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- Education:** Ph.D. (Continuum Mechanics), 1980; M.S. (Continuum Mechanics), 1974, both from Moscow University (USSR).
- Academia:** 1989-present: Senior Research Scientist, Stanford University, Geophysics.
- Industry:** 1982-89: Senior Research Scientist, Moscow Offshore Oil Institute. 1974-82: Research Scientist, Moscow Oil and Gas Institute.
- Publications:** Over 100 journal articles, two books, and two US patents.
- Honors:** Senior Scientist in Mechanics of Deformable Rigid Body, USSR, 1987. Keynote speaker and invited lecturer worldwide: Canada, Norway, Spain, Portugal, Brazil, Colombia, Japan, Thailand, Malaysia, India.
- Teaching:** Stanford University, GP260, Rock Physics Reservoir Characterization; research seminars; short industrial courses worldwide.
- Students:** Nabil Akbar, Caren Chaika, Ran Bachrach, Doron Gal, Per Avseth, Mario Gutierrez, Andres Mantilla, Christine Ecker, Elizabeth Diaz, Emma Rasolovoagangy, Haibin Xu, Ayako Kameda, Kyle Spikes, Carmen Gomez, Franklin Ruiz.

### Principal Publications:

1. Dvorkin, J., Mavko, G., and Nur, A., 1992, The dynamics of viscous compressible fluid in a fracture, *Geophysics*, 57, 720-726.
2. Dvorkin, J., and Nur, A., 1993, Rock physics for characterization of gas hydrates, USGS Professional Paper 1570, 293-298.
3. Dvorkin, J., Nur, A., Mavko, G., and Ben-Avraham, Z., 1993, Narrow subducting slabs and the origin of backarc basins, *Tectonophysics*, 227, 63-79.
4. Dvorkin, J., Nur, A., and Yin, H., 1994, Effective properties of cemented granular materials, *Mechanics of Materials*, 18, 351-366.
5. Yin, H., and Dvorkin, J., 1994, Strength of cemented grains, *Geophys. Res. Lett.*, 21 (10), 903-906.
6. Dvorkin, J., and Yin, H., 1995, Contact laws for cemented grains, *Int. J. Sol. Struct.*, 32, 2497-2510.
7. Dvorkin, J., Mavko, G., and Nur, A., 1995, Squirt flow in fully saturated rocks, *Geophysics*, 60, 97-107.
8. Dvorkin, J., and Nur, A., 1996, Elasticity of high-porosity sandstones: Theory for two North Sea datasets, *Geophysics*, 61, 1363-1370.
9. Knight, R., Dvorkin, J., and Nur, A., 1998, Seismic Signatures of Partial Saturation, *Geophysics*, 63, 132-138.
10. Ecker, C., Dvorkin, J., and Nur, A., 1998, Sediments with Gas Hydrates: Internal Structure from Seismic AVO, *Geophysics*, 1659-1669.
11. Dvorkin, J., and Brevik, I., 1999, Diagnosing high-porosity sandstones: Strength and permeability from porosity and velocity, *Geophysics*, 64, 795-799.
12. Kameda, A., and Dvorkin, J., 2004, To see a rock in a grain of sand, *The Leading Edge*, 23, 790-794.
13. Spikes, K., Dvorkin, J., and Schneider, M., 2008, From seismic traces to reservoir properties: Physics-driven inversion, *The Leading Edge*, 27, 456-461.