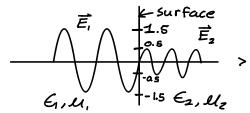
Given E2 = 960, G=60.



$$\vec{E}_1 = \vec{E}_{inc} + \vec{E}_{ref}$$
, $\vec{E}_2 = \vec{E}_{trans}$

Maxwell's Boundary Conditions state

$$E_1'' = E_2''$$
, $E_1^{\perp} = E_2^{\perp} = 0$ * direction of propagation is \perp to surface

 $E_{\perp} + E_{R} = E_{\uparrow}$ # Let $E_{\perp} = E_{\downarrow}^{\dagger}$, $E_{R} = E_{\downarrow}^{\dagger}$, $E_{T} = E_{2}^{\dagger}$ (no E_{2}^{\dagger} exists since wave is coming from left to right)

$$E_1^+ + E_1^+ = E_2^+$$

* From Griffiths the Reflected & Transmitted amplitudes are solved in terms of the Incident amplitude for normal incidence as:

$$\widetilde{E}_{\mathbf{q}} = \left(\frac{1-\beta}{1+\beta}\right)\widetilde{E}_{o_{\mathcal{I}}}, \ \widetilde{E}_{a_{\mathcal{T}}} = \left(\frac{2}{1+\beta}\right)\widetilde{E}_{o_{\mathcal{I}}}$$

where $B = \frac{\mathcal{U}_1 V_1}{\mathcal{U}_2 V_2}$ & V_1 & V_2 can be defined in terms of $\in \& \mathcal{U}$ $V = \sqrt{\frac{1}{E u'}}$

$$V_1 = c$$
 & $V_2 = \frac{c}{3}$ # $M_1 = M_2 = M_0$ & $E_2 = 9E_1$

$$B = \frac{M_0 c}{M_0 c_3} = 3$$

$$\tilde{E}_{or} = \left(\frac{2}{4}\right) E_{o_{I}} = \frac{1}{2} \tilde{E}_{o_{I}}$$

$$\tilde{E}_{or} = -\left(\frac{2}{4}\right) E_{o_{I}} = -\frac{1}{2} \tilde{E}_{o_{I}}$$

Analyzing the peak-to-peak amplitude of Transmitted wave:

$$E_{OI} = 2 \frac{V_{PP}}{m} * V_{PP} = V_{OI} + V_{OP} = V_{OI} + V_{OP} = V_{OI} + V_{OP} + V_$$