

Class 12 Physics Notes Induction

Electromagnetic Induction

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Electromagnetic Induction For
Class XII, NEET, JEE Main &
JEE Advanced - Lecture Notes

By Ramesh Chandra (B.Tech, IIT Kanpur) Electromagnetic Induction: Lecture Notes for Class XII, NEET, JEE Main & JEE Advanced is a complete, concept-oriented guide for mastering one of the most important and scoring units of Class 12 Physics. Carefully designed for board examinations as well as national competitive exams, this book builds strong fundamentals first and then develops the analytical and numerical skills required for high-level problem solving. The text begins with the basics of magnetic field lines and magnetic flux, followed by the classic experiments of Faraday and Henry, leading to a clear understanding of Faraday's

laws of induction and Lenz's law with energy conservation. Students then move systematically into motional EMF, learning the Lorentz force approach, moving rod problems, equivalent circuits, and power calculations, along with applications involving closed loops in uniform magnetic fields. The coverage extends to rotational induction, including rotating bars, rotating coils in different magnetic field orientations, and the rotating disc generator, helping students connect theory with practical devices. The concept of induced electric fields and eddy currents is explained with physical interpretation and real-life applications. A dedicated section on self inductance and inductors develops the derivation for solenoids, energy stored in magnetic fields, magnetic energy density, and RL circuits with current growth, decay,

and time constants. This is followed by mutual inductance, including two-coil systems, coefficient of coupling, series and parallel combinations of inductors, and energy transfer between coils. The unit concludes with the AC generator and fundamentals of alternating current, covering construction, working principle, induced EMF equations, RMS values, frequency, and phase relations. Every topic is presented with clear theory, step-wise derivations, formula logic, graphs, and exam-style numericals. The book includes worked examples, conceptual checkpoints, and extensive previous year questions from NEET, JEE Main, and JEE Advanced, enabling students to practice exactly what appears in real examinations. Written by an IIT Kanpur alumnus with over 14 years of teaching experience, these lecture notes reflect proven classroom methods that simplify difficult electromagnetic concepts into intuitive and solvable ideas. The structured progression

from fundamentals to advanced problems makes the book equally effective for learning, revision, and exam practice. Key highlights include:
Complete NCERT-aligned theory for Class 12 Physics
Strong conceptual explanation with physical reasoning
Standard derivations frequently asked in exams
Numerical problem-solving techniques for NEET & JEE
Graph-based and analytical questions Fully solved NEET and JEE Main/Advanced PYQs
Clear diagrams and organized presentation for quick revision
Ideal for CBSE Board preparation, NEET aspirants, and JEE Main/Advanced students, this book serves as a reliable lecture companion, practice workbook, and last-minute revision guide. A focused and powerful resource to master Electromagnetic Induction with clarity, speed, and exam-level confidence.

Physical Review 1908 Vols. for 1903- include Proceedings of the American Physical Society.

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Hulbert G. Emery 1927
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