



Seismic Wave Propagation in Real Media: Modeli Real Nykh Sred I Seismicheskie Volnovye Polya

By -

Springer. Paperback. Book Condition: New. Paperback. 208 pages. Dimensions: 11.0in. x 8.3in. x 0.5in. 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 Earth has been a set of thick layers, each characterized by a single value for the propagation speed of seismic waves. During the last several years, more complicated representations in the form of thin layers with vertical velocity gradients, as well 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 the real 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 which seismic waves propagate. Because of this, the Department of Seismic Exploration Methods of the Institute of Physics of the Earth of the Academy of Sciences of the USSR has been carrying out both experimental and theoretical studies on the topic Selection of Physical Representations of...



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