



## Quick Review

Produced by current carrying wire

Discovered by Oersted

**Magnetic fields**

gives rise to

**Magnetic force**

application

**Cyclotron**  
$$r = \frac{mv}{qB} = \frac{qBt}{2\pi m}$$

- Magnetic dipole moment
- Magnetic potential energy
- Force of attraction/repulsion between two parallel currents  
$$F = \frac{\mu_0}{4\pi} \frac{2i_1 i_2 L}{a}$$
- Torque on current carrying loop  
$$\tau = NIAB \sin\theta = mB \sin\theta$$

**Force on charge**

- Moving in a uniform magnetic field  
$$F = q(\vec{v} \times \vec{B}) = qvB \sin\theta$$
- In an electric field:  $F = q\vec{E}$
- Combined electric and magnetic field.  
Lorentz force equation:  
$$F = F_e + F_m = q\vec{E} + q(\vec{v} \times \vec{B})$$

**Lorentz Force**

- Force on electron in a coil of length  $L$   
$$F = -q(\vec{v}_e \times \vec{B})$$
- Force on a conductor of length  $l$  carrying current  $I$  in a magnetic field ( $B$ )  
$$F = I(\vec{l} \times \vec{B}) = IlB \sin\theta$$

can be determined using

**Biot-Savart's law**

Biot-Savart's law  
$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{I d\vec{s} \times \vec{r}}{r^3}$$

Magnetic field on the axis of a circular loop



$$B = \frac{\mu_0}{4\pi} \frac{2\pi a^2 I x}{(a^2 + x^2)^{3/2}}$$

Magnetic field at the centre of current-carrying circular loop



Arc that subtends  $\theta$  at centre

$$B = \frac{\mu_0 I \theta}{4\pi a}$$

For semi-circular arc,  $\theta = \pi$

For circular arc,  $\theta = 2\pi$

**Ampere's Law**

- Mathematically,  
$$\oint \vec{B} \cdot d\vec{s} = \mu_0 I$$
- Magnetic field at point P due to current carrying wire expression.  
$$\oint \vec{B} \cdot d\vec{s} = \mu_0 I$$



$$B = \frac{\mu_0 I}{4\pi a} (\sin \phi_2 - \sin \phi_1)$$

$$= \frac{\mu_0 I}{4\pi a} (\cos \alpha - \cos \beta)$$

Magnetic field due to long straight Solenoid/Toroid:

- At a point well inside a Solenoid having 'n' turns per unit length carrying current  $i$ ,  $B = \mu_0 ni$
- For a point outside a solenoid, field is zero
- For a toroid, magnetic field at a point along its axis,  $B = \frac{\mu_0 NI}{2\pi r}$

# 12th Electronics Target Notes

**Yan Bai**



## **12th Electronics Target Notes:**

## **12th Electronics Target Notes** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **12th Electronics Target Notes**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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