

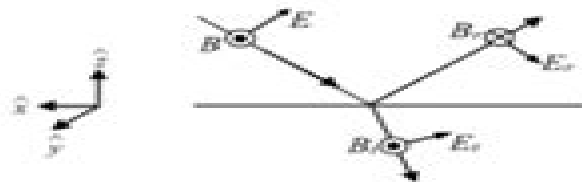
PHYSICS 415/416 SUPPLEMENTAL PROBLEMS

Part 7

7A. (Fresnel Equations)

Derive the Fresnel equations for TM polarized light. I suggest you follow the outline below. This attack closely follows what we did in class for the TE case.

Begin with the following geometry. Note that the positive x -direction is to the left. Also note that the reflected magnetic field points in the negative y -direction. This direction was chosen so that the reflected electric field in the diagram is not inverted with respect to the incident and transmitted electric fields (the x -components all point in the same direction). If the actual reflected wave is inverted upon reflection then this will make the reflection coefficient negative. This is what we want in our coefficient since this will be consistent with the meaning of a negative reflection coefficient in the TE case. (Some books will flip the reflected fields. This makes all of the magnetic fields point in the same direction, which makes for a simpler set-up of the problem. However, then a positive TM reflection coefficient means an inversion upon reflection, which is in direct contrast with the TE case. I think it is better to go with this geometry.)



Apply the boundary conditions that the components of the magnetic and electric fields tangent to the surface must be continuous. Again, be aware that the reflected magnetic field points in the negative y -direction and that the positive x -axis points to the left.

Once you have these equations, follow the steps that we did for the TE case. Specifically, relate the magnetic field amplitudes to the electric field amplitudes, express $\cos\theta_r$ in terms of $\sin\theta_i$, and use the definitions of the index ratio and the reflection and transmission coefficients to finally arrive at the following equations,

$$r_{TM} = \frac{-n^2 \cos\theta_i + \sqrt{n^2 - \sin^2\theta_i}}{n^2 \cos\theta_i + \sqrt{n^2 - \sin^2\theta_i}}$$

$$t_{TM} = \frac{2n \cos\theta_i}{n^2 \cos\theta_i + \sqrt{n^2 - \sin^2\theta_i}}$$

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