

**Complemento à postagem sobre a antena de meia onda**

$$d\mathbf{B} = \hat{\boldsymbol{\varphi}} \frac{\mu_0}{4\pi c} \frac{I_0 \omega}{r} \cos\left(\frac{2\pi z'}{\lambda}\right) \text{sen}\theta \cos\left[\omega\left(t - \frac{r}{c}\right)\right] dz'$$

$$d\mathbf{E} = \hat{\boldsymbol{\theta}} \frac{I_0 \omega}{4\pi r c^2 \varepsilon_0} \cos\left(\frac{2\pi z'}{\lambda}\right) \text{sen}\theta \cos\left[\omega\left(t - \frac{r}{c}\right)\right] dz'$$