Traveling Electromagnetic Waves

- $\overrightarrow{E} \perp \overrightarrow{v}$
- $\overrightarrow{B} \perp \overrightarrow{v}$
- $\overrightarrow{E} \perp \overrightarrow{B}$
- $\overrightarrow{E}$ & $\overrightarrow{B}$ in phase
- $\hat{E} \times \hat{B} = \hat{v}$
- $B_o = \frac{E_o}{c}$ in vacuum
- $c = \frac{1}{\sqrt{\epsilon_o \mu_o}}$ in vacuum