

# ELECTROMAGNETIC INDUCTION

# BRAIN MAP

## CLASS XII

### Magnetic Energy

- Energy stored in an inductor,  

$$U_B = \frac{1}{2} LI^2$$
- Energy stored in the solenoid,  

$$U_B = \frac{1}{2\mu_0} B^2 Al$$
- Magnetic energy density,  

$$u_B = \frac{U_B}{V} = \frac{B^2}{2\mu_0}$$

### Combination of Inductors

- Inductors in series,  $L_s = L_1 + L_2 \pm 2M$
- Inductors in parallel,  $L_p = \frac{L_1 L_2 \pm 2M}{L_1 + L_2 \pm 2M}$
- If coils are far away, then  $M = 0$ .  
 So,  $L_s = L_1 + L_2$  and  $L_p = \frac{L_1 L_2}{L_1 + L_2}$

### L-R Circuit

- Current growth in L-R circuit  $I = I_0(1 - e^{-t/\tau_L})$
- Current decay in L-R circuit,  

$$I = I_0(e^{-t/\tau_L})$$
 Here,  $\tau_L = \text{Time constant} = \frac{L}{R}$   

$$I_0 = \frac{\mathcal{E}}{R}$$

### Inductance

- Emf induced in the coil/conductor,  $\mathcal{E} = -L \frac{dI}{dt}$
- Coefficient of self induction,  $L = \frac{N}{I} \Phi_B = \frac{\mathcal{E}}{dI/dt}$
- Self inductance of a long solenoid,  $L = \mu_0 \mu_r n^2 Al = \frac{\mu_0 \mu_r N^2 A}{l}$
- Mutual inductance,  $M = \frac{N_2 \Phi_{21}}{I_1} = \frac{-\mathcal{E}_2}{(dI_1/dt)} = \frac{-\mathcal{E}_1}{(dI_2/dt)}$
- Mutual inductance of two long coaxial solenoids,  

$$M = \mu_0 \mu_r \pi r_1^2 n_1 n_2 l = \frac{\mu_0 \mu_r N_1 N_2 A_2}{l}$$
- Coefficient of coupling,  $k = \frac{M}{\sqrt{L_1 L_2}}$   
 For perfect coupling,  $k = 1$  so,  $M = \sqrt{L_1 L_2}$

### Induced Electric Field

- It is produced by change in magnetic field in a region. This is non-conservative in nature.  

$$\oint \vec{E} \cdot d\vec{l} = -\frac{d\Phi_B}{dt} = -A \frac{dB}{dt} \neq 0$$
- This is also known as integral form of Faraday's law.

### Lenz's Law


- The direction of the induced current is such that it opposes the change that has produced it.
- If a current is induced by an increasing(decreasing) flux, it will weaken (strengthen) the original flux.
- It is a consequence of the law of conservation of energy.

### Magnetic Flux and Faraday's Law

- Magnetic flux  $\Phi_B = \vec{B} \cdot \vec{A} = BA \cos \theta$
- Faraday's Law : Whenever magnetic flux linked with a coil changes, an emf is induced in the coil.
  - Induced emf,  $\mathcal{E} = -N \frac{d\Phi_B}{dt}$
  - Induced current,  $I = \frac{\mathcal{E}}{R} = N \frac{(-d\Phi_B/dt)}{R}$
  - Induced charge flow,  $\Delta Q = I \Delta t = -N \frac{\Delta \Phi_B}{R}$

### Energy Consideration in Motional emf

- Emf in the wire,  $\mathcal{E} = Bvl$
- Induced current,  $I = \frac{\mathcal{E}}{R} = \frac{Bvl}{R}$
- Force exerted on the wire,  

$$F = \frac{B^2 l^2 v}{R}$$

- Power required to move the wire,  $P = \frac{B^2 l^2 v^2}{R}$   
 It is dissipated as Joule's heat.

### Motional emf

- On a straight conducting wire,  $\mathcal{E} = Bvl$
- On a rotating conducting wire about one end,  $\mathcal{E} = \frac{B\omega l^2}{2}$   
 Here,  $\vec{B}, \vec{v} (= \omega r \hat{r})$  and  $\vec{l}$  are perpendicular to each other.

### Electric Generator

- Mechanical energy is converted into electrical energy by virtue of electromagnetic induction.
- Induced emf,  

$$\mathcal{E} = NBA\omega \sin \omega t = \mathcal{E}_0 \sin \omega t$$
- Induced current,  

$$I = \frac{NBA\omega}{R} \sin \omega t = I_0 \sin \omega t$$

# Conceptual Physics Electromagnetic Induction

**Paul G. Hewitt**



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