

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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Ronald D. Ziemian



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Practical LPIC-1 Linux Certification Study Guide David Clinton, 2016-11-11 This book is your complete guide to studying for the Linux Professional Institute's Server Professional LPIC 1 certification Every concept principle process and resource that might make an appearance on the exam is fully represented You will understand every concept by rolling up your sleeves opening up a terminal and trying it all yourself You will find suggestions for practical tasks along with test yourself quizzes at the end of each chapter Whether you've decided to earn the Linux Professional Institute's Server Professional certification or you simply want to learn more about Linux administration this book is a great choice Right now Linux administration skills are opening doors to some of the hottest job markets And with the ongoing explosive growth of the cloud computing world the vast majority of which is being built with Linux the scope of the opportunities will only increase Whether or not you end up taking the exam if you manage to learn this material you'll have done yourself a real favor What You Will Learn Basic Linux system administration and package management Device and desktop management Bash scripting Networking fundamentals Security administration Who This Book Is For Most potential readers will already have a decent idea of what Linux is and what kinds of things can be done with it and are looking to acquire or formalize a more structured and complete ability to confidently administrate Linux systems **Maths in Action Tg 6a Em1/2** Swee Fong Ng, 2006

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