

Geodynamics of Lithosphere & Earth's Mantle

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Reviews

It in a of the best book. Indeed, it really is play, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book. (Sofia Yundt)

GEODYNAMICS OF LITHOSPHERE & EARTH'S MANTLE



Book Condition: New. Publisher/Verlag: Springer, Basel | Seismic Anisotropy as a Record of the Past and Present Dynamic Processes | Reprint from Pure and Applied Geophysics (PAGEOPH), Volume 151 (1998), No. 2/3/4 | Plate tectonics has significantly broadened our view of the dynamics of continental evolution, involving both the processes currently active at the surface and those extending deep into the interior of the Earth. Seismic anisotropy provides some of the most diagnostic evidence for mapping past and present deformation of the entire crustmantle system. This volume contains papers presented originally at an international workshop at the Chateau of Trest in the Czech Republic in 1996. This workshop brought together geophysicists and geologists who work in the field of observational and theoretical seismology, mineral and rock physics, gravity studies and geodynamic modelling. Topics include large-scale anisotropy of the Earth's mantle, mantle heterogeneity vs. anisotropy 3-D velocity and density structures and inferences on mantle dynamics, mineral and rock physics studies, and mathematical aspects of complex wave propagation. Geodynamics of Lithosphère and Earth's Mantle: Seismic Anisotropy as a Record of the Past and Present Dynamic Processes.- I. Large-scale Anisotropy of the Earth's Mantle.- Where Can Seismic Anisotropy Be Detected in the Earth's Mantle? In Boundary Layers.- Agedependent Large-scale Fabric of the Mantle Lithosphere as Derived from Surface-wave Velocity Anisotropy.- On Presence of Seismic Anisotropy in the Asthenosphere beneath Continents and its Dependence on Plate Velocity: Significance of Reference Frame Selection.- Backazimuthal Variations of Splitting Parameters of Teleseismic SKS Phases Observed at the Broadband Stations in Germany.- Anisotropic Measurements in the Rhinegraben Area and the French Massif Central: Geodynamic Implications.- Seismic Anisotropy and Velocity Variations in the Mantle beneath the Saxothuringicum-Moldanubicum Contact in Central Europe.- Anisotropy beneath the Iberian Peninsula: The Contribution of the ILIHA-NARS Broadband Experiment.- Variation of Shear-wave Residuals and...

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