

**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).

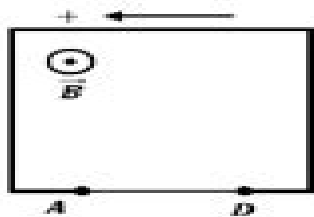


Fig. 1

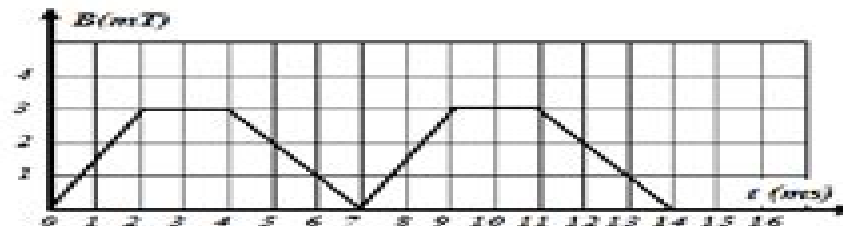


Fig. 2

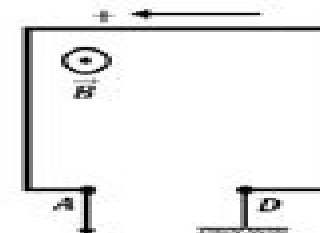


Fig. 3

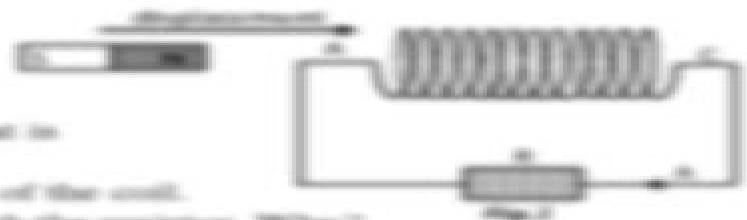
- The terminals A and D of the loop are connected by a wire of negligible resistance (Figure 1).
  - Explain the existence of the induced current during the time interval  $[0; 2\text{ms}]$ , and apply Lenz's law to determine the direction of this current.
  - Determine the expression of the magnetic flux  $\varphi$  crossing the loop as a function of  $B$ .
  - 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.
  - Deduce the algebraic value of the induced current during one period.
  - Calculate the total electric power induced in the equivalent generator and the power dissipated in the loop during  $[0; 2\text{ms}]$ .
- The wire joining A and D is removed. A and D are connected to an multimeter (Fig. 3). Consider the time interval  $[0; 2\text{ms}]$ .
  - Draw the equivalent generator of the loop.
  - 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.



- Give the name of the physical phenomenon that is responsible for the passage of this current.
- Give, with justification, the name of each face of the coil.
- The induced current passes from C to A through the resistor. Why?
- 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

**Jearl Walker**



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