

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 1.7×10^{-8} Ω 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

Minjie Lin



Electromagnetic Induction Explore Learning Answer Keys:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Electromagnetic Induction Explore Learning Answer Keys**

In a world inundated with monitors and the cacophony of immediate conversation, the profound power and mental resonance of verbal artistry usually diminish into obscurity, eclipsed by the constant barrage of noise and distractions. Yet, set within the lyrical pages of **Electromagnetic Induction Explore Learning Answer Keys**, a charming perform of fictional brilliance that impulses with natural feelings, lies an memorable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus books viewers on an emotional odyssey, softly revealing the latent potential and profound affect stuck within the elaborate web of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main styles, dissect their charming writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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