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Elastic imaging vs. acoustic imaging . Multicomponent elastic data are often recorded in land or marine (ocean-bottom) seismic experiments. However, as mentioned earlier, elastic vector wavefields are not usually processed by specifically designed imaging procedures, but rather by extensions of techniques used for scalar wavefields.

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equation, we obtain  $\nabla \cdot \sigma = (\lambda + 2\mu) \nabla \cdot u$  where  $\lambda = \rho \alpha^2$  or  $\lambda = \rho \alpha^2$   
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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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Acoustic And Elastic Wave Fields In Geophysics. by Kaufman, Alexander A./ Levshin, A. L. This book is dedicated to basic physical principles of the propagation of acoustic and elastic waves. It consists of two volumes. The first volume includes 8 chapters and extended Appendices explaining mathematical aspects of discussed problems.

Elastic imaging vs. acoustic imaging

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.

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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

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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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