

ELASTIC WAVE PROPAGATION IN TRANSVERSELY ISOTROPIC MEDIA

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Elastic Wave Propagation in Transversely Isotropic Media

In this monograph I record those parts of the theory of transverse isotropic elastic wave propagation which lend themselves to an exact treatment, within the framework of linear theory. Emphasis

Wave propagation in transversely isotropic elastic media ...

In relation to transversely isotropic media, this paper presents a detailed study of those aspects of the propagation of homogeneous plane elastic waves which are essential to a basic understanding of the behaviour of surface waves. It is first shown how the ordering of the speeds of plane waves

Elastic wave propagation in transversely isotropic media

Elastic wave propagation in transversely isotropic media. (Mechanics of elastic and inelastic solids : 4) (Monographs and textbooks on mechanics of solids and fluids) Includes index. I. Elastic waves. 2. Wave-motion, Theory of. I. Title. II. Series. III. Series: Monographs and textbooks on mechanics o-- solids and fluids.

ELASTIC WAVE PROPAGATION IN TRANSVERSELY ISOTROPIC MEDIA ...

Synthetic seismograms were computed for P-SV wave propagation in transversely isotropic media. Among the various techniques available for seismic modelling, the finite-difference method possesses both the power and flexibility to model wave propagation accurately in anisotropic inhomogeneous media bounded by irregular interfaces. We have developed a fast high-order vectorized finite-difference

Elastic Wave Propagation In Transversely Isotropic 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).

Elastic wave propagation in transversely isotropic media ...

The velocity-stress formulation for propagation of elastic seismic waves through 2D heterogeneous transversely isotropic media of arbitrary orientation is presented.

Wave propagation in transversely isotropic elastic media ...

The treatment of homogeneous plane waves given in part I provides the basis for the detailed study of the nature of

surface-wave propagation in transversely isotropic elastic media presented in this paper. The investigation is made within the framework of the existence theorem of Barnett and Lothe

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[The Elastic Wave Equation](#)
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Elastic waves in infinite homogeneous isotropic media
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Plane wave propagation in infinite media
Frequency, wavenumber, wavelength
Conditions at material discontinuities
Snell's Law
Reflection coefficients
Free surface Reflection
Seismology: an example from the Gulf of Mexico.
Seismology

[Transverse Isotropy - Wikipedia](#)

Solutions to wave propagation problems in linear elastic transversely isotropic media can be constructed by superposing solutions for the quasi-P wave, the quasi S-wave, and a S-wave polarized orthogonal to the quasi S-wave.

[Elastic Wave Propagation - an overview | ScienceDirect Topics](#)

Using these solutions, it is possible to study guided waves in a cylindrical fiber embedded in an infinite transversely isotropic medium. A more general problem of scattering by plane waves by a fiber was studied by Niklasson and Data (1998).