

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

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

If this cable ($a = 5$ mm, $b = 10$ mm, $l = 1000$ m) is now employed in a (resistanceless) LC circuit containing a capacitance $C = 1000$ μ 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 $1.7 \times 10^{-8} \Omega \cdot \text{m}$; 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.

Electromagnetic Induction Explore Learning Answer Keys

Sabine Zange



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