

Chapter 5

Electromagnetic Induction

Answer the following Questions :

1. A coaxial cable consists of two thin coaxial cylinders electrically connected at one end; an inner cylindrical conducting tube of radius a carrying a steady current I which is screened by an outer cylindrical conducting sheath of radius b which provides a return path. There is no dielectric medium present.

Use Ampere's theorem to derive the total magnetic energy stored in the space between the conductors. Show that the inductance of a length l of the cable is

$$L = \frac{\mu_0 I}{2\pi} \ln\left(\frac{b}{a}\right)$$

If this cable ($a = 5$ mm, $b = 10$ mm, $l = 1000$ m) is now employed in a (resistanceless) LC circuit containing a capacitance $C = 1000 \mu\text{F}$, determine the period of oscillations (neglect the capacitance of the cable itself).

2. A vertical square loop of copper wire with sides of length 10 cm is falling as shown from a region where the magnetic field is horizontal and of magnitude 1.2 T into a region where the field is zero, as shown in figure. The wire has a diameter of 1 mm.



- (i) Calculate the magnitude of the current round the loop in terms of the velocity v of fall, and indicate its sense.
- (ii) What is the magnetic force acting on the loop, again expressed in terms of v ?
- (iii) If the velocity of fall reaches a steady value whilst the upper arm of the circuit remains in the field, calculate this velocity.

(The resistivity of copper is $1.7 \times 10^{-8} \Omega \text{ m}$; the density is 8960 kg m^{-3} .)

3. Two parallel rectangular superconducting plates of length l , width b and separation a ($l \gg b \gg a$) are joined at each end to form a one-turn coil of negligible resistance. What is its self-inductance? How much energy is stored in the magnetic field when a steady current I flows? The separation a increases by a small amount δa . Calculate the various energy changes (a) when the coil includes in its circuit a lossless battery which maintains a constant current I , and (b) when the circuit consists of the coil alone. Deduce the magnitude and direction of the force per unit area between the two plates.

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