ELECTROMAGNETIC INDUCTION

IMPORTANT FORMULAE

- 1. Magnetic flux $\phi_B = \overrightarrow{B} \cdot \overrightarrow{A} = BA \cos \theta$ where θ is the angle between A and B.
- 2. Induced emf in a coil $\varepsilon = -N \frac{\Delta \Phi}{\Delta t}$
- 3. EMF induced in a moving conductor, $\varepsilon = Red$ where B, v, I are mutually perpendicular
- 4. Magnetic flux $\phi = LI$ where L is the coefficient of self-induction.
- 5. If L is self inductance, emf induced $\varepsilon = -L \frac{\Delta I}{L}$
- 6. Self inductance of a solenoid

$$L = \mu_* \mu_o w^* A I = \frac{\mu_* \mu_o N^* A}{I}$$

- 7. Mutual Inductance $E_2 = -M \frac{\Delta I}{\Delta I}$
- 8. Mutual inductance of solenoid coil system $M = \frac{\mu_0 N_1 N_2 A}{r}$ where N_1 = number of turns/metre in solenoid, N_2 = number of turns in coil.
- 9. Energy stored in inductance $U_{\alpha} = \frac{1}{9}LI^2 = \frac{1}{9}\phi I$

Direction of Current Induced in Some Cases

	System	Primary Current	Induced Current
B.	Straight wire-coil system	(i) Current increasing (ii) Current decreasing	Clockwise current Auticlockwise current
2.	Self inductive circuit	(i) Key is released	Opposite to direction of main currents In the direction of main current

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Yicheng Fang

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