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Acoustic wave - Wikipedia

Seismic waves are waves propagating in the heterogeneous Earth, while acoustic waves and elastic waves in physics propagate in homogeneous media. Because seismic waves propagate in more complex media, such as the ocean bottom, rocks, and the outer core of the Earth, there are six theoretical problems that must be considered for the development of the seismic wave theory from elastic waves.

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Acoustic waves are a type of energy propagation through a medium by means of adiabatic compression and decompression. Important quantities for describing acoustic waves are acoustic pressure, particle velocity, particle displacement and acoustic intensity. Acoustic waves travel with a characteristic acoustic velocity that depends on the medium they're passing through.

Acoustic and Elastic Wave Fields in ... - ScienceDirect

Acoustic and elastic wave fields in geophysics, I A. Kaufman and A. L. Levshin, Elsevier, Amsterdam, 2000, 511 pp, ISBN 0 444 50336 6, Hardback, NLG 370, US \$193.50

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