Module 1

Electrical Machine Design and Magnetic Circuit Calculation

ELECTRICAL MACHINE DESIGN

Ques I) Explain the principle of electrical machine designing. Also write the factors for general design consideration and limitations in design for electrical machine.

Ans: Principle of Electrical Machine Designing

There are several specific tasks to be performed by the electrical machines. The design of electrical machines/equipment for the specific applications is based upon the application of theoretical scientific concepts, technology and related inventions. The suitable design depends upon the proper adjustment of iron portion, copper, air gap, insulation, ventilation and cooling of machine. The selection of conducting, magnetic and insulating materials has important role in machine design. We have to explore the availability of the each type of material, its characteristics, which should be according to the specifications and the performance limitations and its cost.

When a machine is to be designed for a specific application then it is gerferred that the designed machine should fulfill the required specifications. But it is very difficult to design a machine which meets all the specifications and requirements. The machine should be cheaper, durable, and reliable and should be able to perform according to requirements, the manufacturing costs, operating and running costs of the machine are considered.

Factors for General Design Consideration for Electrical Machine

The basic components of all electromagnetic apparatus are the field and armature windings supported by dielectric or insulation, cooling system and mechanical parts. Therefore, the factors for consideration in the design are:

- Magnetic Circuit or the Flux Path: Magnetic circuit or the flux path should establish required amount of fluxusing minimum mmf. The core losses should be less.
- 2) Electric Circuit or Windings: Electric circuit or windings should ensure required emf is induced with no complexity in winding arrangement. The copper losses should be less.
- 3) Insulation: Insulation should ensure trouble free separation of machine parts operating at different potential and confine the current in the prescribed paths.

- Cooling system or ventilation: Cooling system or ventilation should ensure that the machine operates at the specified temperature.
- 5) EMF: An emf is induced in a conductor or a set of conductors subjected to a magnetic field in such a manner that either conductor moves and cuts the stationary lines of flux or it (stationary conductors) is cut by the varying lines of flux. In both the cases there will be a relative motion between the conductor and the magnetic field. This is the characteristics of the generator action.
- 6) Conductor: When a conductor or a set of conductors are placed in a magnetic field and an electric current is supplied through the conductor then conductor observes a mechanical force. This is the characteristic of the motor action.
- 7) Armature: The armature of an electrical machine carries the conductors in which the emf is induced. The field portion of the machine produces the magnetic field. The armature may be rotating with stationary field or the armature may be stationary with rotating field. Usually in large machines the armature is stationary (called stator) and the field is rotating (rotor).
- Machine parts: Should be robust.

Limitations in Design

The materials used for the machine and others such as cooling etc., imposes a limitation in design. The limitations stem from saturation of iron, current density in conductors, temperature, insulation, mechanical properties, efficiency, power factor etc.

- Saturation: Higher flux density reduces the volume of iron but drives the iron to operate beyond knee of the magnetization curve or in the region of saturation. Saturation of iron poses a limitation on account of increased core loss and excessive excitation required to establish a desired value of flux. It also introduces harmonics.
- Current Density: Higher current density reduces the volume of copper but increases the losses and temperature.
- Temperature: poses a limitation on account of possible damage to insulation and other materials.
- Insulation: poses a limitation on account of breakdown by excessive voltage gradient, mechanical forces or heat.
- Mechanical Strength: Mechanical strength of the materials poses a limitation particularly in case of large and high speed machines.

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Electromechanical Systems, Electric Machines, and Applied Mechatronics Sergey Edward Lyshevski, 2018-02-06 Recent trends in engineering show increased emphasis on integrated analysis design and control of advanced electromechanical systems and their scope continues to expand Mechatronics a breakthrough concept has evolved to attack integrate and solve a variety of emerging problems in engineering and there appears to be no end to its application It has become essential for all engineers to understand its basic theoretical standpoints and practical applications Electromechanical Systems Electric Machines and Applied Mechatronics presents a unique combination of traditional engineering topics and the latest technologies integrated to stimulate new advances in the analysis and design of state of the art electromechanical systems With a focus on numerical and analytical methods the author develops the rigorous theory of electromechanical systems and helps build problem solving skills He also stresses simulation as a critical aspect of developing and prototyping advanced systems He uses the MATLABTM environment for his examples and includes a MATLABTM diskette with the book thus providing a solid introduction to this standard engineering tool Readable interesting and accessible Electromechanical Systems Electric Machines and Applied Mechatronics develops a thorough understanding of the integrated perspectives in the design and analysis of electromechanical systems It covers the basic concepts in mechatronics and with numerous worked examples prepares the reader to use the results in engineering practice Readers who master this book will know what they are doing why they are doing it and how to do it **Mathematical Models for** the Design of Electrical Machines Frédéric Dubas, Kamel Boughrara, 2021-03-15 This book is a comprehensive set of articles reflecting the latest advances and developments in mathematical modeling and the design of electrical machines for different applications The main models discussed are based on the i Maxwell Fourier method i e the formal resolution of Maxwell's equations by using the separation of variables method and the Fourier's series in 2 D or 3 D with a quasi Cartesian or polar coordinate system ii electrical thermal and magnetic equivalent circuit iii hybrid model In these different papers the numerical method and the experimental tests have been used as comparisons or validations Modeling and High Performance Control of Electric Machines John Chiasson, 2005-05-13 Modeling and High Performance Control of Electric Machines introduces you to both the modeling and control of electric machines. The direct current DC machine and the alternating current AC machines induction PM synchronous and BLDC are all covered in detail The author emphasizes control techniques used for high performance applications specifically ones that require both rapid and precise control of position speed or torque You ll discover how to derive mathematical models of the machines and how the resulting models can be used to design control algorithms that achieve high performance Graduate students studying power and control as well as practicing engineers in industry will find this a highly readable text on the operation modeling and control of electric machines An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley

editorial department Instructor Support materials are also available Email IAline wiley com **Entrepreneurship in Power** Semiconductor Devices, Power Electronics, and Electric Machines and Drive Systems Krishnan Ramu, 2020-12-07 Entrepreneurship in Power Semiconductor Devices Power Electronics and Electric Machines and Drive Systems introduces the basics of entrepreneurship and a methodology for the study of entrepreneurship in electrical engineering and other engineering fields Entrepreneurship is considered here in three fields of electrical engineering viz power semiconductor devices power electronics and electric machines and drive systems and their current practice. It prepares the reader by providing a review of the subject matter in the three fields their current status in research and development with analysis aspect as needed thus allowing readers to gain self sufficiency while reading the book Each field s emerging applications current market and future market forecasts are introduced to understand the basis and need for emerging startups Practical learning is introduced in i power semiconductor devices entrepreneurship through the prism of 20 startups in detail ii power electronics entrepreneurship through 28 startup companies arranged under various application fields and iii electric machines and drive systems entrepreneurship through 15 startups in electromagnetic and 1 in electrostatic machines and drive systems The book i demystifies entrepreneurship in a practical way to equip engineers and students with entrepreneurship as an option for their professional growth pursuit and success ii provides engineering managers and corporate level executives a detailed view of entrepreneurship activities in the considered three fields that may potentially impact their businesses iii provides entrepreneurship education in an electrical engineering environment and with direct connection and correlation to their fields of study and iv endows a methodology that can be effectively employed not only in the three illustrated fields of electrical engineering but in other fields as well This book is for electrical engineering students and professionals For use in undergraduate and graduate courses in electrical engineering the book contains discussion questions exercise problems team and class projects all from a practical point of view to train students and assist Electric Machines Jimmie J. Cathey, 2001 This text contains professionals for future entrepreneurship endeavors sufficient material for a single semester core course in electric machines and energy conversion while allowing some selectivity among the topics covered by the latter sections of Chapters 3 7 depending on a school s curriculum The text can work for either a course in energy design principles and analysis with an optional design project or for a capstone design course that follows an introductory course in energy device principles A unique feature of Electric Machines Analysis and Design Applying MATLAB is its integration of the popular interactive computer software MATLAB to handle the tedious calculations arising in electric machine analysis As a result more exact models of devices can be retained for analysis rather than the approximate models commonly introduced for the sake of computational simplicity Mechanical Design and Manufacturing of Electric Motors Wei Tong, 2022-05-19 This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid

increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers Basic Electric Machines Sanjit Bardhan, Vincent Del Toro, 1990 Electric Machines and Electric Drives DE, NISIT K., DUTTA, SWAPAN K., 2013-09 This problem oriented book provides solutions to the common problems in two major areas of Electrical Engineering discipline such as electric machines and electric drives with power electronics linking them under a single cover It serves as a supplement to textbooks on the subject The book includes as many as 163 well graded solved problems covering topics such as transformer dc machine ac machines induction motor and synchronous types special motors power electronics and electric drives The problems have been solved in a clear and step by step manner Each chapter discusses various formulas and other details such as circuit diagrams and relevant waveforms used to solve the problems The book contains 161 supplementary problems with answers for practice Their complete solutions are also provided at the end of the book The students can hone their skills and enhance their understanding of the subject matter by solving these supplementary problems The book is designed for the undergraduate students of electrical engineering It will also be useful for those preparing for AMIE and competitive examinations Machine Design ,2008 Electric Vehicle Progress, 2002 Schaum's Outline of **Electromagnetics** Joseph A. Edminister, Joseph Edminister, 1995 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum's highlights all the important facts you need

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