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- The time to travel AD horizontally is  $AB \cdot \sin(A2) / V2h$
- The time to travel BC horizontally is  $AB \cdot \sin(A1) / V1h$

We need these times to be equal to maintain physical continuity on the interface. So  $AB \cdot \sin(A2) / V2h = AB \cdot \sin(A1) / V1h$  or more familiarly as  $\sin(A2) = (V2h/V1h) \cdot \sin(A1)$

Sanity checking: if the incident ray is travelling normal to the interface then  $A1 = 0 \Rightarrow \sin(A1) = 0 = \sin(A2) = 0 \Rightarrow A2 = 0$ . So there is no refraction. The frequencies of waves in the incident wave travelling vertically will have wavelengths of  $V1v/f$  which will change to  $V2v/f$  for the transmitted wave and both incident and transmitted waves will have periods of  $1/f$ . Therefore, vertical continuity for the wave will be maintained at the interface.

The reflection and transmission coefficients will depend on the change of impedance for the wave at the interface so this will be a function of all four velocities, the two densities of the media involved and the incident angle.

The purpose of discussing anisotropy is to show that the refraction angles at an interface are only dependent on the velocities parallel to that interface which is frequently a horizontal or near horizontal velocity interface. When there is anisotropy working in time greatly simplifies most problems because it is the common coordinate for all waves with differing velocities in different directions.

### Conclusions

I think that first success for 3D inversion will come from a properly processed input seismic dataset of shot records and

an earth model in time for P-waves. Properly processed means that processes applied follow the laws of physics and all wave types for a p-wave survey can be present with their approximate anisotropic velocities. The inversion will output a revised earth model with finer resolution in time and space with its revised uncertainties and will include velocities. Another tactic would be to take wireline log data and create full synthetics at the depth resolution of logs and try to create good synthetics that allowed anisotropic velocities and study tuning by angle of incidence and check shot drift behaviour with spherical divergence, attenuation from work, attenuation from interference of reflections and AVO/AVA in this world. This work would be in time not depth but intimately connected to depth. These ideas are for the younger geophysicists. They need to know how much they can discard from current practice and see opportunities for themselves.

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