

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 $\mu = md = IA$

$$|\vec{\mu}| = iA = \frac{dq}{dt} \times \pi r^2$$

$$= evr^2$$

$$\vec{\mu} = \frac{-e}{2m_e} \vec{L}$$

$$\mu = md$$

$$m = \text{magnetic charge or pole strength}$$

$$d = \text{separation between poles}$$

$$r = \text{radius of circular orbit}$$

$$e = \text{charge on electron}$$

$$v = \text{speed of electron}$$

$$L = \text{angular momentum}$$

$$m_e = \text{mass of electron}$$

Revolving Electron
Circular Loop
Dipole moment

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

End-on position

$$B = \frac{\mu_0}{4\pi} \frac{2M}{d^3}$$

$$M = 2md$$

$$(d \gg r)$$

Broadside Position

$$B = \frac{\mu_0}{4\pi} \frac{M}{d^3 \sqrt{1 + \frac{d^2}{r^2}}}$$
 For $d \gg r$

$$B = \frac{\mu_0}{4\pi} \frac{M}{d^3}$$

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

$$\tau = \vec{M} \times \vec{B} = MB \sin \theta$$

$$M = 2md$$

$$B = \text{Magnetic field}$$

Magnetic field intensity
Bar Magnet
Torque
Potential Energy of a field Magnet system

Bar Magnet

Magnetic Intensity

Magnetic permeability

Magnetic susceptibility

Intensity of magnetization

Electromagnets

Earth is a natural source of magnetic field having geometric north and geometric 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

$$\theta_{\text{dip}} = \theta_{\text{geom}} = \theta$$

Horizontal component

$$B_H = B \cos \theta$$

$$B_H \text{ (at pole)} = 0$$

$$B_H \text{ (at equator) is maximum}$$

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 ($\mu_r > 1$)

Ferromagnetism

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

Diamagnetism

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

Time period oscillating bar magnet

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

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

$$\chi = \frac{I}{H}$$

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

$$T = 2\pi \sqrt{\frac{I}{MB}}$$

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

Magnetism 12th Physics Notes

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