**Transformed E&M I materials**

**Boundary Value Problems with Dielectrics**

**(Griffiths Chapter 4)**

**TIMELINE**

Prof A covers this in lectures 23-25.

Prof B. covers this in lecture23, 24.

Transformed course covered in lectures 26,27.

**LEARNING GOALS**

None (optional topic)

**CLASS ACTIVITIES**

**Boundary value problems with dielectrics**

**Whiteboards\*\***

**Snell’s Law for Dielectrics**

 (a decent one!) I drew an E arrow approaching a boundary (angle theta1 with normal) and an E arrow leaving the boundary (angle theta2) epsilon is given (and different in both regions, both are linear dielectrics). There are no free charges in the region shown. Find tan(theta1)/tan(theta2). Gave them ~10 minutes for this, about half finished. (Followup question - does the E vector point more "towards the normal" in the lower, or higher dielectric region? Is this like Snell's law?)