

EE1352 ELECTRICAL MACHINE DESIGN

2 MARKS QUESTIONS AND ANSWERS

PREPARED BY

Sr ANNAL THERESA

SLANNE'S COLLEGE OF ENGINEERING & TECHNOLOGY

ANGUCHETTY PALAYAM

PANRUT-607110

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

V. S. Nagarajan,V. Rajini



Ee1352 Electrical Machine Design Question With Answer:

Electrical Machine Design V Rajini, V S Nagarajan, 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

Electrical Machine Design Alexander Gray, 1926 **Electrical Machine Design - The Design and Specification of Direct and Alternating Current Machinery** Alexander Gray, 2007-03 This early work on electrical machinery is both expensive and hard to find in its first edition It contains details on the design and specification of direct and alternating current machinery This is a fascinating work and is thoroughly recommended for anyone with an interest in electrical engineering Many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce We are republishing these classic works in affordable high quality modern editions using the original text and artwork

Design of Rotating Electrical Machines Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova, 2009-02-11 In one complete volume this essential reference presents an in depth overview of the theoretical principles and techniques of electrical machine design This book enables you to design rotating electrical machines with its detailed step by step approach to machine design and thorough treatment of all existing and emerging technologies in this field Senior electrical engineering students and postgraduates as well as machine designers will find this book invaluable In depth it presents the following Machine type definitions different synchronous asynchronous DC and doubly salient reluctance machines An analysis of types of construction external pole internal pole and radial flux machines The properties of rotating electrical machines including the insulation and heat removal options Responding to the need for an up to date reference on electrical machine design this book includes exercises with methods for tackling 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 Classroom tested material and numerous graphs are features that further make this book an excellent manual and reference to the topic **Design Of Electrical Machines** V. N. Mittle, 2005-01-01 Basic

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Questions on Design of Synchronous Machines Computer Aided Design of Electrical Machines Design of Lifting Magnets Viva voce Questions Appendix Standard Specifications and Design Data *Principles Of Electrical Machine Design With Computer Programs, 2/E* S.K. Sen,2006 The book gives comprehensive treatment to the principles of electrical machine design It is concise and up to date with special emphasis on the computerised design It has been prepared specifically for engineering college teachers and students and practising engineers to enable them to appreciate the salient aspects of electrical machine design with reference to computer applications Computer programs on small problems written in FORTRAN and C language have been added to guide the readers Contents Basic Considerations Heating and Cooling Main Dimensions Magnetic Circuit Calculations Electric Circuit Calculations Design of Transformer Design of Rotating Machines Finite Element Method Computer Programs in C language Appendices Index Design of Electrical Machines K. G. Upadhyay,2011-07 **Electrical Machine Design Data Book** A. Shanmugasundaram,G. Gangadharan,R. Palani,1989

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

Design and Testing of Electrical Machines M. V. Deshpande,1983 **Design of Electrical Machines** V. N. Mittle,Arvind Mittal,2002 **ELECTRICAL MACHINES** BANDYOPADHYAY, M. N.,2007-09-27 This comprehensive up to date introduction to Electrical Machines is designed to meet the needs of undergraduate electrical engineering students It presents the essential principles of rotating machines and transformers The emphasis is on the performance though the book also introduces the salient features of electrical machine design The book provides accessible student friendly coverage of dc machines transformers three phase induction motor single phase induction motor fractional horsepower motors and synchronous machines The clear writing style of the book enhanced by illustrative figures and simplified explanations of the fundamentals makes it an ideal text for gaining a thorough understanding of the subject of electrical machines Key Features Include Detailed coverage of the construction of electrical machines Lucid explanations of the principles of operation of electrical machines Methods of testing of electrical machines Performance calculations of electrical machines Wealth of diverse solved examples in each chapter to illustrate the application of theory to practical problems Salient features of design of electrical machines Objective type questions to help students prepare for competitive exams *Electrical Machine Design; the Design and Specification of Direct and Alternating Current Machinery* Alexander Gray,2012-01 Unlike some

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