

# Ashfaq Husain Fundamentals Of Electrical Engineering

Principles of Electrical Machines  
 A TEXTBOOK OF ENGINEERING CHEMISTRY  
 Electric Machines  
 Modern Power System Analysis  
 Elasticity  
 Including Generation, Transmission, Distribution, Switchgear and Protection : for B.E/B.Tech., AMIE and Other Engineering Examinations  
 Basic Electrical and Electronics Engineering:  
 ELECTRIC MACHINES 4E  
 A Computer Based Approach  
 Digital Signal Processing  
 A Textbook Of Electrical Machines  
 Power System Engineering, 3e  
 Basic Electrical Engineering  
 Autodesk Official Press  
 Power System Protection and Switchgear  
 Fitzgerald & Kingsley's Electric Machinery  
 Fundamentals of Electrical Engineering  
 Electric Machines (Sigma)  
 Electrical Machines  
 Electrical Engineering Principles  
 Fundamentals of Electric Machines  
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 Design Fundamentals  
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 Basic Electrical Engineering

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## WU KAITLYN

**Principles of Electrical Machines** PHI Learning Pvt. Ltd.  
 Digital Signal Processing: A Computer-Based Approach is intended for a two-semester course on digital signal processing for seniors or first-year graduate students. Based on user feedback, a number of new topics have been added to the third edition, while some excess topics from the second edition have been removed. The author has taken great care to organize the chapters more logically by reordering the sections within chapters. More worked-out examples have also been included. The book contains more than 500 problems and 150 MATLAB exercises. New topics in the third edition include: short-time characterization of discrete-time signals, expanded coverage of discrete-time Fourier transform and discrete Fourier transform, prime factor algorithm for DFT computation, sliding DFT, zoom FFT, chirp Fourier transform, expanded coverage of z-transform, group delay equalization of IIR digital filters, design of computationally efficient FIR digital filters, semi-symbolic analysis of digital filter structures, spline interpolation, spectral factorization, discrete wavelet transform.  
**A TEXTBOOK OF ENGINEERING CHEMISTRY** CRC Press  
 Offers an entertaining introduction to the physics of electricity.  
**Electric Machines** Tata McGraw-Hill Education  
 Offers key concepts of electrical machines embedded with solved examples, review questions, illustrations and open book questions.  
**Modern Power System Analysis** 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  
**Elasticity** Tata McGraw-Hill Education  
 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.  
*Including Generation, Transmission, Distribution, Switchgear and Protection : for B.E/B.Tech., AMIE and Other Engineering Examinations* John Wiley & Sons  
 Overview: This new edition provides an excellent foundation to the theory of electromechanical devices with emphasis on rotating electric machines. The theory and applications of various machines are treated at appropriate places in the book. a number of solved examples and practice problems along with MATLAB examples are given in the book to facilitate problem solving skills.  
 Features: □ New chapter on 'Generalized Theory of Electric Machines' □ Exhaustive treatment of rotating electric machines in easy language. □ Detailed description of Transformers, DC Machines, Induction Machines and Synchronous Machines. □ Enhanced coverage of Permanent Magnet Materials and their applications.  
**Basic Electrical and Electronics Engineering:** Tata 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.  
**ELECTRIC MACHINES 4E** McGraw-Hill Higher Education  
 This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. KEY FEATURES : Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their

knowledge.  
**A Computer Based Approach** Tata McGraw-Hill Education  
 A thoroughly revised third edition of this widely praised, bestselling textbook presents a comprehensive systems-level perspective of electric and hybrid vehicles with emphasis on technical aspects, mathematical relationships and basic design guidelines. The emerging technologies of electric vehicles require the dedication of current and future engineers, so the target audience for the book is the young professionals and students in engineering eager to learn about the area. The book is concise and clear, its mathematics are kept to a necessary minimum and it contains a well-balanced set of contents of the complex technology. Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles. Additions in the third edition include simulation-based design analysis of electric and hybrid vehicles and their powertrain components, particularly that of traction inverters, electric machines and motor drives. The technology trends to incorporate wide bandgap power electronics and reduced rare-earth permanent magnet electric machines in the powertrain components have been highlighted. Charging stations are a critical component for the electric vehicle infrastructure, and hence, a chapter on vehicle interactions with the power grid has been added. Autonomous driving is another emerging technology, and a chapter is included describing the autonomous driving system architecture and the hardware and software needs for such systems. The platform has been set in this book for system-level simulations to develop models using various softwares used in academia and industry, such as MATLAB®/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are provided in this edition using these software tools. The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally sensitive world.  
**Digital Signal Processing** Tata McGraw-Hill Education  
 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.  
**A Textbook Of Electrical Machines** Cambridge University Press  
 Analog Communication Systems  
 Electrical Engineering

Principles Fundamentals of Electrical Engineering Laxmi Publications, Ltd. Networks and Systems KHANNA PUBLISHING HOUSE

**Power System Engineering, 3e** Prentice Hall

This seventh edition of Fitzgerald and Kingsley's *Electric Machinery* by Stephen Umans was developed recognizing the strength of this classic text since its first edition has been the emphasis on building an understanding of the fundamental physical principles underlying the performance of electric machines. Much has changed since the publication of the first edition, yet the basic physical principles remain the same, and this seventh edition is intended to retain the focus on these principles in the context of today's technology.

*Basic Electrical Engineering* KHANNA PUBLISHING HOUSE

A textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

*Autodesk Official Press* Pearson Education India

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 Protection and Switchgear** Springer Science & Business Media

This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subjects in their curriculum.

The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

*Fitzgerald & Kingsley's Electric Machinery* S. Chand Publishing  
The Autodesk-endorsed guide to real-world Revit Architecture mastery *Mastering Autodesk Revit Architecture 2016* provides focused discussions, detailed exercises, and compelling, real-world examples to help you get the most out of the Revit Architecture 2016 software. Information is organized to reflect the way you learn and implement Revit, featuring real-world workflows, in-depth explanations, and practical tutorials that help you understand Revit and BIM concepts so you can quickly start accomplishing vital tasks. The thorough coverage makes this book an ideal study guide for those preparing for Autodesk's certification exam. The companion website features before-and-after tutorials, additional advanced content, and video on crucial techniques to help you quickly master important tasks. This comprehensive guide walks you through the software to help you begin designing quickly. Understand basic BIM concepts and the Revit interface. Explore templates, work-sharing, and project management workflows. Learn modeling, massing, and visualization techniques for other industries. Work with complex structures, annotation, detailing, and much more. To master what is quickly becoming an essential industry tool, *Mastering Revit Architecture 2016* is your ultimate practical companion.  
*Fundamentals of Electrical Engineering* S. Chand Publishing  
Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics.

*Electric Machines (Sigma)* New Age International

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.

*Electrical Machines* CRC Press

Attuned to the needs of undergraduate students of engineering in their first year, *Basic Electrical Engineering* enables them to build a strong foundation in the subject. A large number of real-world examples illustrate the applications of complex theories. The book comprehensively covers all the areas taught in a one-semester course and serves as an ideal study material on the subject.

*Electrical Engineering Principles* Tata McGraw-Hill Education

This is a single-volume book on 'electrical machines' that teaches the subject precisely and yet with amazing clarity. The extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters. Thus, they will not have to consult multiple books anymore. The discussions of concepts include the modern trends used in industry, like efficient transformers, efficient induction motors, DC drives, and the problems related to them.

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