

BASIC ELECTRICAL ENGINEERING

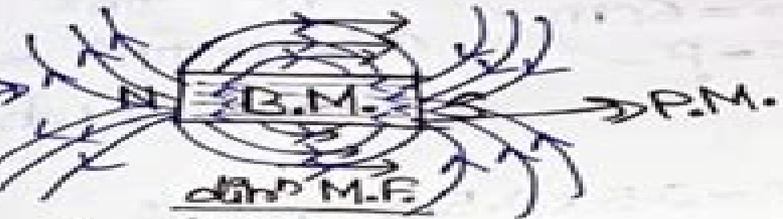
Magnetism

Magnetic Field

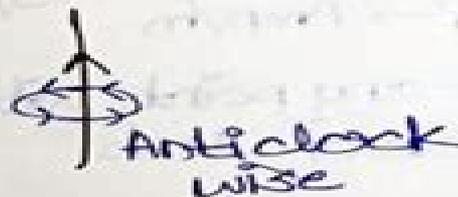
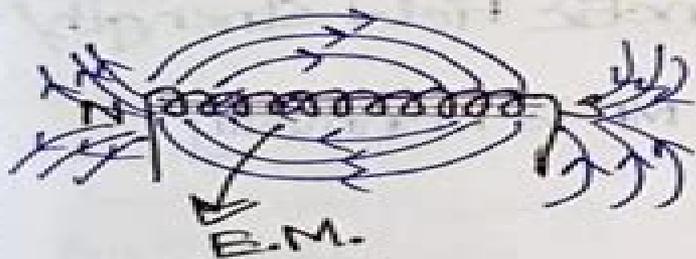
Magnetic Field Line

created by

1. Bar Magnet
2. current carrying wire



- i) inside: S \rightarrow N
- ii) outside: N \rightarrow 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

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

Analogue to electric current density.

Basic Electrical Engineering Notes 1st Sem

Léo Pomar



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The Electrical Engineer ,1897 *Bulletin of the University of Minnesota, the College of Engineering and Architecture*
,1910 **Electricity** ,1901 Marine Engineer and Motorship Builder ,1919 **The Electrical Review** ,1926
Electrical Engineering ,1908 *Electrical West* ,1917 *Railway Electrical Engineer* ,1919 American Book
Publishing Record Cumulative, 1950-1977: Non-Dewey decimal classified titles R.R. Bowker Company. Department of
Bibliography,1978 **Electrical Engineer** ,1898 **Journal of Electricity** ,1917 **South African Mining &**
Engineering Journal ,1912 **University of Colorado at Denver Catalog** University of Colorado at Denver,2009
Colliery Engineer ,1910 **California Engineer** ,1930 **The Surveyor & Municipal & County Engineer** ,1916
Courses of Study Catholic University of America,Washington Catholic university of America (D.C.),1929 The Builder
,1911 **Building** ,1911 *Surveyor and Municipal and County Engineer* ,1916

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