
Electrical Machine Ashfaq Hussain

Electrical Power Systems

Power System Analysis: Operation And Control 3Rd Ed.

Power System Analysis

Fundamentals of Logic Design

Intelligent Computing Techniques for Smart Energy Systems

Principles of Power System

Numerical Modelling and Design of Electrical Machines and Devices

Electrical Machines - II

A Textbook of Strength of Materials

Technical Communication

Electrical Power Systems, 5e (PB)

Electrical Engineering Principles

Elasticity

Fundamentals of Electrical Engineering

Fundamentals of Electrical Engineering

Electric machinery fundamentals: Fourth edition

Witness to Blunder

Electronic Instrumentation
Utilisation of Electrical Power
Electric Machinery
Principles of Electrical Machines
Handbook of Electrical Design Details
(in S.I. Units)
Power System Protection and Switchgear
Programs for Machine Learning
Power System Analysis (With Disk)
How to Crack Test Of Reasoning- REVISED EDITION
Power Electronics
Transformers and Generators
An Integrated Course In Electrical Engineering (3rd Edition)
A Complete Solution Guide to Any Textbook
The Electrical Machines Problem Solver
Tribology in Machine Design
Analog Communication Systems
Proceedings of ICTSES 2018
Ubiquitous Intelligent Systems
Electrical and Electronics Measurements and Instrumentation

Theory, Applications, and Numerics Electrical Machines-I

Electrical Machine
Ashfaq Hussain

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Electrical Power Systems Tata McGraw-Hill Education

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

Power System Analysis: Operation And Control 3Rd Ed. Tata McGraw-Hill Education

This text provides an overview of numerical field computational methods and, in particular, of the finite element method (FEM) in magnetics. Detailed attention is paid to the practical use of the FEM in designing electromagnetic devices such as motors, transformers and actuators. Based on the authors' extensive experience of teaching numerical techniques to students and design engineers, the book is ideal for use as a text at undergraduate and graduate level, or as a primer for practising engineers who wish to learn

the fundamentals and immediately apply these to actual design problems.

Contents: Introduction; Computer Aided Design in Magnetics; Electromagnetic Fields; Potentials and Formulations; Field Computation and Numerical Techniques; Coupled Field Problems; Numerical Optimisation; Linear System Equation Solvers; Modelling of Electrostatic and Magnetic Devices; Examples of Computed Models.

Power System Analysis McGraw-Hill Education

With the advancement of technology in intergrated circuits, instruments are becoming increasingly compact and accurate. This revision covers in detail the digital and microprocessor-based instruments. The systematic discussion of their working principle, operation,

capabilities, and limitations will facilitate easy understanding of the instruments as well as guide the user select the right instrument for an application.

Fundamentals of Logic Design

Elsevier

Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of

electric machines and power engineering—and his world-renowned colleague Thad Roppel, *Fundamentals of Electrical Engineering* provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little

relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a

full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.

Intelligent Computing Techniques for Smart Energy Systems McGraw-Hill Higher Education

Electric Machines Tata McGraw-Hill Education
Fundamentals of Electrical Engineering Laxmi Publications, Ltd.
Electrical Power System Networks and Systems KHANNA PUBLISHING HOUSE

Principles of Power System Oxford University Press, USA

The text material has been restructured to provide a more balanced and exhaustive coverage of the subject. The text discusses the core concepts of technical communication and explains

them with the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD. With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for corporate training programmes.

Numerical Modelling and Design of Electrical Machines and Devices S. Chand Publishing

This book is a complete guide to the C4.5 system as implemented in C for the UNIX environment. It contains a comprehensive guide to the system's use, the source code (about 8,800 lines), and implementation notes.

Electrical Machines - II KHANNA PUBLISHING HOUSE

The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the synchronous generators (alternators), synchronous motors, three phase and single phase induction motors and various special machines. The book is structured to cover the key aspects of the course Electrical Machines - II. The book starts with the explanation of basics of synchronous generators including construction, winding details and e.m.f. equation. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the

feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The chapter on synchronous motor provides the detailed discussion of construction, working principle, behavior on load, analysis of phasor diagram, Vee and Inverted Vee curves, hunting and applications. The book further explains the three phase induction motors in detail. It includes the construction, working, effect of slip, torque equation, torque ratios, torque-slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance and applications. This chapter includes the discussion of induction generator and synchronous induction motor. The detailed discussion of circle diagram is

also included in the book. The book teaches the various starting methods, speed control methods and electrical braking methods of three phase induction motors. Finally, the book gives the explanation of various single phase induction motors and special machines such as reluctance motor, hysteresis motor, repulsion motor, servomotors and stepper motors. The discussion of magnetic levitation is also incorporated in the book. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The

book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

A Textbook of Strength of Materials

Tata McGraw-Hill Education

Reasoning enhances the logical thinking skills. It determines one's aptitude which is why many competitive examinations ask questions from it. Be it, banking, SSC, railway, IAS/PCS, or any other government recruitment exams, candidates have to score better in Reasoning Test which is a hard nut to crack for many. How to Crack Test of Reasoning is a perfect study resource to learn the problem solving skills of reasoning to make a proper preparation for the competitive examinations. It has been revised carefully according to the

latest examination pattern and is divided into key chapters of Verbal Reasoning, Analytical Reasoning, and Non-Verbal Reasoning. It facilitates a complete coverage of the theory followed by exercises graded into base level and expert level for self-evaluation. Each chapter covers the latest exam questions. Also, it carries more than 2500 objective questions as a whole to boost the preparation level. Written in an easy to read manner and incorporated with complete study material, it is an amazing book to climb the ladder of success in your forthcoming competitive exams. TOC Verbal Reasoning, Analytical Reasoning, Non-Verbal Reasoning Technical Communication McGraw Hill Professional
For over 15 years "Principles of Electrical

Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

Electrical Power Systems, 5e (PB) Tata McGraw-Hill Education

A COMPREHENSIVE SOURCE OF TECHNICAL DETAILS ON ELECTRICAL POWER FROM GENERATION TO PRACTICAL APPLICATIONS Reliable, low-

cost electric power is a fundamental requirement for modern society, making possible such vital services as lighting, HVAC, transportation, communication, and data processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople. This compact, user-friendly edition updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics: * CAD for preparing electrical drawings and estimates * Basic switch and

receptacle circuit wiring * Structured wiring for multimedia * Swimming pool and low-voltage lighting * Electrical surge protection An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize themselves with the latest advances--regardless of their formal education or training. Reader-helpful features in this edition include: * Up-front chapter summaries to save time in finding topics of interest. * References to related articles in the National Electrical Code. * A bibliography identifying additional sources for digging deeper. * Approximately 300 illustrations
Electrical Engineering Principles Springer
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.

Elasticity S. Chand Publishing

This comprehensive book is designed both for postgraduate students in power systems/energy systems engineering and a one-year course for senior undergraduate students of electrical

engineering pursuing courses on power systems. The text gives a systematic exposition of topics such as modelling of power system components, load flow, automatic load frequency control, economic operation, voltage control and stability, study of faulted power systems, and optimal power flow. Besides giving a detailed discussion on the basic principles and practices, the text provides computer-based examples to illustrate the topics discussed. What makes the text unique is that it deals with the practice of computer for power system operation and control. This book also brings together the diverse aspects of power system operation and control and is a practical hands-on guide to theoretical developments and to the application of advanced methods in

solving operational and control problems of electric power systems. The book should therefore be of immense benefit to the industry professionals and researchers as well.

Fundamentals of Electrical Engineering Arihant Publications India limited

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

Fundamentals of Electrical Engineering CRC Press

"With new examples and the incorporation of MATLAB problems, the fourth edition gives comprehensive coverage of topics not found in any other

texts." (Midwest).

Electric machinery fundamentals: Fourth edition Technical Publications

The importance of transformers and generators is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book. The chapter on three phase transformer

provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel operation of transformers, tap changing transformer, autotransformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of

armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding

of the concepts very clear and makes the subject more interesting.

Witness to Blunder Firewall Media

This book features a collection of high-quality, peer-reviewed papers presented at International Conference on Ubiquitous Intelligent Systems (ICUIS 2021) organized by Shree Venkateshwara Hi-Tech Engineering College, Tamil Nadu, India, during April 16–17, 2021. The book covers topics such as cloud computing, mobile computing and networks, embedded computing frameworks, modeling and analysis of ubiquitous information systems, communication networking models, big data models and applications, ubiquitous information processing systems, next-generation ubiquitous networks and protocols,

advanced intelligent systems, Internet of things, wireless communication and storage networks, intelligent information retrieval techniques, AI-based intelligent information visualization techniques, cognitive informatics, smart automation systems, healthcare informatics and bioinformatics models, security and privacy of intelligent information systems, and smart distributed information systems.

Electric Machines

Shows how algorithms developed from the basic principles of tribology can be used in a range of practical applications in mechanical devices and systems.

Includes: bearings, gears, seals, clutches, brakes, tyres.

Electronic Instrumentation New Age International

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government

organizations for funding approval.

Utilisation of Electrical Power Laxmi Publications

The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling,

parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric

braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test, retardation test and Hopkinson's test. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more

interesting.

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