

Introduction to Electrical Machines

- 1) A 0.5 hp, 6 pole induction motor is excited by a three phase, 60 Hz source. If the full load speed is 1140 r/min, calculate the slip.
- 2) The 6-pole wound rotor induction motor is excited by a 3 phase 60 Hz source. Calculate the frequency of the rotor current under the following conditions:
 - a. At standstill
 - b. Motor running at 500 r/min in the same directions as the revolving field
 - c. Motor running at 500 r/min in the opposite directions as the revolving field
 - d. Motor running at 2000 r/min in the same directions as the revolving field
- 3) A 3-phase induction motor having a synchronous speed of 1200 r/min draws 80 kW from a 3-phase feeder. The copper and iron losses in the stator amount to 5kW. If the motor runs at 1152 r/min, calculate the following:
 - a. The active power transmitted to the rotor
 - b. The rotor I^2R losses
 - c. The mechanical power developed
 - d. The mechanical power delivered to the load, knowing that the windage and friction losses are equal to 2 kW
 - e. The efficiency of the motor
- 4) A 460-V, four-pole, 60-hp, 60-Hz, Y-connected three-phase induction motor develops its full-load induced torque at 3.8 percent slip when operating at 60 Hz and 460 V. The per-phase circuit model impedances of the motor are

$$R_1 = 0.33 \, \Omega$$

$$X_M = 30 \, \Omega$$

$$X_1 = 0.42 \, \Omega$$

$$X_2 = 0.42 \, \Omega$$

Mechanical, core, and stray losses may be neglected in this problem.

- a. Find the value of the rotor resistance R_2 .
 - b. Find T_{max} , S_{max} , and the rotor speed at maximum torque for this motor.
 - c. Find the starting torque of this motor.
- 5) A 120-V, 1/3-hp 60-Hz, four-pole, split-phase induction motor has the following impedances:

$$R_1 = 1.80 \, \Omega$$

$$X_1 = 2.40 \, \Omega$$

$$X_M = 60 \, \Omega$$

$$R_2 = 2.50 \, \Omega$$

$$X_2 = 2.40 \, \Omega$$

At a slip of 0.05, the motor's rotational losses are 50 W. The rotational losses may be assumed constant over the normal operating range of the motor. If the slip is 0.05, find the following quantities for this motor:

- a. Draw the equivalent circuit of the motor with Forward and Reverse parameter

Problem And Solution Electrical Machines 2

P.S. Bimbhra, G.C. Garg



Problem And Solution Electrical Machines 2:

Electrical Machines & Power Systems (Problems With Solutions) C S Indulkar, 2012 This book contains problems in Electrical Machines Power Systems Problems with Solutions I have used these and other problems in the class room for many years In most of the solutions I have deliberately avoided giving theoretical explanations because an average student should know the theory well before attempting to solve any problem However in each chapter I have provided a brief introduction related to the chapter so that students are made aware of the contents of the chapter before reading the problems and their solutions The introduction related to each chapter contains Objective type Questions and their answers The introductions contain brief notes on the topics of the chapters and also include Indian Standards for testing and maintenance of substation equipments transformer overhead lines underground cables and materials *Electrical Machines-I* P.S. Bimbhra, G.C. Garg, This book is written so that it serves as a text book for B E B Tech degree students in general and for the institutions where AICTE model curriculum has been adopted TOPICS COVERED IN THIS BOOK Magnetic field and Magnetic circuit Electromagnetic force and torque D C Machines D C Machines Motoring and Generation SALIENT FEATURES Self contained self explanatory and simple to follow text Numerous worked out examples Well Explained theory parts with illustrations Exercises objective type question with answers at the end of each chapter *Proceedings* Brooklyn Engineers' Club, 1899 **2024-25 SSC JE CBT I & II Electrical Engineering Solved Papers** YCT Expert Team , 2024 25 SSC JE CBT I II Electrical Engineering Solved Papers 800 1495 E This book contains 57 online sets previous solved papers with analytical explanation **Electrical Machine Fundamentals with Numerical Simulation using MATLAB / SIMULINK** Atif Iqbal, Shaikh Moinoddin, Bhimireddy Prathap Reddy, 2021-04-12 A comprehensive text combining all important concepts and topics of Electrical Machines and featuring exhaustive simulation models based on MATLAB Simulink Electrical Machine Fundamentals with Numerical Simulation using MATLAB Simulink provides readers with a basic understanding of all key concepts related to electrical machines including working principles equivalent circuit and analysis It elaborates the fundamentals and offers numerical problems for students to work through Uniquely this text includes simulation models of every type of machine described in the book enabling students to design and analyse machines on their own Unlike other books on the subject this book meets all the needs of students in electrical machine courses It balances analytical treatment physical explanation and hands on examples and models with a range of difficulty levels The authors present complex ideas in simple easy to understand language allowing students in all engineering disciplines to build a solid foundation in the principles of electrical machines This book Includes clear elaboration of fundamental concepts in the area of electrical machines using simple language for optimal and enhanced learning Provides wide coverage of topics aligning with the electrical machines syllabi of most international universities Contains extensive numerical problems and offers MATLAB Simulink simulation models for the covered machine types Describes MATLAB Simulink modelling procedure and

introduces the modelling environment to novices Covers magnetic circuits transformers rotating machines DC machines electric vehicle motors multiphase machine concept winding design and details finite element analysis and more Electrical Machine Fundamentals with Numerical Simulation using MATLAB Simulink is a well balanced textbook perfect for undergraduate students in all engineering majors Additionally its comprehensive treatment of electrical machines makes it suitable as a reference for researchers in the field *Solving Problems and Making Decisions* Joe Johnson,1998

Informatics and Cybernetics in Intelligent Systems Radek Silhavy,2021-07-15 This book constitutes the refereed proceedings of the informatics and cybernetics in intelligent systems section of the 10th Computer Science Online Conference 2021 CSOC 2021 held online in April 2021 Modern cybernetics and computer engineering papers in the scope of intelligent systems are an essential part of actual research topics In this book a discussion of modern algorithms approaches techniques is held *2025-26 SSC JE Electrical Engineering Solved Papers* YCT Expert Team , 2025 26 SSC JE Electrical Engineering Solved Papers 656 995 E This book contains previous solved papers from 2007 to 2024 2024-25 SSC JE Electrical Engineering Solved Papers YCT Expert Team , 2024 25 SSC JE Electrical Engineering Solved Papers

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Table of Contents Problem And Solution Electrical Machines 2

1. Understanding the eBook Problem And Solution Electrical Machines 2
 - The Rise of Digital Reading Problem And Solution Electrical Machines 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Problem And Solution Electrical Machines 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Problem And Solution Electrical Machines 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Problem And Solution Electrical Machines 2
 - Personalized Recommendations
 - Problem And Solution Electrical Machines 2 User Reviews and Ratings

- Problem And Solution Electrical Machines 2 and Bestseller Lists
- 5. Accessing Problem And Solution Electrical Machines 2 Free and Paid eBooks
 - Problem And Solution Electrical Machines 2 Public Domain eBooks
 - Problem And Solution Electrical Machines 2 eBook Subscription Services
 - Problem And Solution Electrical Machines 2 Budget-Friendly Options
- 6. Navigating Problem And Solution Electrical Machines 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Problem And Solution Electrical Machines 2 Compatibility with Devices
 - Problem And Solution Electrical Machines 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Problem And Solution Electrical Machines 2
 - Highlighting and Note-Taking Problem And Solution Electrical Machines 2
 - Interactive Elements Problem And Solution Electrical Machines 2
- 8. Staying Engaged with Problem And Solution Electrical Machines 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Problem And Solution Electrical Machines 2
- 9. Balancing eBooks and Physical Books Problem And Solution Electrical Machines 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Problem And Solution Electrical Machines 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Problem And Solution Electrical Machines 2
 - Setting Reading Goals Problem And Solution Electrical Machines 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Problem And Solution Electrical Machines 2
 - Fact-Checking eBook Content of Problem And Solution Electrical Machines 2
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web resolución si aplicamos la expresión para calcular el campo magnético creado por una espira en su centro obtenemos que $b = \mu_0 i / 2r$ $b = 4 \pi \times 10^{-7} \times 30 / 2 \times 5 \times 10^{-2}$ $b = 3.77 \times 10^{-4}$ T

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web hallar el campo magnético módulo dirección y sentido en los puntos 13 cm 0 y en el punto 0 cm 4 cm producido por las dos corrientes por último hallar la fuerza módulo dirección y sentido que ejerce el cable sobre la unidad de longitud del hilo rectilíneo

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web problemas resueltos sobre campo magnético 1 sobre un electrón que se mueve con una velocidad de 5000 km/s actúa en dirección normal su velocidad un campo magnético de 8 T determina el valor de la fuerza que actúa sobre el electrón el radio de la órbita que describe dato $q = 1.6 \cdot 10^{-19}$ C $m_e = 9.1 \cdot 10^{-31}$ kg solución

intensidad de campo magnético ejercicios resueltos fisimat - May 15 2022

web ejercicios resueltos de intensidad de campo magnético problema 1 una barra de hierro cuya permeabilidad relativa es de 12 500 se coloca en una región de un campo magnético en el cual la densidad del flujo magnético vale 0.9 T cuál es la intensidad del campo magnético originada por la permeabilidad del hierro solución

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web problemas resueltos 1 un electrón de carga $q = 1.6 \cdot 10^{-19}$ C se mueve con una velocidad $v = 0.5 \cdot 10^5$ i $0.5 \cdot 10^5$ j m/s en el momento en que pasa por el punto de coordenadas (1, 1) calcular el campo magnético $\mathbf{B}$ que el electrón crea en los puntos (1, 1) y (0, 2) pincha para ver el resultado

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