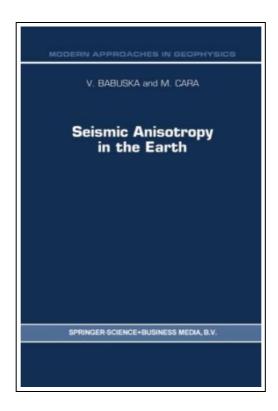
# Seismic Anisotropy in the Earth



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# Reviews

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(Cletus Quigley)

#### SEISMIC ANISOTROPY IN THE EARTH



Book Condition: New. Publisher/Verlag: Springer Netherlands | Structural geologists are well aware of the fact that isotropic rocks are quite exceptional in nature. Whicheverorigin, sedimentary, metamorphicormagmatic, rocks are shaped with a plane of mineral flattening, the foliation in geologists' jargon, and with a line ofmineral elongation, the lineation. Just like a good quarryman, a trained structural geologistwill detectapreferred orientation in an apparently isotropic granite. Preferred mineral orientation and thus structural anisotropy are the rule in nature. Considering the largevariations in elastic coefficients of rock-forming minerals, it could be predicted that, in turn, seismic anisotropy should exist and be important, provided thatdomains withasimilarstructural signatureare largeenough to affectseismic waves. This is why, in 1982 at a conference held in Frankfurt, which was oneofthe first meetings devoted to the subject of seismic anisotropy, I asked Don Anderson the question of why seismologists had not considered earlier in their models the obvious constraint of anisotropy. I still remember Don's answer: "Adolphe, we knew that our isotropic models were not very good but we had no other choice. It is simply that, so far, computerswere not largeenough to integrate the anisotropy parameter". Changing isotropic glasses for anisotropic ones permits us to obtain betterand more realistic seismic modelsofthe Earth's interior, but, maybe more importantly, it has, for a seismologist, the farreaching consequenceofstepping into the fleld ofgeodynamics. | 1 Introduction.- 2 Seismic-Wave Propagation in Anisotropic Media.- 2.1 A simple anisotropic medium: the stack of isotropic layers.- 2.2 Elastic tensors in general anisotropic media.- 2.3 Plane waves in homogeneous anisotropic media.- 2.3.1 Hexagonal symmetry case.- 2.3.2 Phase and group velocities.- 2.3.3 Perturbation theory.- 2.4 Body waves in heterogeneous anisotropic media.- 2.4.1 Ray theory.- 2.4.2 Computational problems.- 2.4.3 Concluding remarks.- 2.5 Surface waves in anisotropic media.- 2.5.1 Love and Rayleigh waves.- 2.5.2 Love/Rayleigh-wave incompatibility.- 2.5.3 Perturbation theory.- 2.5.4 Concluding remarks.- 3 Elastic Anisotropy of Rock-Forming Minerals and Polycrystalline RockS.- 3.1 Methods of investigation.- 3.2...



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