

Part A - Magnetic Circuits

Magnetic Field: Magnetic field is the area around a magnet in which there is influence of the magnet. The magnetic field around a magnet is shown through lines of force which are closed curves.

The lines of force come out of the magnet body from the north pole and enter the south pole and close their path through the magnet's body.

Magnets – Two types : Permanent magnets, Electromagnets.

Permanent Magnets: Permanent magnets are made of materials like Alnico (Alloy of aluminium, nickel, and cobalt), iron, in which the magnetism once created is retained for a very long time i.e. the magnetic property is permanently set.

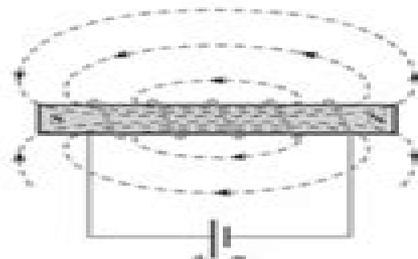
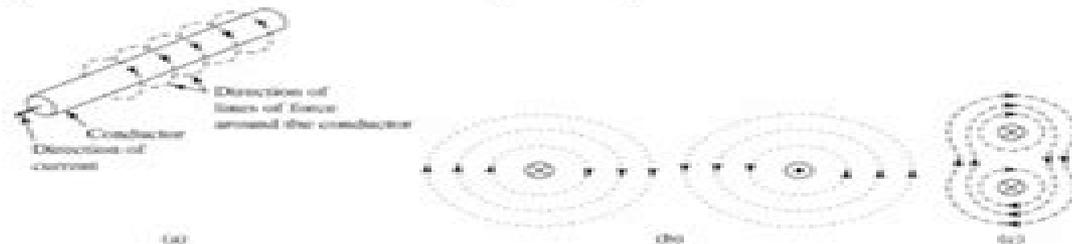
Electromagnets: They are produced by current carrying conductors. They are made by placing a coil around a magnetic material which forms the core. They demonstrate magnetic properties as long as current flows through the coil.

Electromagnetic fields produced by line conductor, coiled conductor (solenoid)

Fig a. Current carrying conductor producing a magnetic field

Fig b. cross sectional view of conductors and their flux lines

Fig c. two conductors carrying currents in same directions



Magnetic field of a solenoid

Right hand grip rule (Maxwell): If current carrying conductor is held in right hand with thumb in the direction of current, then the direction in which your fingers curl, gives the direction of lines of force of the magnetic field

Grip rule for solenoid: If the solenoid is gripped with the right hand, with the fingers pointing in the direction of the current, then the thumb points in the direction of the magnetic field inside the solenoid.

With a coil of N turns, carrying a current I coiled around a core, then total current linking with the magnetic circuit is $NI =$ magnetomotive force, mmf ; Units: Ampere-turns (At)

MMF per meter length of the magnetic circuit is $H =$ magnetic field strength $= NI / L$ Units: At/ m or A/m

$B =$ flux per unit area $= \mu H = \mu_0 \mu_r H$, units: tesla or T

$Mmf / \text{flux} = mmf / \phi = HL/ BA \rightarrow S = L/BA$ where S is reluctance $= (1/ \mu_0 \mu_r) L/A$; units: At/wb

MAGNETIC MATERIALS & PROPERTIES

(a) **Types & property of permeability:** Diamagnetic - $\mu_r < 1$, paramagnetic - $\mu_r > 1$, ferromagnetic materials \rightarrow permeability $\gg \gg$ free space permeability (2000- 6000 times the permeability of free space)

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