Electro magnetism

Poster Day, ELL 212

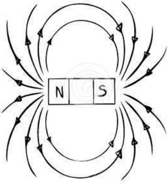
15th April, 2016 (Friday)

Exh - Hall, 02 pm onwards

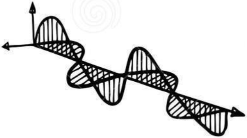
$F = \frac{1}{4\pi\epsilon_0}\frac{q_1 q_2}{r^2}$ $\nabla \cdot B = 0$ $E = \frac{1}{4\pi\epsilon_0}\frac{q_1}{r^2}$ $\oint E.dA = \frac{Q_{inside}}{\epsilon_0}$

$F = q(E + v + B)$ $\oint B.dA = 0$

$Q = CV$



$\partial_\alpha F^{\alpha\beta} = \mu_0 J^\beta$



$\nabla \cdot E = \frac{\rho}{\epsilon_0}$

$V = IR$

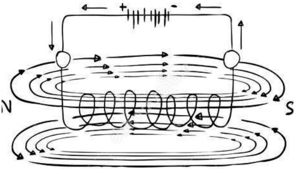
$E = \frac{Q}{4\pi\epsilon r^3} r$

$\nabla \times E = -\frac{\partial B}{\partial t}$

$\nabla \times B = \mu_0\left(J + \epsilon_0 \frac{\partial E}{\partial t}\right)$

$B = \int \frac{\mu_0 I}{4\pi r^2} dl \times r$

$V(p_2) - V(p_1) = -\int_{p_1}^{p_2} E \cdot dl$



$F = q[E + (v \times B)]$ $\oint B \cdot dl = \mu_0 I_{enc}$ $F = Eq$