

INTRODUCTION TO ELECTRICAL ENGINEERING

I. Define "Electricity"

1. Photo-Electric Effect – Emission of electrons when electromagnetic radiation, such as light, hits a material.
2. Thermo-electric Effect – Direct conversion of temperature differences to electric voltage and vice versa via a thermocouple.
 - Galvanometer - Instrument used to measure small amount of current and voltage.
 - Bimetallic material
 - Thermocouple
 - Overload Heater
 - Thermal Scanner
 - Infrared Scanner
3. Chemical Effect – Cell (Battery)
4. Piezoelectric Effect – Ability of certain materials to generate an electric charge in response to applied mechanical stress.
5. Triboelectric Effect – Materials become electrically charged after coming into contact with another diff. material, and are then separated. Either by friction and produced static electricity.
6. Electromagnetic Effect – All electrical equipment gains current.
 - Generator
 - Automobile
 - Alternator
 - Powerplant

2 Types of Electricity

1. Static – Attraction of Negative ions (-) to Positive ions (+).
2. Dynamic – Continuous Attraction.

II. Electrical Engineering

- Professional engineering that eventually deals with the study and application of
 - a. Electricity
 - b. Electronics
 - c. Electromagnetism
- The field became identifiable occupation in later 19th century after commercialization of *electric telegraph*, *telephone* and *electric power distribution*.
- In this field, broadcasting and recording made electronics part of daily use.

Electrical Engineering Lecture Notes

JG Myers



Electrical Engineering Lecture Notes:

Lecture Notes in Electrical Engineering, 2017 *Electrical Machines* Dr. Hidaia Mahmood Alassouli, 2020-04-01 This book includes my lecture notes for electrical machines course. The book is divided into different learning parts:

Part 1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines.

Part 2 Explain the principles underlying the performance of three phase electrical machines.

Part 3 Analyse, operate and test three phase induction machines.

Part 4 Investigate the performance, design, operation and testing of the three phase synchronous machine.

Part 1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines. Describe the construction of simple magnetic circuits both with and without an air gap. Explain the basic laws which govern the electrical machine operation such as Faraday's Law, Ampere's Law, Biot-Savart's Law and Lenz's Law. Apply Faraday's Law of electromagnetic induction, Ampere's Law, Biot-Savart's Law and Lenz's Law to solve for induced voltage and currents in relation to simple magnetic circuits with movable parts. Illustrate the principle of the electromechanical energy conversion in magnetic circuits with movable parts.

Part 2 Explain the principles underlying the performance of three phase electrical machines. Compare and contrast concentric and distributed windings in three phase electrical machines. Identify the advantages of distributed windings applied to three phase machines. Explain how the pulsating and rotating magnetic fields are produced in distributed windings. Calculate the synchronous speed of a machine based on its number of poles and frequency of the supply. Describe the process of torque production in multi phase machines.

Part 3 Analyse, operate and test three phase induction machines. Calculate the slip of an induction machine given the operating and synchronous speeds. Calculate and compare between different torques of a three phase induction machine such as the locked rotor or starting torque, pull up torque, breakdown torque, full load torque or braking torque. Develop and manipulate the equivalent circuit model for the three phase induction machine. Analyse and test experimentally the torque speed and current speed characteristics of induction machines and discuss the effects of varying such motor parameters as rotor resistance, supply voltage and supply frequency on motor torque speed characteristics. Perform no load and blocked rotor tests in order to determine the equivalent circuit parameters of an induction machine. Explore various techniques to start an induction motor. Identify the applications of the three phase induction machines in industry and utility. Classify the insulations implemented in electrical machines windings and identify the factors affecting them.

Part 4 Investigate the performance, design, operation and testing of the three phase synchronous machine. Describe the construction of three phase synchronous machines particularly the rotor, stator windings and the rotor saliency. Develop and manipulate an equivalent circuit model for the three phase synchronous machine. Sketch the phasor diagram of a non salient poles synchronous machine operating at various modes of operation such as no load operation, motor operation and generator operation. Investigate the influence of the rotor saliency on machine performance. Perform open and short circuit tests in order to determine the equivalent circuit parameters of a synchronous machine. Identify the applications

of the three phase synchronous machines in industry and utility List and explain the conditions of parallel operation of a group of synchronous generators Evaluate the performance of the synchronous condenser and describe the power flow control between a synchronous condenser and the utility in both modes over and under excited Explain the principles of controlling the output voltage and frequency of a synchronous generator **Lecture Notes on Electrical Engineering** ,1915 **Power Systems Electrical Engineering** ,1979 **Lecture Notes Prepared for the Fifteenth School in Power System Electrical Engineering** Michael John Gibbard,A. M. Parker,1980 *Notes on Principles of Electrical Engineering (basic Course)* Massachusetts Institute of Technology. Department of Electrical Engineering,1935

Nanoelectronics, Circuits and Communication Systems Vijay Nath,J. K. Mandal,2020-04-01 This book features selected papers presented at the Fourth International Conference on Nanoelectronics Circuits and Communication Systems NCCS 2018 Covering topics such as MEMS and nanoelectronics wireless communications optical communications instrumentation signal processing the Internet of Things image processing bioengineering green energy hybrid vehicles environmental science weather forecasting cloud computing renewable energy RFID CMOS sensors actuators transducers telemetry systems embedded systems and sensor network applications in mines it offers a valuable resource for young scholars researchers and academics alike *The Electrical Engineer* ,1911 **1986 Residential School in Power System Electrical Engineering** ,1986 Electrical Machines Dr. Hidaia Mahmood Alassouli,2020-06-30 This book includes my lecture notes for electrical machines course The book is divided to different learning partsPart 1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines Part 2 Explain the principles underlying the performance of three phase electrical machines Part 3 Analyse operate and test three phase induction machines Part 4 Investigate the performance design operation and testing of the three phase synchronous machine Part1 Apply basic physical concepts to explain the operation and solve problems related to electrical machines Describe the construction of simple magnetic circuits both with and without an air gap Explain the basic laws which govern the electrical machine operation such as Faraday s Law Ampere Biot Savart s Law and Lenz s Law Apply Faraday s Law of electromagnetic induction Ampere Biot Savart s Law and Lenz s Law to solve for induced voltage and currents in relation to simple magnetic circuits with movable parts Illustrate the principle of the electromechanical energy conversion in magnetic circuits with movable parts Part 2 Explain the principles underlying the performance of three phase electrical machines Compare and contrast concentric and distributed windings in three phase electrical machines Identify the advantages of distributed windings applied to three phase machines Explain how the pulsating and rotating magnetic fields are produced in distributed windings Calculate the synchronous speed of a machine based on its number of poles and frequency of the supply Describe the process of torque production in multi phase machines Part 3 Analyse operate and test three phase induction machines Calculate the slip of an induction machine given the operating and synchronous speeds Calculate and compare between

different torques of a three phase induction machine such as the locked rotor or starting torque pull up torque breakdown torque full load torque or braking torque Develop and manipulate the equivalent circuit model for the three phase induction machine Analyse and test experimentally the torque speed and current speed characteristics of induction machines and discuss the effects of varying such motor parameters as rotor resistance supply voltage and supply frequency on motor torque speed characteristics Perform no load and blocked rotor tests in order to determine the equivalent circuit parameters of an induction machine Explore various techniques to start an induction motor Identify the applications of the three phase induction machines in industry and utility Classify the insulations implemented in electrical machines windings and identify the factors affecting them Part4 Investigate the performance design operation and testing of the three phase synchronous machine Describe the construction of three phase synchronous machines particularly the rotor stator windings and the rotor saliency Develop and manipulate an equivalent circuit model for the three phase synchronous machine Sketch the phasor diagram of a non salient poles synchronous machine operating at various modes operation such as no load operation motor operation and generator operation Investigate the influence of the rotor saliency on machine performance Perform open and short circuit tests in order to determine the equivalent circuit parameters of a synchronous machine Identify the applications of the three phase synchronous machines in industry and utility List and explain the conditions of parallel operation of a group of synchronous generators Evaluate the performance of the synchronous condenser and describe the power flow control between a synchronous condenser and the utility in both modes over and under excited Explain the principles of controlling the output voltage and frequency of a synchronous generator

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