

Syllabus GEOV276 THEORETICAL SEISMOLOGY

From Auld's textbook

Chapter 1. Particle displacement and strain: 1-32

Chapter 2. Stress and the dynamical equations: 33-55

Chapter 3. Elastic properties of solids: 1-99

Chapter 6. Acoustic plane waves in isotropic solids: 163-171

Chapter 7. Acoustic plane waves in anisotropic solids: 210-236

Chapter 8. Reflection and refraction: 1-11, 21-30

From Pujol's textbook

Chapter 8. Ray theory: 234-263

From other sources

Krebes, 2004. Seismic forward modelling, CSEG Recorder.

Lecture notes on surface waves, seismic attenuation and Green's functions.

References

Auld, B.A., 1990. Acoustic fields and waves in solids. Krieger Publishing Company, Malabar, Florida. Volumes 1 and 2.

Pujol, J., 2003. Elastic wave propagation and generation in seismology. Cambridge University Press.

