

## CHAPTER - 5

# ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

- Q1.** Electromagnetic induction takes place not only in circuits, but also in pieces of metals.
- a) State the Faraday's law of electromagnetic Induction.
  - b) Give an application of eddy current . (Explain)
  - c) A coil having an area of cross section  $0.05\text{m}^2$  and number of turns 100 is placed at right angles to a magnetic field of strength  $0.08\text{T}$ . 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.

# Study Guide Answers Electromagnetic Induction

**Raymond A. Serway, Steven Van Wyk**



## **Study Guide Answers Electromagnetic Induction:**

## **Study Guide Answers Electromagnetic Induction** Book Review: Unveiling the Power of Words

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