

ELECTROMECHANICAL ENERGY CONVERSION

INTRODUCTION

Although the lines of magnetic flux have no physical existence, they do form a very convenient and useful basis for explaining various magnetic effects and to calculate the magnitudes of various magnetic quantities. The complete closed path followed by any group of magnetic flux lines is referred as magnetic circuit. The lines of magnetic flux never intersect, and each line forms a closed path. Whenever a current is flowing through the coil there will be magnetic flux produced and the path followed by the magnetic flux is known as magnetic circuit. The operation of all the electrical devices like generators, motors, transformers etc. depend upon the magnetism produced by this magnetic circuit. Therefore, to obtain the required characteristics of these devices, their magnetic circuits have to be designed carefully.

I – FUNDAMENTALS OF MAGNETIC CIRCUITS

Magneto Motive Force (MMF)

The magnetic pressure which sets up or tends to set up magnetic flux in a magnetic circuit is known as MMF.

1. Magneto motive force is the measure of the ability of a coil to produce flux.
2. The magnetic flux is due to the existence of the MMF caused by a current flowing through a coil having no. of turns.
3. ∴ A coil with 'N' turns carrying a current of 'I' amperes represents a magnetic circuit producing an MMF of NI MMF=NI
4. Units of MMF = Ampere turns(AT)

Magnetic Flux:

1. The amount of magnetic lines of force set-up in a magnetic circuit is called magnetic flux.
2. The magnetic flux, that is established in a magnetic circuit is proportional to the MMF and the proportional constant is the reluctance of the magnetic circuit.

Magnetic flux $\propto$ MMF

$$\text{Magnetic flux} = \frac{\text{MMF}}{\text{RELUCTANCE}} = \frac{NI}{S}$$

3. The unit of magnetic flux is Weber.

Reluctance:

1. The opposition offered to the flow of magnetic flux in a magnetic circuit is called reluctance
2. Reluctance of a magnetic circuit is defined as the ratio of magneto motive force to the flux established.

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Gerald F. Girtman



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Table of Contents Em1 Study Guide

1. Understanding the eBook Em1 Study Guide
 - The Rise of Digital Reading Em1 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Em1 Study Guide
 - 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 Em1 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Em1 Study Guide
 - Personalized Recommendations
 - Em1 Study Guide User Reviews and Ratings
 - Em1 Study Guide and Bestseller Lists
5. Accessing Em1 Study Guide Free and Paid eBooks
 - Em1 Study Guide Public Domain eBooks
 - Em1 Study Guide eBook Subscription Services
 - Em1 Study Guide Budget-Friendly Options

6. Navigating Em1 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Em1 Study Guide Compatibility with Devices
 - Em1 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Em1 Study Guide
 - Highlighting and Note-Taking Em1 Study Guide
 - Interactive Elements Em1 Study Guide
8. Staying Engaged with Em1 Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Em1 Study Guide
9. Balancing eBooks and Physical Books Em1 Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Em1 Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Em1 Study Guide
 - Setting Reading Goals Em1 Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Em1 Study Guide
 - Fact-Checking eBook Content of Em1 Study Guide
 - 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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