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It is seen that these wave equations are simpler than the general equation of motion. Therefore, potentials can be found from Eq.

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(9) and the boundary and initial conditions, and then the solution for displacement will be concluded from Eq. (7). References [1] Wave Motion in Elastic Solids; Karl F. Graff, Ohio State University Press, 1975.

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Rayleigh waves in an elastic solid are different from surface

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waves in water in a very important way. In a water wave all particles travel in clockwise circles. However, in a Rayleigh surface wave, particles at the surface trace out a counter-clockwise ellipse, while particles at a depth of more than $1/5$ th of a wavelength trace out clockwise ellipses.

Longitudinal and Transverse Wave Motion

(ii) elastic waves in solids (including phonons) are found to scatter off each other which they would not do if linear elasticity theory were true (Bateman et al ., 1961 ; Jones and Kobett, 1963 ...

(PDF) Elastic Wave Propagation in Materials

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Elastic wave, motion in a medium in which, when particles are displaced, a force proportional to the displacement acts on the particles to restore them to their original position. If a material has the property of elasticity and the particles in a certain region are set in vibratory motion, an elastic wave will be propagated. For example, a gas is an elastic medium (if it is compressed and the ...

Elastic wave | physics | Britannica

Karl F Graff Wave motion in elastic solids Ohio State University Press (1975)

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An elastic wave is a type of mechanical wave that propagates in elastic or viscoelastic materials. The elasticity of the material provides the restoring force of the wave. When they occur in the Earth as the result of an earthquake or other disturbance, elastic waves are usually called seismic waves.

Linear elasticity - Wikipedia

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