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Seismic Tomography: With Applications in Global Seismology ...

Seismic Tomography with Applications in Global Seismology and Exploration Geophysics. x + 386 pp. Dordrecht, Boston, Lancaster, Tokyo: D. Reidel (Kluwer). Price Dfl 170.00, US \$68.00, UK £46.75 (hard covers), ISBN 90 277 25217 (hard covers), 90 277 2583 7 (paperback). | Geological Magazine | Cambridge Core. Aa.

Seismic Tomography and Its Applications | Request PDF

However, the transform methods make an excellent introduction to the principles of tomography because of their simplicity and serve as a bridge between applications of tomography in other fields with applications in seismology. Also, the development of seismic diffraction tomography has a close relationship with the transform methods.

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yet popular, analogous methods are. Seismic tomography (ST) is a means of making a picture of a slice of the earth using seismic data. Methods to construct images of an object from "projections" of x-rays, ultrasound or electromagnetic waves have found wide applications

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Application of Seismic Tomography and Geotechnical ...

Seismic tomography is a data inference technique that exploits information contained in seismic records to constrain 2D or 3D models of the Earth's interior. It generally requires the solution of a large inverse problem to obtain a heterogeneous seismic model that is consistent with observations.

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In the seismic tomography, data acquisition is carried out with ordinary energy sources, such as hammers, dropping masses, downhole energy sources, and small charges of dynamite, and with standard receivers such as electromagnetic geophones and piezoelectric hydrophones. Figures 2-4 show the most common acquisition schemes in seismic tomography.

Seismic tomography - Wikipedia

applications of seismic tomography to cross-hole, refraction and reflection data, local earthquake data, and teleseismic data.

Seismic tomography - book - SEG Wiki

Seismic Tomography With Applications in Global Seismology and Exploration Geophysics. Editors (view affiliations) Guust Nolet

Seismic tomography: A window into deep Earth - ScienceDirect

Seismic traveltme tomography is a popular method for seismic velocity analysis (e.g., Lines, 1991; Stewart, 1991).Its principles are sketched in Figure 6. Traveltme tomography can provide velocity estimates from borehole or surface-reflection data.

G. Nolet (ed.) 1987. Seismic Tomography with Applications ...

The earliest applications of seismic tomography in its modern form employed array data (Aki and Lee, 1976; Aki et al., 1977). In these studies the local lithospheric structure under the array was inferred from observed anomalies of seismic waves.

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A powerful technique, seismic tomography, provides insight into the understanding of plate-driving mechanisms. This technique is similar in principle to that of the CT (computed tomography) scan and creates three-dimensional images of Earth's interior by combining information from many earthquakes.

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There are applications of tomographic imaging in many different fields. In medicine, methods include X-ray tomography, ultrasonic tomography, magnetic resonance imaging, and positron emission tomography (PET). In the earth sciences, tomography is widely used in seismic and EM imaging. In cross-well seismic tomography, for instance,

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Applications. Seismic tomography can resolve anisotropy, anelasticity, density, and bulk sound velocity. Variations in these parameters may be a result of thermal or chemical differences, which are attributed to processes such as mantle plumes, subducting slabs, and mineral phase changes.