

MAGNETISM AND MATTER

Magnetism & Matter

Current loop of area $A = \pi r^2$ carrying current i may be replaced by a magnetic dipole of dipole moment $\mu = iad = iA$

$\vec{\mu} = i\vec{a} = \frac{dq}{dt} \times \pi r^2$
 $= i\pi r^2$
 $\vec{\mu} = \frac{-e}{2m_e} \vec{L}$
 $\mu = iad$
 $i =$ magnetic charge or pole strength
 $d =$ separation between poles
 $r =$ radius of circular orbit
 $q =$ charge on electron
 $v =$ speed of electron
 $L =$ angular momentum
 $m_e =$ mass of electron

End on position
 $B = \frac{\mu_0 2M}{4\pi d^3}$
 $M = 2ad$
 $(d \gg a)$

Broadside Position
 $B = \frac{\mu_0 M}{4\pi (d^2 + a^2)^{3/2}}$
For $d \gg a$
 $B = \frac{\mu_0 M}{4\pi d^3}$

$U_0 = U_1 - U_2 = -MB \cos\theta = -\vec{M} \cdot \vec{B}$
we take P.A. at $\theta = 90^\circ$ to be zero

$\tau = \vec{M} \times \vec{B} = MB \sin\theta$
 $M = 2ad$
 $B =$ Magnetic field

Consider Loop
Revolving Electron
Dipole moment

$\mu = NIA$
 $N =$ no. of turns
 $I =$ current
 $A =$ area

Bar Magnet

Magnetic field intensity
Potential Energy of a field magnet system

Torque

Magnetic Intensity

Magnetic permeability

Magnetic susceptibility

Intensity of magnetization

Time period oscillating bar magnet

$$\mu_0 = \frac{B}{H}$$

$$\mu = \mu_0(1 + \chi_m)$$

$$\chi = \frac{1}{\mu_0}$$

$$I = \frac{M}{V}$$

$$(T) = 2\pi \sqrt{\frac{I}{M B}}$$

Earth is a natural source of magnetic field having geomagnetic north and geomagnetic south pole

Earth's Magnetic field

Declination

Angle b/w magnetic meridian and geographical meridian.

Angle made by earth's magnetic field with horizontal in the magnetic direction
 $B_{\text{geom}} = B_{\text{mag}} \cos\theta$

Dipination or dip ϕ
Horizontal component

$B_H = B \cos\theta$
 B_H (at pole) = 0
 B_H (at equator) is maximum

Magnetic field Lines

Continuous, imaginary lines which represent the direction of magnetic field.



Magnetic Substance

Para-magnetism

Tendency to increase the magnetic field due to magnetization, e.g. Al, Mn ($\chi_m, \mu_r > 1$)

Ferro-magnetism

Tendency of strong magnetization in the direction of magnetic field e.g. Fe, Co, Ni ($\chi_m, \mu_r \gg 1$)

Diamagnetism

Tendency to magnetise in a direction opposite to direction of magnetic field e.g. Bi, Cu, Hg, N ($\chi_m, \mu_r < 1$)

Magnet in which the magnetic field is produced by an electric current. Magnetic field disappears when current is turned off.

Electromagnet

Magnetism 12th Physics Notes

M Lipman



Magnetism 12th Physics Notes:

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In some sort of inundated with displays and the cacophony of immediate conversation, the profound energy and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, set within the lyrical pages of **Maganetism 12th Physics Notes**, a charming work of fictional splendor that impulses with fresh emotions, lies an remarkable trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this enchanting opus manuals visitors on a psychological odyssey, lightly revealing the latent possible and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is key styles, dissect its captivating writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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