

CHAPTER - 5

ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

- Q1.** Electromagnetic induction takes place not only in circuits, but also in pieces of metals.
- State the Faraday's law of electromagnetic Induction.
 - Give an application of eddy current . (Explain)
 - A coil having an area of cross section 0.05m^2 and number of turns 100 is placed at right angles to a magnetic field of strength 0.08T . How much emf will be induced in it, if the field is reduced to zero in 0.01 sec.

An: a) Whenever magnetic flux linked with a coil or a circuit changes an induced emf is produced. The induced emf is proportional to rate of change of magnetic flux. The induced emf lasts only if the magnetic flux change lasts.

b) Electric brakes-When strong magnetic field is suddenly applied to a rotating drum, eddy currents set up in the drum exerts a torque which stops the motion of the drum.

$$\begin{aligned}\text{c) } e &= \frac{-d\phi}{dt} = \frac{-d(nAB)}{dt} \\ &= -nA \frac{dB}{dt} = -\left[100 \times 0.05 \times \frac{(0 - 0.08)}{0.01}\right] = 40\text{V}\end{aligned}$$

- Q2.** A copper ring is suspended by a thread in a vertical plane. One end of a magnet is brought horizontally towards the ring.

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 and diffraction of waves interference and Young double slit experiment The Thermal Physics MCQ PDF e Book Chapter 31
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 Its Compounds 5 Periodic Classification of elements 6 Life Processes 7 Control and Coordination 8 How do Organisms
 Reproduce 9 Heredity and Evolution 10 Light Reflection and Refraction 11 The Human Eye and the Colourful World 12
 Electricity 13 Magnetic Effects of Electric Current 14 Sources of Energy 15 Our Environment 16 Sustainable Management of
 Natural Resources Practical Project Appendix Answer Sheet Examination Paper Self Study Guide B. Pharma Entrance
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Table of Contents Study Guide Electromagnetic Induction Answers

1. Understanding the eBook Study Guide Electromagnetic Induction Answers
 - The Rise of Digital Reading Study Guide Electromagnetic Induction Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Electromagnetic Induction Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Electromagnetic Induction Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Electromagnetic Induction Answers
 - Personalized Recommendations
 - Study Guide Electromagnetic Induction Answers User Reviews and Ratings
 - Study Guide Electromagnetic Induction Answers and Bestseller Lists

5. Accessing Study Guide Electromagnetic Induction Answers Free and Paid eBooks
 - Study Guide Electromagnetic Induction Answers Public Domain eBooks
 - Study Guide Electromagnetic Induction Answers eBook Subscription Services
 - Study Guide Electromagnetic Induction Answers Budget-Friendly Options
6. Navigating Study Guide Electromagnetic Induction Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide Electromagnetic Induction Answers Compatibility with Devices
 - Study Guide Electromagnetic Induction Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Electromagnetic Induction Answers
 - Highlighting and Note-Taking Study Guide Electromagnetic Induction Answers
 - Interactive Elements Study Guide Electromagnetic Induction Answers
8. Staying Engaged with Study Guide Electromagnetic Induction Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Electromagnetic Induction Answers
9. Balancing eBooks and Physical Books Study Guide Electromagnetic Induction Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Electromagnetic Induction Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Guide Electromagnetic Induction Answers
 - Setting Reading Goals Study Guide Electromagnetic Induction Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Guide Electromagnetic Induction Answers
 - Fact-Checking eBook Content of Study Guide Electromagnetic Induction Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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