

## The meaning of LIGHT (and E&M!): MAXWELL'S EQUATIONS

$$\nabla \cdot \mathbf{D} = \rho \quad , \quad \nabla \cdot \mathbf{B} = 0 \quad , \quad \nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t} \quad , \quad \nabla \times \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t} \quad .$$

**E**: electric field; **H**: magnetic field ; **D**: electric displacement field ; **B**: magnetic flux density ;  
 $\rho$ : electric charge density; **J**: free current density.