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# Electrical Machine 2 By Techmax Publication Plus

**Dr. Hidaia Mahmood Alassouli**



## **Electrical Machine 2 By Techmax Publication Plus:**

Electrical Machines - II Uday A. Bakshi, 2020-11-01 The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the synchronous generators, alternators, synchronous motors, three phase and single phase induction motors, and various special machines. The book is structured to cover the key aspects of the course. Electrical Machines II The book starts with the explanation of basics of synchronous generators including construction, winding details, and e m f equation. The book then explains the concept of armature reaction, phasor diagrams, regulation, and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory, and parallel operation of alternators. The chapter on synchronous motor provides the detailed discussion of construction, working principle, behavior on load, analysis of phasor diagram, Vee and Inverted Vee curves, hunting, and applications. The book further explains the three phase induction motors in detail. It includes the construction, working effect of slip, torque equation, torque ratios, torque slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance, and applications. This chapter includes the discussion of induction generator and synchronous induction motor. The detailed discussion of circle diagram is also included in the book. The book teaches the various starting methods, speed control methods, and electrical braking methods of three phase induction motors. Finally, the book gives the explanation of various single phase induction motors and special machines such as reluctance motor, hysteresis motor, repulsion motor, servomotors, and stepper motors. The discussion of magnetic levitation is also incorporated in the book. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams, and variety of solved problems. The book explains the philosophy of the subject, which makes the understanding of the concepts very clear and makes the subject more interesting. **Electrical**

**Machines - II** Sheila Haran, 2008 **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 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

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 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 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.

**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.

**A Textbook Of Electrical Machines** D B Raval, This is a single volume book on electrical machines that teaches the subject precisely and yet with amazing clarity. The extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters. Thus they will not have to consult multiple books anymore. The discussions of concepts include the modern trends used in industry like efficient transformers, efficient induction motors, DC drives and the problems related to them. **Electrical**

**Machines** Alec Draper,1971      **Electrical Machines - I** Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of various electrical machines is well known in the various engineering fields The book provides comprehensive coverage of the magnetic circuits magnetic materials single and three phase transformers and d c machines The book is structured to cover the key aspects of the course Electrical Machines I The book starts with the explanation of basics of magnetic circuits concepts of self and mutual inductances and important magnetic materials Then it explains the fundamentals of single phase transformers including the construction phasor diagram equivalent circuit losses efficiency methods of cooling parallel operation and autotransformer The chapter on three phase transformer provides the detailed discussion of construction connections phasor groups parallel operation tap changing transformer and three winding transformer The various testing methods of transformers are also incorporated in the book The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems Then the book covers all the details of d c generators including construction armature reaction commutation characteristics parallel operation and applications The book also includes the details of d c motors such as characteristics types of starters speed control methods electric braking and permanent magnet d c motors Finally the book covers the various testing methods of d c machines including Swinburne s test brake test retardation test and Hopkinson s test The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting      **Electrical Machines** ,1978      *Electrical Machine and Protection System* Dr. Anil Kumar Kori,2025-08-30 This book has been written as a text book for the subject of Electrical Machine and Protection System for electrical engineering degree students as well as students of diploma in engineering The author thought that electrical machines are core section of power system and needed protection during power supply hence electrical machine and protection system taken combined in this book This book contains six chapters Chapter 1 deals with synchronous generator and synchronous motor is explained in chapter 2 In chapter 3 special machines have been discussed chapter 4 and 5 discuss the relays Involved in protection system chapter 6 dealing with system protection and circuit breakers It is hoped that this book will be useful to the students for electrical engineering courses The author will be grateful to the readers for their suggestions for improvement of this books      **Electrical Machines. 2.ed. 2: Alternating Current Machines** M.P. Kostenko,L.M. Piotrovskij,1969      *Electrical Machines - II* Uday A. Bakshi,2006      **Electric Machines** Charles I. Hubert,1991 Intended for courses in electrical machinery in which engineering practice is emphasized this text provides coverage of AC and DC machines and stresses industry requirements and the NEMA standards of professional engineers

Traditional theories and concepts of mechanical force are also discussed      Analysis of Electrical Machines Valeria Hrabovcova, Pavol Rafajdus, Pavol Makyš, 2020-05-20 This book is devoted to students PhD students postgraduates of electrical engineering researchers and scientists dealing with the analysis design and optimization of electrical machine properties The purpose is to present methods used for the analysis of transients and steady state conditions In three chapters the following methods are presented 1 a method in which the parameters resistances and inductances are calculated on the basis of geometrical dimensions and material properties made in the design process 2 a method of general theory of electrical machines in which the transients are investigated in two perpendicular axes and 3 FEM which is a mathematical method applied to electrical machines to investigate many of their properties      **Electrical Machines** Hidaya Mahmoud Al-Assouly, 2020-12-23      *The Diagnosing of Troubles in Electrical Machines* Miles Walker, 1921      *Electrical Machines*, 1978      **Lecture Notes for Electrical Machines Course** Hidaia Alassouli Mahmood, 2021-03-13 This book includes my lecture notes for electrical machines course The book is divided to 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      **Electrical Machines** Smarajit Ghosh, 2012 This fully revised second edition of Electrical Machines is systematically organized as per the logical flow of the topics included in electrical machines courses in universities across India It is written as a text cum guide so that the underlying principles can be readily understood and is useful to both the novice as well as advanced readers Emphasis has been laid on physical understanding and pedagogical aspects of the subject In addition to conventional machines the book s extensive coverage also includes rigorous treatment of transformers current potential and welding transformers special machines AC DC servomotors linear induction motors permanent magnet DC motors and application of thyristors in rotating machines      **Electrical Machines** Dieter Gerling, 2014-09-17 Electrical Machines and Drives play a vital role in industry with an ever increasing importance This fact necessitates the understanding of machine and drive principles by engineers of many different disciplines Therefore this book is intended to give a comprehensive deduction of these principles Special attention is given to the precise mathematical deduction of the necessary formulae to calculate machines and drives and to the discussion of simplifications if applied with the associated limits So the book shows how the different machine topologies can be deduced from general fundamentals and how they are linked This book addresses graduate students researchers and developers of Electrical Machines and Drives who are interested in getting knowledge about the principles of machine and drive operation and in detecting the mathematical and engineering specialties of the different machine and drive topologies together with their mutual links The detailed but compact mathematical deduction together with a distinct emphasis onto assumptions simplifications and the associated limits leads to a clear understanding of Electrical Machine and

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