

OR

- Q.3 (a)** List the various losses occurring in DC machine. Also derive the relationship between armature power developed (P_a) and the output power (P) for both- DC generator and DC motor. **07**
- (b)** A 40 Hz transformer is to be used on a 50 Hz system. Assuming the Steinmetz's coefficient as 1.6 and losses at lower frequency 1.2%, 0.7% and 0.5% for I^2R , hysteresis and eddy current respectively. Find (a) losses on 50 Hz for the same supply voltage and current (b) Output at 50 Hz for the same total losses as on 40 Hz. **07**

- Q.4 (a)** Estimate the leakage reactance of concentric winding in core type transformers clearly stating the assumptions used. **07**
- (b)** Calculate the diameter and length of armature for a 7.5 kW, 4 pole, 1000 r.p.m. 220 V shunt motor. Given: full load efficiency=0.83; maximum gap flux density=0.9 Wb/m²; specific electric loading=30,000 ampere conductors per meter; field form factor=0.7. Assume that the maximum efficiency occurs at full load and field current is 2.5% of rated current. The pole face is square. **07**

OR

- Q.4 (a)** With the help of neat sketch, explain the effect of armature reaction on air gap flux in case of DC machine. **07**
- Q.4 (b)** A 4 pole generator supplies a current of 140 A. It has 480 armature conductors (a) wave connected, (b) lap connected. The brushes are given an actual lead of 10°. Calculate the cross and demagnetizing mmf per pole in each case. The field winding is shunt connected and takes a current of 10 A, find the number of extra shunt field turns to neutralize the demagnetization. **07**

- Q.5 (a)** Describe the different methods adopted to reduce the effect of armature reaction in DC machine. **07**
- (b)** The following particulars refer to the shunt field coil for a 440 V, 6 pole, DC generator:
Mmf per pole=7000 A, depth of winding=50mm; length of inner turn=1.1m; length of outer turn=1.4m; loss radiated from outer surface excluding ends = 1400 W/m²; space factor=0.62; resistivity= 0.02 Ω /m and mm². Calculate (a) the diameter of wire (b) length of coil (c) number of turns and (d) exciting current. Assume a voltage drop of 20 % of terminal voltage across the field regulator. **07**

OR

- Q.5 (a)** State the guiding factors while selecting the no. of armature slots in DC machine. **07**
- (b)** An 11 kV, 25 Hz transformer has I^2R , hysteresis and eddy current losses 1.6, 0.6 and 0.4 percent of the output. What will be the percentage losses if the transformer is connected to 22 kV, 50 Hz supply assuming the full load current to remain the same? **07**

Sample Question Paper Fourth Semester Electrical Engineering

Goyal Brothers Prakashan



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BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS K. Shashidhar, 2013-05-31 *BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS* is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering This book is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education Karnataka This book is divided into eight chapters Chapter 1 Basics of Electricity Chapter 2 Electrostatics Chapter 3 Electromagnetic Induction Chapter 4 AC Fundamentals Chapter 5 AC Circuits Chapter 6 Transformers Chapter 7 Batteries Relays and Motors Chapter 8 Passive Components The text provides detailed explanations and uses numerous easy to follow examples accompanied by diagrams and step by step solutions Illustrative problems are presented in terms of commonly used voltages and current ratings To enhance the utility of the book important points and review questions objective and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests It is hoped that this book will be of immense use to teachers and students of Polytechnics Suggestions for improvement in the future editions of this book will be appreciated I wish to express my gratitude to MEI Polytechnic Bangalore for providing me an opportunity to bring out this text book I am grateful to Sri Nitin S Shah M s Sapna Book House Bangalore for publishing this book I am thankful to M s Datalink Bangalore for meticulous processing of the manuscript of this book

Electrical Circuit Analysis
Uday A. Bakshi, Late Ajay V. Bakshi, 2020-12-10 The importance of Electrical Circuit Analysis is well known in the various engineering fields The book provides comprehensive coverage of mesh and node analysis various network theorems analysis of first and second order networks using time and Laplace domain steady state analysis of a c circuits coupled circuits and dot conventions network functions resonance and two port network parameters The book starts with explaining the network simplification techniques including mesh analysis node analysis and source shifting Then the book explains the various network theorems and concept of duality The book also covers the solution of first and second order networks in time domain The sinusoidal steady state analysis of electrical circuits is also explained in the book The book incorporates the discussion of coupled circuits and dot conventions The Laplace transform plays an important role in the network analysis The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis The book includes the discussion of network functions of one and two port networks The book incorporates the detailed discussion of resonant circuits The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity It also derives the interrelationships between the two port network parameters The book uses plain and lucid language to explain each topic Each chapter gives the conceptual knowledge about the topic dividing it in various sections

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Soares, Germano Veiga, 2018-06-02 This book presents endeavors to join synergies in order to create added value for society using the latest scientific knowledge to boost technology transfer from academia to industry It potentiates the foundations for the creation of knowledge and entrepreneurial cooperation networks involving engineering innovation and entrepreneurship stakeholders The Regional HELIX 2018 conference was organized at the University of Minho's School of Engineering by the METRICs and Algoritmi Research Centers and took place in Guimarães Portugal from June 27th to 29th 2018 After a rigorous peer review process 160 were accepted for publication covering a wide range of topics including Control Automation and Robotics Mechatronics Design Medical Devices and Wellbeing Cyber Physical Systems IoT and Industry 4.0 Innovations in Industrial Context and Advanced Manufacturing New Trends in Mechanical Systems Development Advanced Materials and Innovative Applications Waste to Energy and Sustainable Environment Operational Research and Industrial Mathematics Innovation and Collaborative Arrangements Entrepreneurship and Internationalization and Oriented Education for Innovation Engineering and or Entrepreneurship Teaching and Learning in a Digital World Michael E. Auer, David Guralnick, Istvan Simonics, 2018-02-09 This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning ICL2017 held in Budapest Hungary on 27-29 September 2017 The authors are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of technological developments and global markets and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general but especially in engineering education To face these current real world challenges higher education has to find innovative ways to quickly respond to them Since its inception in 1998 this conference has been devoted to new approaches in learning with a focus on collaborative learning Today the ICL conferences offer a forum for exchange concerning relevant trends and research results and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context *The Electrical Journal*, 1918 **Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014** Aleksandar Marković, Slađana Barjaktarović Rakočević, 2014-06-05 **Proceedings of IAC-TLEI 2015** collective of authors, 2015-07-05 **Engineering Justice** Jon A. Leydens, Juan C. Lucena, 2017-11-17 Shows how the engineering curriculum can be a site for rendering social justice visible in engineering for exploring complex socio technical interplays inherent in engineering practice and for enhancing teaching and learning Using social justice as a catalyst for curricular transformation Engineering Justice presents an examination of how politics culture and other social issues are inherent in the practice of engineering It aims to align engineering curricula with socially just outcomes increase enrollment among underrepresented groups and lessen lingering gender class and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities This book is meant to transform the way educators think about engineering curricula through creating or transforming existing courses to attract

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