



International Journal of Geophysics

Special Issue on
**Elastic Wave Propagation and Earthquake
Seismology**

CALL FOR PAPERS

Emphasis is placed on two areas in this special issue: elastic wave propagation and earthquake seismology. Elastic waves (seismic waves) are the waves which propagate through an elastic body due to the transmission of a sudden disturbance produced at a point in the medium to the other part of it. The classical elasticity works well for studying earthquakes in the far field; there are alternate elasticity theories that may be more appropriate for studying earthquakes in the near field. Earthquake seismology is the scientific study of earthquakes and the movement of waves through the Earth. The field also includes the studies of variants such as seaquakes, causes such as volcanoes and plate tectonics in general, and offshoot phenomena such as tsunami. Earthquakes (and other Earth movements) produce different types of seismic waves. These waves travel through rocks and structures deep in the Earth. Pressure waves pass through the core. The process of mapping subsurface features is a specialty called seismography. Seismic waves produced by explosions have been used to map salt domes and other oil-bearing rocks, faults (cracks in deep rock), rock types, long-buried giant meteor craters, and seismic tomography. The illustrations or numerical examples related to the Earth are preferable.

The objective of this issue is to invite novel contributions from researchers, academicians, and practitioners actively engaged in industries and research establishments in the area of elastic wave propagation and earthquake seismology.

Potential topics include, but are not limited to:

- ▶ Deformation, motion, and mechanical failure of solid materials
- ▶ Problems on vibration of beams, plates, and shells including random vibrations
- ▶ Engineering, physical, structural, and architectural acoustics in reference to seismic effects
- ▶ Wave propagation problems in diversified geomaterials (elastic, poroelastic, thermoelastic, piezoelectric, viscoelastic, etc.)
- ▶ Recent developments in pertinent computational methods

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijge/ewpes/>.

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