Traveling Electromagnetic Waves

- $\vec{E} \perp \vec{v}$

- $\vec{B} \perp \vec{v}$

- $\vec{E} \perp \vec{B}$

- $\vec{E}$ & $\vec{B}$ in phase

- $\hat{E} \times \hat{B} = \hat{v}$

- $B_o = \dfrac{E_o}{c}$ in vacuum

- $c = \dfrac{1}{\sqrt{\epsilon_o \mu_o}}$ in vacuum