Intermediate Seismology ESCI 7402 Homework #5 Due: March 16, 2010 SH Wave Downward Continuation

Given the SH wave displacement u_2 at the free surface (for example, the SH wave from a local earthquake), downward continue the wave field to the halfspace using the propagator matrix technique. Decompose the displacement and stress into up and downgoing SH waves and give a relationship for the amplitude of each wave.

