Techniques for laboratory measurement of the anisotropic parameter δ M.H. Bhuiyan (NTNU) & R.M. Holt (NTNU & SINTEF)

Objective: Laboratory estimation of δ at different stress level for various mixture of sand-clay.

Delta is a move-out parameter which determine the change of seismic velocity /amplitude at an angular wave path compared to the wave velocity /amplitude at a vertical wave path in anisotropic media

 $\delta = \frac{(C_{13} + C_{44})^2 - (C_{33} - C_{44})^2}{2C_{33}(C_{33} - C_{44})}$



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