

05. State that, a current carrying coil in a magnetic field will experience a torque.

Ans: **Turning Effect on a Current-carrying Coil in a Magnetic Field:**

When a current passes through the coil, equal and opposite parallel forces act respectively on the sides of the coil beside the poles of the permanent magnet. This pair of forces produces a turning effect to rotate the coil until it is stopped by the control springs.

A current-carrying coil kept in a magnetic field experiences a torque, which is the cross-product of the magnetic moment and the field vector.

Hence, the torque is maximum when the dipole moment is perpendicular to the field, and zero when it's parallel or antiparallel to the field.

When an electric current is passed through a coil, placed in magnetic field with its plane parallel to the field, it experiences a torque. Thus, this rectangular coil tends to rotate in the magnetic field and it suffers torque.

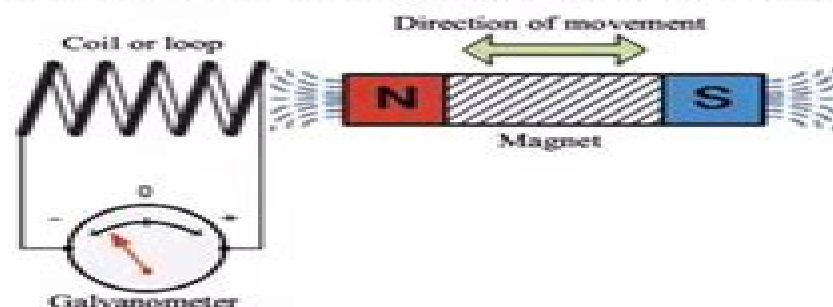
06. Describe an experiment that demonstrates the induction of e.m.f. in a circuit by a varying magnetic field.

Ans: **Changing Magnetic Field can Induce e.m.f in a Circuit:**

Faraday demonstrates that magnetic fields can create currents. When the magnet is moved "towards" the coil, the galvanometer's pointer or needle will deflect away from its central position in one direction only.

When the magnet stops moving and is held stationary with respect to the coil, the needle of the galvanometer returns to zero as there is no physical movement of the magnetic field.

Similarly, when the magnet is moved "away" from the coil, the galvanometer needle deflects in the opposite direction, indicating a change in polarity. By moving the magnet back and, forth towards the the coil, the needle of the galvanometer will deflect left or right, positive or negative, relative to the magnet's motion.



If you keep the magnet stationary and move only the coil toward or away from the magnet, the needle on the galvanometer will also move in either direction. A voltage is induced in a coil when the coil is moved through a magnetic field, and the magnitude of this voltage is proportional to the speed at which the coil is moved. For Faraday's law to be valid, either the coil or the magnetic field (or both) must be in "relative motion" with one another for the induced emf or voltage to be increased with increasing field speed.

Solved Exercise Electromagnetism

Jerrold Franklin



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2008+ Solved Problems in Electromagnetism S. A. Nasar, Syed A. Nasar, 2008 This book covers the following areas vector analysis electrostatics magnetostatics Maxwell's equation plane waves transmission lines waveguides cavity resonator and antenna

Solved Problems in Classical Electromagnetism Jerrold Franklin, 2018-09-12 Companion to Classical Electromagnetism Second Edition which features only basic answers This book contains some problems from the companion volume plus many new ones all with complete worked out solutions 2018 edition [Solved Problems in Electromagnetism](#)

Félix Salazar Bloise, Rafael Medina Ferro, Ana Bayón Rojo, Francisco Gascón Latasa, 2016-10-19 This book presents the fundamental concepts of electromagnetism through problems with a brief theoretical introduction at the beginning of each chapter The present book has a strong didactic character It explains all the mathematical steps and the theoretical concepts connected with the development of the problem It guides the reader to understand the employed procedures to learn to solve the exercises independently The exercises are structured in a similar way The chapters begin with easy problems increasing progressively in the level of difficulty This book is written for students of physics and engineering in the framework of the new European Plans of Study for Bachelor and Master and also for tutors and lecturers **Electricity, Magnetism and**

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Electromagnetic Fields *Electromagnetic Nondestructive Evaluation (V)* J. Pavon, 2001 A collection of papers on electromagnetic nondestructive evaluation NDE techniques Developments are discussed along with the implications of innovations for future inspection practice Topics covered include analytical and numerical modelling of electromagnetic NDE phenomena solutions to NDE inverse problems evaluation of material degradation in ferromagnetic structures advanced sensors industrial applications of NDE and benchmark problems and solutions (FREE SAMPLE) **Concepts of Magnetism & Electromagnetic Induction for JEE Advanced & Main 5th Edition** Disha Experts, 2021-07-01 **Introduction to**

Electromagnetic Engineering Roger F. Harrington, 2003-01-01 This study of electromagnetic theory introduces students to a broad range of quantities and concepts imparting the necessary vector analysis and associated mathematics and reinforcing its teachings with several elementary field problems Based on circuit theory rather than on the classical force relationship approach the text uses the theory of electric circuits to provide a system of experiments already familiar to the

electrical engineer a series of field concepts are then introduced as a logical extension of circuit theory Virtually unobtainable elsewhere this text was written by a prominent professor whose recognition includes the prestigious IEEE Electromagnetics Award It is appropriate for advanced undergraduate and graduate students with a background in calculus and circuit theory 176 Figures 9 Tables *Educational Research and Innovation The Nature of Problem Solving Using Research to Inspire 21st Century Learning* OECD,2017-04-11 Solving non routine problems is a key competence in a world full of changes uncertainty and surprise where we strive to achieve so many ambitious goals But the world is also full of solutions because of the extraordinary competences of humans who search for and find them Low-Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB Sergey N. Makarov,Gregory M. Noetscher,Ara Nazarian,2015-06-22 Provides a detailed and systematic description of the Method of Moments Boundary Element Method for electromagnetic modeling at low frequencies and includes hands on application based MATLAB modules with user friendly and intuitive GUI and a highly visualized interactive output Includes a full body computational human phantom with over 120 triangular surface meshes extracted from the Visible Human Project Female dataset of the National library of Medicine and fully compatible with MATLAB and major commercial FEM BEM electromagnetic software simulators This book covers the basic concepts of computational low frequency electromagnetics in an application based format and hones the knowledge of these concepts with hands on MATLAB modules The book is divided into five parts Part 1 discusses low frequency electromagnetics basic theory of triangular surface mesh generation and computational human phantoms Part 2 covers electrostatics of conductors and dielectrics and direct current flow Linear magnetostatics is analyzed in Part 3 Part 4 examines theory and applications of eddy currents Finally Part 5 evaluates nonlinear electrostatics Application examples included in this book cover all major subjects of low frequency electromagnetic theory In addition this book includes complete or summarized analytical solutions to a large number of quasi static electromagnetic problems Each Chapter concludes with a summary of the corresponding MATLAB modules Combines fundamental electromagnetic theory and application oriented computation algorithms in the form of stand alone MATLAB modules Makes use of the three dimensional Method of Moments MoM for static and quasistatic electromagnetic problems Contains a detailed full body computational human phantom from the Visible Human Project Female embedded implant models and a collection of homogeneous human shells Low Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB is a resource for electrical and biomedical engineering students and practicing researchers engineers and medical doctors working on low frequency modeling and bioelectromagnetic applications

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