

Las ecuaciones de Maxwell en forma diferencial son:

$$\nabla \cdot \mathbf{E} = \frac{\rho}{\varepsilon_0} \quad (\text{Ley de Gauss}) \quad (1a)$$

$$\nabla \cdot \mathbf{B} = 0 \quad (\text{No monopolos}) \quad (1b)$$

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t} \quad (\text{Ley de Faraday}) \quad (1c)$$

$$\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \varepsilon_0 \frac{\partial \mathbf{E}}{\partial t} \quad (\text{Ley de Ampère}) \quad (1d)$$