

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).

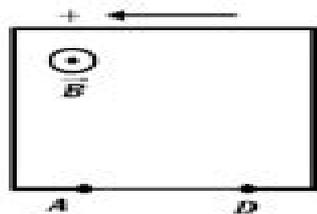


Fig. 1

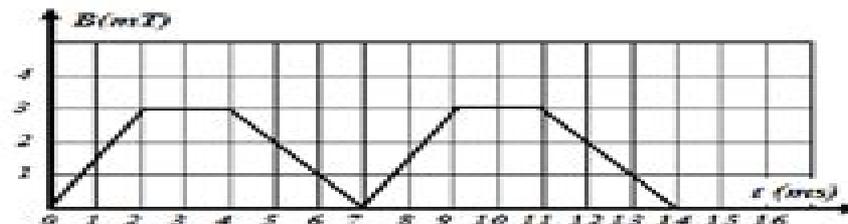


Fig. 2

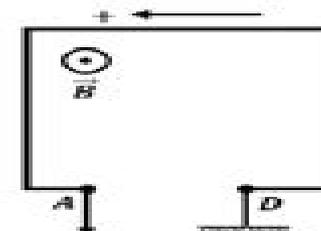


Fig. 3

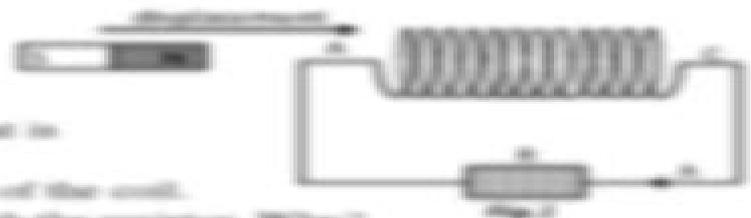
- A. The terminals A and D of the loop are connected by a wire of negligible resistance (Figure 1).
 - a) Explain the existence of the induced current during the time interval $[0; 2\text{ms}]$, and apply Lenz's law to determine the direction of this current.
 - b) Determine the expression of the magnetic 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 oscilloscope (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 oscilloscope.

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.

Chapter 37 Electromagnetic Induction Exercises

David Halliday, Robert Resnick, Jearl Walker



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