

BASIC ELECTRICAL ENGINEERING

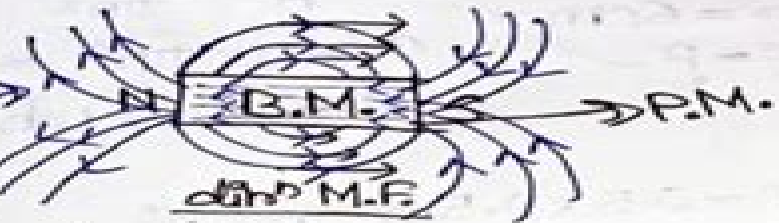
Magnetism

Magnetic Field

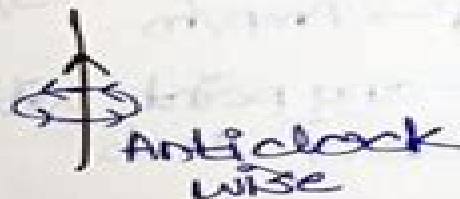
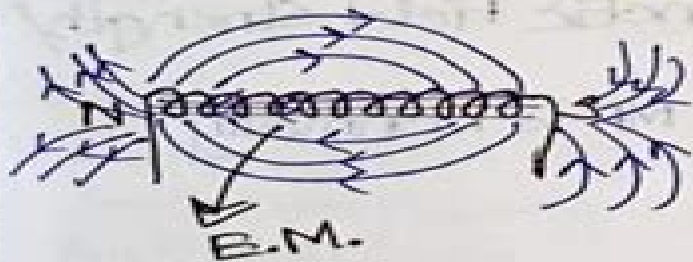
Magnetic Field Line

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/ m^2 = Tesla

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

Analogue to electric current density.

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P B Karandikar



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National Union Catalog, 1979 Library of Congress,1980 Basic Electrical Engineering John Shepherd,1961

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Table of Contents Basic Electrical Engineering Notes 1st Sem Vtu

1. Understanding the eBook Basic Electrical Engineering Notes 1st Sem Vtu
 - The Rise of Digital Reading Basic Electrical Engineering Notes 1st Sem Vtu
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Engineering Notes 1st Sem Vtu
 - 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 Vtu
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Engineering Notes 1st Sem Vtu
 - Personalized Recommendations
 - Basic Electrical Engineering Notes 1st Sem Vtu User Reviews and Ratings

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