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6 Elastic Wave Propagation in Materials length of the rod producing an incremental change in the velocity V each time of $2 Y = \dot{\epsilon} \cdot c$ where Y is the Young's modulus of the rod.

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Many wave propagation effects in elastic solids are described by a linearized theory. The chapter further presents a summarization of the basic equations of the linearized theory of elasticity and the linearized equations in rectangular, spherical, and cylindrical coordinates.

Wave Propagation in Elastic Solids | ScienceDirect

Solution of one-dimensional problems, waves in thin rods, etc. Solution of two-dimensional plane waves in unbounded media Half-space problems, reflection and refraction of waves, surface

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Research contributions over the past 50 years on the theory and analysis of elastodynamics are reviewed in this paper. Major topics reviewed are: general theories, steady-state waves in waveguides, transient waves in layered media, diffraction and scattering, and one and two-dimensional theories of elastic bodies.

Elastic Waves in Solids | Journal of Applied Mechanics

waves at the earth surface, this wave is called a horizontally polarized wave or SH-wave; ii) transverse wave where the particle motion is in plane of incidence: $U_1 \neq 0, U_3 \neq 0, U_z = 0$; iii) longitudinal wave where the particle motion is in the plane of incidence: $U_1 \neq 0, U_3 \neq 0, U_z = 0$.

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