

# BASIC ELECTRICAL ENGINEERING

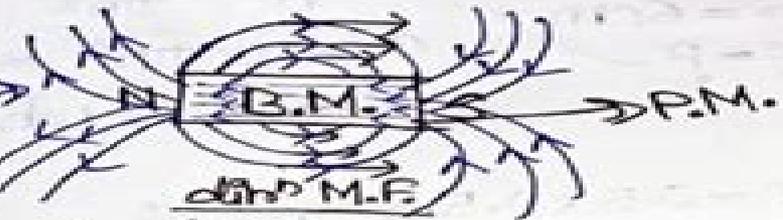
## Magnetism

Magnetic Field

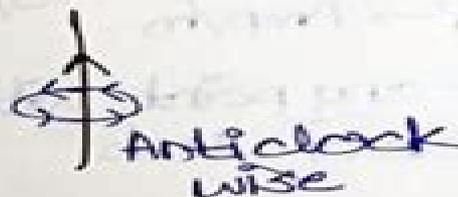
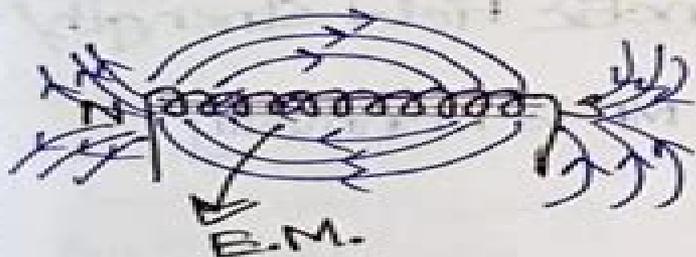
Magnetic Field Line

created by

1. Bar Magnet
2. current carrying wire



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



$$I < V$$

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

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  $\phi$  (Weber/Wb)

Magnetic Flux density, is defined by flux per area  
 $'B'$  Weber/m<sup>2</sup> = Tesla

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

↙ Analogous to electric current density.

# Basic Electrical Engineering Notes 1st Sem

**Christian Drosten**



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