

10. Magnetic Fields due to Electric Current

Shortcuts

1. If a current carrying circular loop ($n = 1$) is turned into a coil having n identical turns then magnetic field at the centre of the coil becomes n^2 times the previous field.
i.e., $B_{(n \text{ turns})} = n^2 B_{(\text{single turn})}$
2. The value of magnetic field induction at a point, on the centre of separation of two linear parallel conductors carrying equal currents in the same direction is zero.
- 3.

Sr. No.	Condition	Figure	Magnetic field
i.	Three quarter semi-circular current carrying arc		$B = \frac{\mu_0}{4\pi} \left(\frac{2\pi - \frac{\pi}{2}}{r} \right) I$ $= \frac{3\mu_0 I}{8r}$
ii.	Concentric co-planar circular loops carrying current in the same direction		$B = \frac{\mu_0}{2} I \left(\frac{1}{r_1} + \frac{1}{r_2} \right)$
iii.	Concentric co-planar circular loops carrying current in the opposite direction		$B = \frac{\mu_0}{2} I \left(\frac{1}{r_1} - \frac{1}{r_2} \right)$
iv.	Concentric loops but their planes are perpendicular to each other		$B = \sqrt{B_1^2 + B_2^2}$ $= \frac{\mu_0}{2r} \sqrt{I_1^2 + I_2^2}$

Sr. No.	Condition	Figure	Magnetic field
v.	Concentric loops but their planes are at an angle θ with each other		$B = \sqrt{B_1^2 + B_2^2 + 2B_1 B_2 \cos \theta}$
vi.	Distribution of current across the diameter		$B = 0$
vii.	Distribution of current between any two points on the circumference		$B = 0$

Mindbenders

1.
 - i. Electric force is an absolute concept while magnetic force is a relative concept for an observer. This is because motion is relative concept. Hence the magnetic field due to motion of charge is also relative. For example, when a charge is moving relative to you, there is a definite magnetic field associated with the moving charge. But if you move along with the charge and there is no relative motion between charge and you, there is no magnetic field associated with the charge.
 - ii. This also means that, magnetic force is velocity dependent, while electric force is independent of the state of rest or motion of the charged particle.
2. If a particle enters a magnetic field normally to the magnetic field, then it starts moving in a circular orbit. The point at which it enters the magnetic field lies on the circumference. (Normally, it is confused for the centre of the orbit.)

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Michael Nelkon



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