

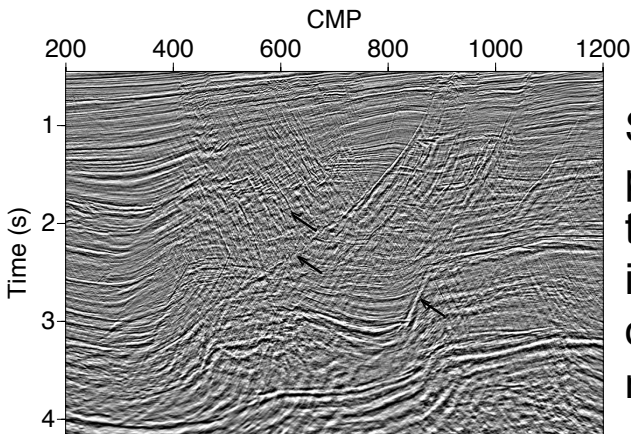


Ilya Tsvankin

- Seismic wave propagation
- Seismic anisotropy
- Fracture characterization

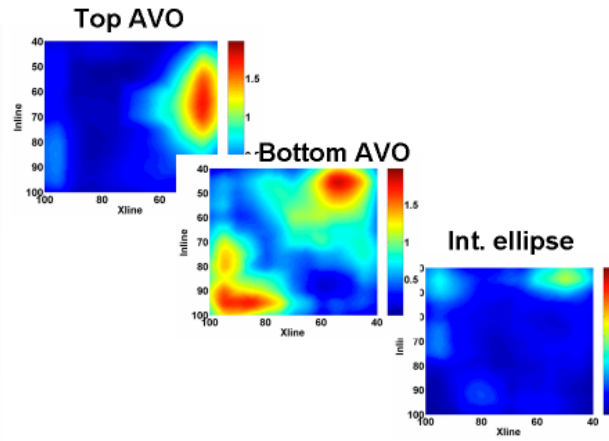
www.cwp.mines.edu/~ilya

- ▶ Co-Leader of Center for Wave Phenomena
- ▶ Elected Fellow of Institute of Physics (2011)
- ▶ SEG Honorary Membership (2015)



Seismic processing for transversely isotropic and orthorhombic media

Accurate structural image produced by anisotropic migration



Fracture characterization using reflection seismic

Fractured “sweet spots” in a tight reservoir revealed by amplitude variation with offset (AVO) and normal-moveout ellipse

Selected recent publications

Shekar, B., and I. Tsvankin, 2014, Point-source radiation in attenuative anisotropic media:

Geophysics, 79, no. 5, WB-25-WB34.

Wang, X., and I. Tsvankin, 2013, Multiparameter TTI tomography of P-wave reflection and VSP data:

Geophysics, 78, no. 1, WC51-WC63.

Tsvankin, I., 2012, *Seismic signatures and analysis of reflection data in anisotropic media*, 3rd edition:

Society of Exploration Geophysicists.

Tsvankin, I., and V. Grechka, 2011, *Seismology of azimuthally anisotropic media and seismic fracture characterization*:

Society of Exploration Geophysicists.