

# BASIC ELECTRICAL ENGINEERING

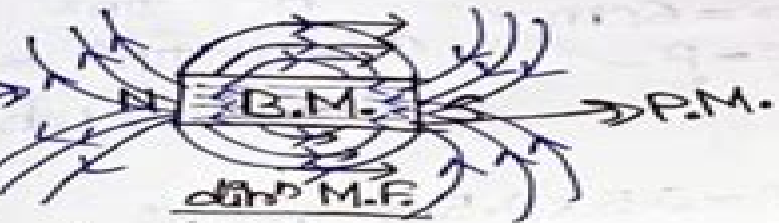
## Magnetism

Magnetic Field

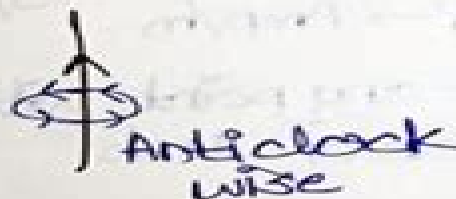
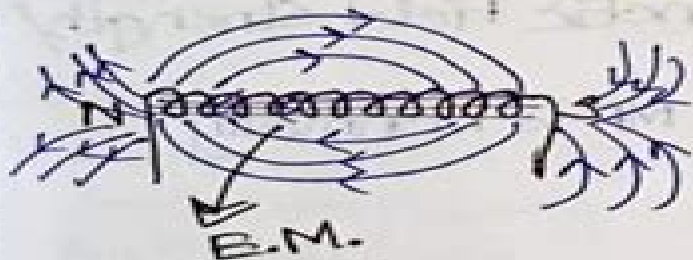
Magnetic Field Line

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

**Patrick Vollmar**



**Basic Electrical Engineering Notes 1st Sem:**

**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  
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### **Table of Contents Basic Electrical Engineering Notes 1st Sem**

1. Understanding the eBook Basic Electrical Engineering Notes 1st Sem
  - The Rise of Digital Reading Basic Electrical Engineering Notes 1st Sem
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Engineering Notes 1st Sem
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Basic Electrical Engineering Notes 1st Sem
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Engineering Notes 1st Sem

- Personalized Recommendations
  - Basic Electrical Engineering Notes 1st Sem User Reviews and Ratings
  - Basic Electrical Engineering Notes 1st Sem and Bestseller Lists
5. Accessing Basic Electrical Engineering Notes 1st Sem Free and Paid eBooks
- Basic Electrical Engineering Notes 1st Sem Public Domain eBooks
  - Basic Electrical Engineering Notes 1st Sem eBook Subscription Services
  - Basic Electrical Engineering Notes 1st Sem Budget-Friendly Options
6. Navigating Basic Electrical Engineering Notes 1st Sem eBook Formats
- ePub, PDF, MOBI, and More
  - Basic Electrical Engineering Notes 1st Sem Compatibility with Devices
  - Basic Electrical Engineering Notes 1st Sem Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Basic Electrical Engineering Notes 1st Sem
  - Highlighting and Note-Taking Basic Electrical Engineering Notes 1st Sem
  - Interactive Elements Basic Electrical Engineering Notes 1st Sem
8. Staying Engaged with Basic Electrical Engineering Notes 1st Sem
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Electrical Engineering Notes 1st Sem
9. Balancing eBooks and Physical Books Basic Electrical Engineering Notes 1st Sem
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Electrical Engineering Notes 1st Sem
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Basic Electrical Engineering Notes 1st Sem
- Setting Reading Goals Basic Electrical Engineering Notes 1st Sem
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Electrical Engineering Notes 1st Sem

- Fact-Checking eBook Content of Basic Electrical Engineering Notes 1st Sem
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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