

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

Cutnell

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Conceptual Physics Electromagnetic Induction:

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Magnetic Effect of Current for JEE Advanced & Main Disha Experts, 2019-10-21 *Fundamental Concepts of Modern Physics* Sheldon R.

Diamond,1970 *Concepts of Modern Physics* Arthur Beiser,1987 Modern Physics is the most up to date accessible presentation of modern physics available The book is intended to be used in a one semester course covering modern physics for students who have already had basic physics and calculus courses The balance of the book leans more toward ideas than toward experimental methods and practical applications because the beginning student is better served by a conceptual framework than by a mass of details The sequence of topics follows a logical rather than strictly historical order Relativity and quantum ideas are considered first to provide a framework for understanding the physics of atoms and nuclei The theory of the atom is then developed and followed by a discussion of the properties of aggregates of atoms which includes a look at statistical mechanics Finally atomic nuclei and elementary particles are examined *Development of Concepts of Physics* Arnold B. Arons,1965 **Basic Concepts of Physics** Arthur Beiser,1961 **Threshold Concepts in the Moment** ,2024-04-22 In the twenty years since Ray Land and Erik Meyer published their first paper on Threshold Concepts there has been a steady stream of papers mulling over their original suggestions that learning far from proceeding in an orderly fashion is instead a process of struggle perhaps alienation and confusion that puts students in a troublesome liminal in between state As their understanding develops liminality gives way to transformational insight whereby a whole field of study comes often quite abruptly into focus There is a gain but often also a loss in this new world old certainties assumptions and even aspects of our identity can be left by the wayside Threshold Concepts in the Moment is the sixth collection in the series on the subject of Threshold Concepts following the 8th Biennial Conference held in 2021 anchored at London s UCL but running online across the world Its contributors who range from old hands to new members of the community finding their feet mull over the insights of the threshold concepts framework in higher education scrutinise their own fields of study explore the implications of liminality for pedagogy and becoming professional practitioners and consider the broad implications for pedagogy of factoring in the troublesomeness of knowledge and learning Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction The Sea, Volume 4A: New Concepts of Sea Floor Evolution Arthur E. Maxwell,Edward Bullard,J. Lamar Worzel,1971-01-05 **The Practice Book for Conceptual Physics: Pearson New International Edition PDF eBook** Paul G. Hewitt,2013-10-03 This book is filled with computational exercise misconception busting questions analogies and straightforward practice questions and problems that help students tie it all together Concepts in Physics Franklin Miller,Thomas J. Dillon,Malcolm K. Smith,1969 *Concepts, Problems, and Solutions in General Physics* Raymond A. Serway,1975 **Evaluation Package for Cutnell and Johnson Physics 8E** Cutnell,2008-10-28 **Concepts in Physics**

Isaac Asimov, 1973

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