Research topics (June 2014)

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1. Interpolation of the prevailing-frequency approximation of the coupling-ray-theory S-wave Green tensor within ray cells in anisotropic media.

2. Common-source Kirchhoff prestack depth migration with coupling-ray-theory S waves.

3. Anisotropic-common-ray approximation of the coupling ray theory: initial conditions, structural interfaces.

4. Wavefield sensitivity to structural Gabor functions (sensitivity beams and packets). Linearized inversion based on Gaussian sensitivity packets.