

# Electromagnetism

\* Magnetic Field due to current in long straight wire:-

- Hans Oersted.
- Magnetic field is set up in region surrounding a current carrying wire.
- Field lines are circular. (concentric circles  $\rightarrow$  infinite)

• If  $I=0 \Rightarrow B=0$ .

• Magnetic field at Point P

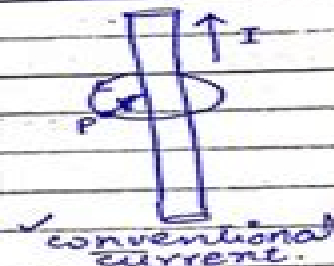
$$B = \frac{\mu_0 I}{2\pi r}$$

• Direction is found by

Right hand rule.

• When magnetic compass is placed in uniform 'B' it experiences only torque.

• When placed in non-uniform 'B', it experiences both torque and force.



Q. A current is flowing in a straight conductor vertically upward. The direction of magnetic field when seen below conductor is

✓ Clockwise

\* Force on a conductor carrying current in uniform magnetic field.

$$F \propto I ; F \propto L ; F \propto B ; F \propto \sin \theta$$

$$F = ILB \sin \theta$$

$$\vec{F} = I(\vec{L} \times \vec{B})$$

$$B = \frac{F}{IL \sin \theta}$$

•  $F = F_{\max}$      $\theta = 90^\circ$

•  $F = F_{\max}/2$      $\theta = 30^\circ$

•  $F = F_{\max}/\sqrt{2}$      $\theta = 45^\circ$

Tesla =  $\text{NA}^{-1}\text{m}^{-1}$

1 Gauss =  $10^{-4} \text{ T}$

# Msce Electromagnetism Notes

**R Pring**



## **Msce Electromagnetism Notes:**

Uncover the mysteries within is enigmatic creation, Embark on a Mystery with **Msce Electromagnetism Notes** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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