

BASIC ELECTRICAL ENGINEERING

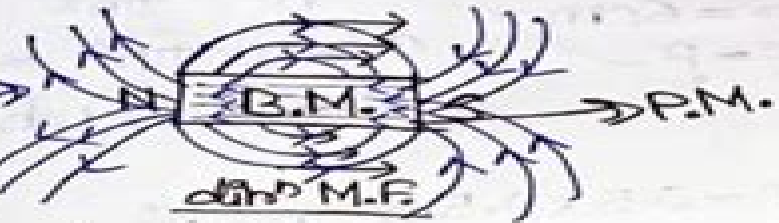
Magnetism

Magnetic Field

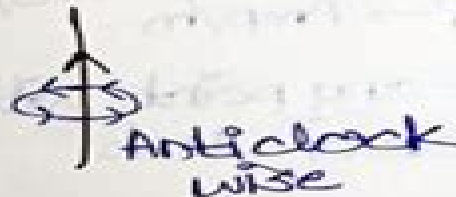
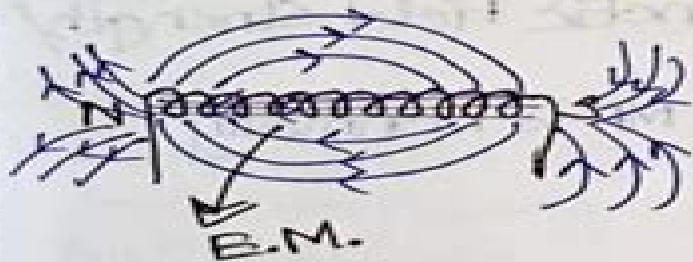
Magnetic Field Line

created by

1. Bar Magnet
2. current carrying wire



- i) inside: S → N
- ii) outside: N → S
- iii) Don't intersect each other.



$$I \propto V$$

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

MMF/Magneto motive force

$$M = N * I = \text{turn} \times \text{Amp} = \text{Amp-turn (AT)}$$

① $N = 700$
 $I = 2$
 $\therefore M = 1400 \text{ AT}$

② $N = 350$
 $M = 525 \text{ AT}$
 $\therefore I = 1.5 \text{ Amp}$

③ $M = 6396$
 $I = 6.5 \text{ Amp}$
 $\therefore N = 984 \text{ turn}$

Magnetic Flux ϕ (Weber/Wb)

Magnetic Flux density is defined by flux per area

'B' Weber/m² = Tesla

$$B = \frac{\phi}{A} \rightarrow \text{weber/m}^2$$

↙ Analogous to electric current density.

Basic Electrical Engineering Notes 1st Sem

Xiang Xie



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