$\theta_r + d\theta_r$
$\theta_t + d\theta_t$
dx
R

$$\vec{\nabla} \cdot \vec{E} = 4\pi\rho$$

$$\vec{\nabla} \cdot \vec{B} = 0$$

$$\vec{\nabla} \times \vec{E} = -\frac{1}{c}\frac{\partial \vec{B}}{\partial t}$$

$$\vec{\nabla} \times \vec{B} = \frac{4\pi}{c}\vec{J} + \frac{1}{c}\frac{\partial \vec{E}}{\partial t}$$

$$\vec{E}(x,t) = \vec{E}(x)e^{-\kappa z}\cos(kx - \omega t)$$

$$\kappa = \frac{\omega}{c}\sqrt{(n_i \sin\theta_i)^2 - n_t^2}$$

$$n_i > n_t$$