

EE1352 ELECTRICAL MACHINE DESIGN

2 MARKS QUESTIONS AND ANSWERS

PREPARED BY

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UNIT - I

FUNDAMENTAL CONCEPTS

1. What are the main dimensions of a rotating machine?

Armature or rotor diameter

Stator core length

2. Define specific magnetic loading

It is defined as the ratio of total flux around the air gap and the area of flux path at the air gap.

3. Define specific electric loading.

It is defined as the ratio of total number of ampere conductors and the armature periphery at the air gap.

4. What is magnetic circuit?

It is the path of magnetic flux. The mmf of the circuit creates flux in the path by overcoming the reluctance of the path.

5. What is leakage flux?

It is the flux passing through unwanted path. The leakage flux will not help either for transfer or conversion of energy.

6. What is leakage coefficient?

It is defined as the ratio of total flux to useful flux.

7. What is fringing flux?

The bulging of magnetic path at the air gap is called fringing. The fluxes in the bulged portion are called fringing effect.

8. What are the factors that modify the reluctance of air gap.

It is modified by slots, radial ventilating ducts and non uniform air gaps.

9. Define gap contraction factor for slots.

It is defined as the ratio of reluctance of air gap of slotted armature to reluctance of air gap of smooth armature.

10. Define gap contraction factor for ducts.

It is defined as the ratio of reluctance of air gap with ducts to reluctance of air gap without ducts.

11. Define total gap contraction factor.

It is defined as the ratio of reluctance of slotted armature with ducts to reluctance of smooth armature without ducts.

12. Define field form factor.

It is the ratio of average gap density over the pole pitch to maximum flux density in the air gap.

13. List the methods used for estimating the mmf for teeth.

Ee1352 Electrical Machine Design Question With Answer

UPADHYAY



Ee1352 Electrical Machine Design Question With Answer:

Design of Rotating Electrical Machines Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova, 2013-09-26 In one complete volume this essential reference presents an in depth overview of the theoretical principles and techniques of electrical machine design This timely new edition offers up to date theory and guidelines for the design of electrical machines taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines New coverage includes Brand new material on the ecological impact of the motors covering the eco design principles of rotating electrical machines An expanded section on the design of permanent magnet synchronous machines now reporting on the design of tooth coil high torque permanent magnet machines and their properties Large updates and new material on synchronous reluctance machines air gap inductance losses in and resistivity of permanent magnets PM operating point of loaded PM circuit PM machine design and minimizing the losses in electrical machines End of chapter exercises and new direct design examples with methods and solutions to real design problems A supplementary website hosts two machine design examples created with MATHCAD rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations Also a MATLAB code for optimizing the design of an induction motor is provided Outlining a step by step sequence of machine design this book enables electrical machine designers to design rotating electrical machines With a thorough treatment of all existing and emerging technologies in the field it is a useful manual for professionals working in the diagnosis of electrical machines and drives A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students postgraduates researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion **Design of Electrical Machines** K. G.

Upadhyay, 2011-07 **Electrical Machine Design** V. S. Nagarajan, V. Rajini, 2018 Electrical Machine Design caters to the requirements of undergraduate and postgraduate students of electrical engineering and industry novices The authors have adopted a flow chart based approach to explain the subject This enables an in depth understanding of the design of different types of electrical machines with an appropriate introduction to basic design considerations and the magnetic circuits involved The book aids students to prepare for various competitive exams through objective questions worked out examples and review questions in increasing order of difficulty MATLAB and C programs and Finite Element simulations using Motor Solve featured in the text offers a profound new perspective in understanding of automated design of electrical machines

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Shanmugasundaram,G. Gangadharan,R. Palani,1989 **Electrical Machine Design** Alexander Gray,2017-10-25 Excerpt from Electrical Machine Design The Design and Specification of Direct and Alternating Current Machinery A study of design is of the utmost importance to all students because only by such a study can a knowledge of the limitations of machines be acquired The machines discussed are those which have become more or less standard namely direct current generators and motors alternating current generators synchronous motors polyphase induction motors and transformers other apparatus seldom offers an electrical problem that is not discussed under one or more of the above headings The principle followed throughout the work is to build up the design for the given rating by the use of a few fundamental formulae and design constants the meaning and limits of which are discussed thoroughly and the same procedure has been followed for the several pieces of apparatus About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works Theory and Design of Electric Machines Frederick Creedy,1929 **Electrical Machines and Drives** John Hindmarsh,1985 **Conventional And Computer Aided Design Of Electrical Machines** UPADHYAY, Electric Machines: Extracts, Examples, E K Murugesh Kumar,2003-01-01 A handy supplement and quick reference guide this book covers the major gamut of Electric Machines including DC Machines Transformers Induction Machines and Synchronous Machines 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 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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