

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, $L_P = \frac{L_1 L_2 - M^2}{L_1 + L_2 + 2M}$
- 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 $I = I_0(1 - e^{-t/\tau})$
- Current decay in L-R circuit, $I = I_0 e^{-t/\tau}$
Here, $\tau_1 =$ 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,
 $M = \mu_0 \mu_r n_1 n_2 I = \frac{\mu_0 \mu_r N_1 N_2 A_2}{l}$
- 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, $\Delta Q = I \Delta t = -N \frac{\Delta \Phi_B}{R}$

Electric Generator

- Mechanical energy is converted into electrical energy by virtue of electromagnetic induction.
- Induced emf,
 $\mathcal{E} = NAB\omega \sin \omega t = \mathcal{E}_0 \sin \omega t$
- Induced current,
 $I = \frac{NBA\omega \sin \omega t}{R} = I_0 \sin \omega t$

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, $\vec{B}, \vec{v} (= \omega r \hat{\phi})$ and \vec{l} are perpendicular to each other.

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.



Conceptual Physics Electromagnetic Induction

Puja Mehta



Conceptual Physics Electromagnetic Induction:

Developments in Mathematical and Conceptual Physics Harish Parthasarathy, 2020-06-22 This book presents concepts of theoretical physics with engineering applications The topics are of an intense mathematical nature involving tools like probability and random processes ordinary and partial differential equations linear algebra and infinite dimensional operator theory perturbation theory stochastic differential equations and Riemannian geometry These mathematical tools have been applied to study problems in mechanics fluid dynamics quantum mechanics and quantum field theory nonlinear dynamical systems general relativity cosmology and electrodynamics A particularly interesting topic of research interest developed in this book is the design of quantum unitary gates of large size using the Feynman diagrammatic approach to quantum field theory Through this book the reader will be able to observe how basic physics can revolutionize technology and also how diverse branches of mathematical physics like large deviation theory quantum field theory general relativity and electrodynamics have many common issues that provide the starting point for unifying the whole of physics namely in the formulation of Grand Unified Theories GUTS

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Concepts of Mechanics Vol. 2 for JEE Advanced & Main 7th Edition Er. D. C. Gupta, Er. Harsh Gupta, 2019-06-20 The 2nd book in the new Physics Concepts Series by D C Gupta of books for IIT JEE Advanced Mains Concepts of Mechanics 1 Vol 2 for JEE Advanced Main 7th Edition The series aims at helping the students with Tricks Techniques to Master Concepts and Problem Solving Skills in Physics for IIT JEE The books are empowered with Problem Solving Videos by the author himself where he has tried to demonstrate the best practices while attempting IIT JEE Physics Problems The Most User Friendly Series of Books The book comprises of Comprehensive Theory and Miscellaneous Solved Examples for a better understanding of the concepts The theory not only discusses the concept at length but also discusses the various permutations and combinations in which problems can be asked in JEE Advanced Gyan Booster Concept points are given in various places in each chapter To make the book more pertinent and relevant selected NCERT EXEMPLAR Previous years JEE Advanced Mains KVPY and Physics Olympiad Problems are also included The questions in each exercise are arranged TOPIC WISE Concept Boosting Questions are

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a l égard de tous les êtres vivants il montrait des qualités de générosité et de compassion exceptionnelles mais il grandissait comme les autres enfants de son village au pied de l himalaya puis un jour son oncle vint le chercher et proposa de l emmener à la citadelle des neiges ainsi commença le voyage initiatique et spirituel

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