

# Electrical Machine By Ashfaq Hussain 2 Edition

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*Electrical Machine By Ashfaq Hussain  
2 Edition*

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## ELENA WU

Kernel Methods for Pattern Analysis Electric Machines

This is a new edition of the standard air conditioning installation/service text, emphasizing energy conservation. It contains new material on heating and computer programs, and new load calculation problems. The book provides thorough coverage of the fundamentals of air conditioning, explains relationships of theory to design of new systems, and discusses troubleshooting of existing systems. Air conditioning and refrigeration equipment and systems, and refrigeration absorption systems and heat pumps are all covered. Computer programs for load estimating are also described, and there are many illustrative examples of real-world situations. The text is consistent with all ASHRAE load estimating guidelines.

**Networks and Systems** Technical Publications

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.

*Fundamentals of Electrical Engineering* McGraw Hill Professional Updated with modern coverage, a streamlined presentation, and an excellent companion CD, this sixth edition achieves yet again an unmatched balance between theory and application. Authors Charles H. Roth, Jr. and Larry L. Kinney carefully present the

theory that is necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory. Divided into 20 easy-to-grasp study units, the book covers such fundamental concepts as Boolean algebra, logic gates design, flip-flops, and state machines. By combining flip-flops with networks of logic gates, students will learn to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and the VHDL hardware description language.

*Electrical Machines - I* KHANNA PUBLISHING HOUSE

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.

*Fundamentals of Electrical Engineering* Tata McGraw-Hill Education

Although there are several books in print dealing with elasticity, many focus on specialized topics such as mathematical foundations, anisotropic materials, two-dimensional problems, thermoelasticity, non-linear theory, etc. As such they are not appropriate candidates for a general textbook. This book provides a concise and organized presentation and development of general theory of elasticity. This text is an excellent book teaching guide. Contains exercises for student engagement as well as the integration and use of MATLAB Software Provides development of common solution methodologies and a systematic review of analytical solutions useful in applications of Theory, Applications, and Numerics McGraw-Hill Education

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.

**Power System Protection and Switchgear** Cambridge University Press

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.

**Elasticity** Butterworth-Heinemann

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 Machines - II Laxmi Publications

This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter

developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

*Numerical Modelling and Design of Electrical Machines and Devices* Technical Publications

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.

*Power System Analysis: Operation And Control 3Rd Ed.* S. Chand Publishing

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

*Electric Machines (Sigma)* WIT Press

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.

Utilisation of Electrical Power Arihant Publications India limited  
Publisher Description

Electrical Power Sytems, 5e (PB) Laxmi Publications, Ltd.

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

Principles of Electrical Machines Oxford University Press, USA

A comprehensive, up-to-date and lucidly written book meeting with the long-felt need for a complete text for undergraduate and postgraduate courses. The book is mainly concerned with detailed analysis and design of converters, inverters and power control circuits using solid-state devices. It covers the various types of transformation of energy and discusses the circuits and equipment basic to most electronic devices in use today. With its wide coverage and detailed analysis, is an ideal text for undergraduate and postgraduate and students of electrical

engineering and electronics. It would also be highly useful to practicing engineers in the field of power control.

Analog Communication Systems John Wiley & Sons

This sigma Series book on Electric Machines deals with the fundamentals of the subject through problem solving technique and provides innumerable solved, unsolved problems along with review and objective type questions. Features Complete coverage of fundamentals of electrical machines. Emphasis is placed on the basic concepts, theorems, and problem-solving techniques. Each chapter begins with brief theoretical explanation needed for solving the related problems. 1640 problems given in the book.

**An Energy Approach** Technical Publications

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*  
KHANNA PUBLISHING HOUSE

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.

**Transformers and Generators** PHI Learning Pvt. Ltd.

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.

**A Textbook of Strength of Materials** Elsevier

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.