
Table of contents

Magnetic Field:

$$\mathcal{B} = \frac{1}{2} \frac{1}{2\pi} \mu_0 \frac{q}{r^2} \left(\vec{v} \times \frac{\vec{r}}{r} \right) = \nabla \times \mathcal{A} \neq \frac{\mathcal{E}}{v} \quad (1)$$

Lorentz Force:

$$F_B = q(v \times \mathcal{B}) \quad (2)$$

Vector Potential: \mathcal{A}