

II. A conducting loop of terminals A and D has the shape of a square of side 0.3m. The loop of resistance $R = 3\Omega$ is placed in a uniform magnetic field \vec{B} whose direction is perpendicular to the plane of the loop (Fig. 1). The magnitude B of \vec{B} varies periodically with time according to the graph of figure (2).

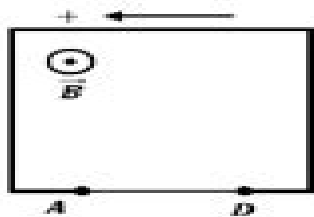


Fig. 1

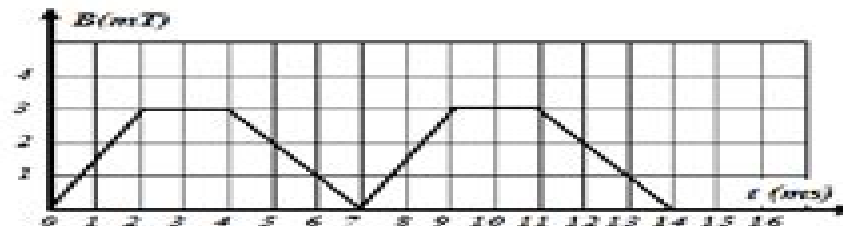


Fig. 2

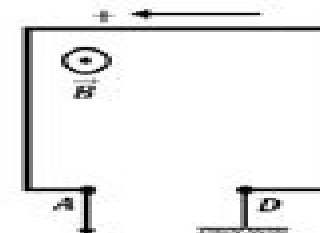


Fig. 3

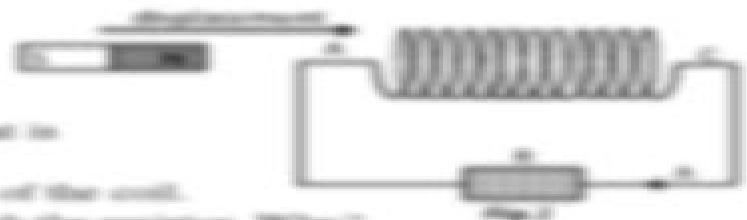
- A. The terminals A and D of the loop are connected by a wire of negligible resistance (Figure 1).
 - a) Explain the existence of the induced current during the time interval $[0; 2\text{ms}]$, and apply Lenz's law to determine the direction of this current.
 - b) Determine the expression of the magnetic flux φ crossing the loop as a function of B .
 - c) Determine the electromotive forces induced in the loop during: $[0; 2\text{ms}]$; $[2\text{ms}; 4\text{ms}]$ and $[4\text{ms}; 7\text{ms}]$. Deduce the directions of the induced current during these intervals of time.
 - d) Deduce the algebraic value of the induced current during one period.
 - e) Calculate the total electric power induced in the equivalent generator and the power dissipated in the loop during $[0; 2\text{ms}]$.
- B. The wire joining A and D is removed. A and D are connected to an multimeter (Fig. 3). Consider the time interval $[0; 2\text{ms}]$.
 - a) Draw the equivalent generator of the loop.
 - b) Choose a convenient scale to draw a graph of the voltage displayed on the screen of the multimeter.

III.

A-First experiment

A bar magnet may be displaced along the axis of a coil whose terminals A and C are connected to a resistor of resistance R .

We approach the north pole of the magnet towards the face A of the coil (Fig.1). An induced current i is carried by the circuit.



- 1) Give the name of the physical phenomenon that is responsible for the passage of this current.
- 2) Give, with justification, the name of each face of the coil.
- 3) The induced current passes from C to A through the resistor. Why?
- 4) Determine the sign of the voltage u_{AC} .

B-Second experiment

A coil of inductance $L = 5\text{mH}$ and of negligible resistance is connected in series with a resistor of resistance R across a generator G (Fig.2). The coil then carries a current i that varies with time as shown in figure 3.

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M Woodhall

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Table of Contents Chapter 37 Electromagnetic Induction Exercises

1. Understanding the eBook Chapter 37 Electromagnetic Induction Exercises
 - The Rise of Digital Reading Chapter 37 Electromagnetic Induction Exercises
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 37 Electromagnetic Induction Exercises
 - 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 Chapter 37 Electromagnetic Induction Exercises
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 37 Electromagnetic Induction Exercises
 - Personalized Recommendations
 - Chapter 37 Electromagnetic Induction Exercises User Reviews and Ratings
 - Chapter 37 Electromagnetic Induction Exercises and Bestseller Lists

5. Accessing Chapter 37 Electromagnetic Induction Exercises Free and Paid eBooks
 - Chapter 37 Electromagnetic Induction Exercises Public Domain eBooks
 - Chapter 37 Electromagnetic Induction Exercises eBook Subscription Services
 - Chapter 37 Electromagnetic Induction Exercises Budget-Friendly Options
6. Navigating Chapter 37 Electromagnetic Induction Exercises eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 37 Electromagnetic Induction Exercises Compatibility with Devices
 - Chapter 37 Electromagnetic Induction Exercises Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 37 Electromagnetic Induction Exercises
 - Highlighting and Note-Taking Chapter 37 Electromagnetic Induction Exercises
 - Interactive Elements Chapter 37 Electromagnetic Induction Exercises
8. Staying Engaged with Chapter 37 Electromagnetic Induction Exercises
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 37 Electromagnetic Induction Exercises
9. Balancing eBooks and Physical Books Chapter 37 Electromagnetic Induction Exercises
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 37 Electromagnetic Induction Exercises
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 37 Electromagnetic Induction Exercises
 - Setting Reading Goals Chapter 37 Electromagnetic Induction Exercises
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 37 Electromagnetic Induction Exercises
 - Fact-Checking eBook Content of Chapter 37 Electromagnetic Induction Exercises
 - 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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