which is essential for exploration and production of oil

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This monograph is the last volume in the series "Acoustic and

Elastic Wave Fields in Geophysics". The previous two volumes published by Elsevier (2000, 2002) dealt mostly with wave propagation in liquid media. The third volume is dedicated to propagation of plane, spherical and cylindrical elastic waves in different media including isotropic and transversely isotropic solids, liquid-solid models, and media with cylindrical inclusions (boreholes). * Prevalence of physical reasoning on formal mathematical derivations * Readers do not need to have a strong background in mathematics and mathematical physics * Detailed analysis of wave phenomena in various types of elastic and liquid-elastic media

Until recently, the interpretation of data obtained in seismic exploration has been based on comparatively simple representations of the Earth. The most commonly used representation for the Earthhas been a set of thick layers, each characterized by a single value for the propa gation speed of seismic waves. During the last several years, more complicated representa tions in the form of thin layers with vertical velocity gradients, as weIl as homogeneous thin layers have been considered. New methods for studying propagation speeds in a medium, particularly ultrasonic logging methods, and the results of theoretical and experimental studies of the dynamic characteristics of seismic waves have revealed that areal Earth is considerably more complicated than the simple models accepted in the past. This has led to a need for more realistic representations of the real Earth as a medium through wh ich seismic waves propagate. Because of this, tlie Department of Seismic Exploration Methods of the Institute of Physics of the Earth of the Acad emy of

Sciences of the USSR has been carrying out both experimental and theoretical studies on the topic "Selection of Physical Representations of Actual Media and the Study of the Correspond ing Wave Propagation Effects. " Three major subdivisions have been recognized within this over all pro gram: 1. The establishment of a direct relationship between the structure of a real medium and the basic wave-propagation characteristics.

This monograph provides a comprehensive overview of the author's work on the fields of fractional calculus and waves in linear viscoelastic media, which includes his pioneering contributions on the applications of special functions of the Mittag-Leffler and Wright types. It is intended to serve as a general introduction to the above-mentioned areas of mathematical modeling. The explanations in the book are detailed enough to capture the interest of the curious reader, and complete enough to provide the necessary background material needed to delve further into the subject and explore the research literature given in the huge general bibliography. This book is likely to be of interest to applied scientists and engineers.

This second edition extends the rigorous, self-contained exposition of the theory for viscoelastic wave propagation in layered media to include head waves and general ray theory. The theory, not published elsewhere, provides solutions for fundamental wave-propagation and ray-theory problems valid for any media with a linear response, elastic or anelastic. It explains measurable variations in wave speed, particle motion, and attenuation of body waves, surface waves, and head waves induced at anelastic material boundaries that do not occur for elastic waves. This book may be used as a textbook for advanced university courses and as a research reference in seismology, exploration geophysics, engineering, solid mechanics, and acoustics. It provides computation steps for ray-tracing computer algorithms to develop a variety of tomography inferred anelastic models, such as those for the Earth's deep interior and petroleum reserves. Numerical results and problem sets emphasize important aspects of the theory for each chapter.

Researchers in the field of exploration geophysics have developed new methods for the acquisition, processing and interpretation of gravity and magnetic data, based on detailed investigations of bore wells around the globe. Fractal Models in Exploration Geophysics describes fractal-based models for characterizing these complex subsurface geological structures. The authors introduce the inverse problem using a fractal approach which they then develop with the implementation of a global optimization algorithm for seismic data: very fast simulated annealing (VFSA). This approach provides high-resolution inverse modeling results—particularly useful for reservoir characterization. Serves as a valuable resource for researchers studying the application of fractals in exploration, and for practitioners directly applying field data for geo-modeling Discusses the basic principles and practical applications of time-lapse seismic reservoir monitoring technology - application rapidly advancing topic Provides the fundamentals for those interested in reservoir geophysics and reservoir simulation study Demonstrates an example of reservoir simulation for enhanced oil recovery using CO2 injection

Caustics, Catastrophes and Wave Fields in a sense continues the treatment of the earlier volume 6 "Geometrical Optics of Inhomogeneous Media" in the present book series, by analysing caustics and their fields on the basis of modern catastrophe theory. This volume covers the key generalisations of geometrical optics related to caustic asymptotic expansions: The Lewis-Kravtsov method of standard functions, Maslov's method of caonical operators, Orlov's method of interference integrals, as well as their modifications for penumbra, space-time, random and other types of caustics. All the methods are amply illustrated by worked problems concerning relevant wave-field applications.

Seismic Wave Propagation in Stratified Media presents a systematic treatment of the interaction of seismic waves with Earth structure. The theoretical development is physically based and is closely tied to the nature of the seismograms observed across a wide range of distance scales - from a few kilometres as in shallow reflection work for geophysical prospecting, to many thousands of kilometres for major earthquakes. A unified framework is presented for all classes of seismic phenomena, for both body waves and surface waves. Since its first publication in 1983 this book has been an important resource for understanding the way in which seismic waves can be understood in terms of reflection and transmission properties of Earth models, and how complete theoretical seismograms can be calculated. The methods allow the development of specific approximations that allow concentration on different seismic arrivals and hence provide a direct tie to seismic observations.