

Electrical Power System Ashfaq Hussain

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Electronic Devices And Circuits - J. B. Gupta 2009

Power System Engineering - Dwarkadas Pralhaddas Kothari 2019

Power Electronics: Circuits, Devices, and Application (for Anna University) - Muhammad H. Rashid 2011

Electrical Power Systems - C. L. Wadhwa 2009

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.

Building Construction Handbook - Roy Chudley 2016-04-14

Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Fundamentals of Electrical Engineering - Dr. Yaduvir Singh 2010-02

Power System Analysis - Hadi Saadat 2009-04-01

This is an introduction to power system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK throughout.

Electrical Engineering Principles - Ashfaq Husain 1987

Non-conventional Energy Resources - S. Hasan Saeed 2006

Power Semiconductor Controlled Drives - G. K. Dubey 1989

A study of power semiconductor controlled drives that contain dc, induction and synchronous motors. Discusses the dynamics of motor and load systems; open and closed-loop drives; and thyristor, power transistor, and GTO

converters. Also reviews arc drives, brushless and commutatorless dc drives, and rectifier controlled dc drives. Annotation copyrighted by Book News, Inc., Portland, OR

A Course In Power Systems - J. B. Gupta 2009

Networks and Systems - Ashfaq Husain 2015

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.

Electrical Power System - Ashfaq Husain 1982

Power System Analysis - John Grainger 1994

This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

Electrical Power Systems, 5e (PB) - Ashfaq Husain 2009-02-01

Electric and Hybrid Vehicles - Iqbal Husain 2021-02-22

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.

Principles of Power System - VK Mehta & Rohit Mehta 2005
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.

Electrical Power System Essentials - Pieter Schavemaker
2017-08-07

The electrical power supply is about to change; future generation will increasingly take place in and near local neighborhoods with diminishing reliance on distant power plants. The existing grid is not adapted for this purpose as it is largely a remnant from the 20th century. Can the grid be transformed into an intelligent and flexible grid that is future proof? This revised edition of *Electrical Power System Essentials* contains not only an accessible, broad and up-to-date overview of alternating current (AC) power systems, but also end-of-chapter exercises in every chapter, aiding readers in their understanding of the material introduced. With an original approach the book covers the generation of electric energy from thermal power plants as from renewable energy sources and treats the incorporation of power electronic devices and FACTS. Throughout there are examples and case studies that back up the theory or techniques presented. The authors set out information on mathematical modelling and equations in appendices rather than integrated in the main text. This unique approach distinguishes it from other text books on *Electrical Power Systems* and makes the resource highly accessible for undergraduate students and readers without a technical background directly related to power engineering. After laying out the basics for a steady-state analysis of the three-phase power system, the book examines: generation, transmission, distribution, and utilization of electric energy wind energy, solar energy and hydro power power system protection and circuit breakers power system control and operation the organization of electricity markets and the changes currently taking place system blackouts future developments in power systems, HVDC connections and smart grids The book is supplemented by a companion website from which teaching materials can be downloaded. <https://www.wiley.com//legacy/wileychi/powersystem/material.html>

Principles of Electrical Machines - VK Mehta | Rohit Mehta 2008

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.

Power Electronics - Joseph Vithayathil 1995

This text provides an introduction to the field of power electronics, emphasizing real-world applications. It covers topics such as: power quality and vector control; power semiconductor devices; multiphase choppers and PWM inverters; and adjustable speed AC and DC motor drives.

Power System Analysis: Operation And Control - Abhijit Chakrabarti 2006-06

Reconciliation - Benazir Bhutto 2009-10-13

"It is impossible to understand today's world without knowing Pakistan; and impossible to understand Pakistan without reading this book. A courageous woman—tragically killed—speaks to us of reconciliation. We owe it to her—and to ourselves—to listen, comprehend, and act." – Madeleine Albright "One of the most gripping and important books of our era." – Walter Isaacson Benazir Bhutto returned to Pakistan in October 2007, after eight years of exile, hopeful that she could be a catalyst for change. Upon a tumultuous reception, she survived a suicide-bomb attack that killed nearly two hundred of her compatriots. But she continued to forge ahead, with more courage and conviction than ever, since she knew that time was running out—for the future of her nation and for her life. In *Reconciliation*, Bhutto recounts in gripping detail her final months in Pakistan and offers a bold new agenda for how to stem the tide of Islamic radicalism and to rediscover the values of tolerance and justice that lie at the heart of her religion. She speaks out not just to the West but also to the Muslims across the globe. Bhutto presents an image of modern Islam that defies the negative caricatures often seen in the West. After reading this book, it will become even clearer what the world has lost by her assassination
Control Systems (As Per Latest Jntu Syllabus) - I. J. Nagrath 2009

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

A Textbook of Electrical Technology - Volume IV - BL Theraja 2006

A Textbook of Electrical Technology(Vol. IV)Multicolorpictures have been added to enhance the content value and give to the students an idea of what he will be dealing in realityand to bridge the gap between theory and practice.A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject.Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

Comprehensive Dictionary of Electrical Engineering - Phillip A. Laplante 1999-01-01

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.

Electrical Power Systems - Ashfaq Husain 1994

Basic Electrical Engineering - Mehta V.K. & Mehta Rohit 2008

For close to 30 years, "Basic Electrical Engineering" has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Transformers and Generators - Uday A. Bakshi 2020-11-01

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.

Modern Power System Analysis - D. P. Kothari 2011

Network Analysis & Synthesis (Including Linear System Analysis) - C. L. Wadhwa 2007

This Book Has Been Designed As A Basic Text For Undergraduate Students Of Electrical, Electronics And Communication And Computer Engineering. In A Systematic And Friendly Manner, The Book Explains Not Only The Fundamental Concepts Like Circuit Elements, Kirchhoff S Laws, Network Equations And Resonance, But Also The Relatively Advanced Topics Like State Variable Analysis, Modern Filters, Active Rc Filters And Sensitivity Considerations. Salient Features * Basic Circuit Elements, Time And Periodic Signals And Different Types Of Systems Defined And Explained. * Network Reduction Techniques And Source Transformation Discussed. * Network Theorems Explained Using Typical Examples. * Solution Of Networks Using Graph Theory Discussed. * Analysis Of First Order, Second Order Circuits And A Perfect Transform Using Differential Equations Discussed. * Theory And Application Of Fourier And Laplace Transforms Discussed In Detail. * Interconnections Of Two-Port Networks And Their Performance In Terms Of Their Poles And Zeros Emphasised. * Both Foster And Cauer Forms Of Realisation Explained In Network Synthesis. * Classical And Modern Filter Theory Explained. * Z-Transform For Discrete Systems Explained. * Analogous Systems And Spice Discussed. * Numerous Solved Examples And Practice Problems For A Thorough Graph Of The Subject. * A Huge Question Bank Of Multiple Choice Questions With Answers Exhaustively Covering The Topics Discussed. With All These Features, The Book Would Be Extremely Useful Not Only For Undergraduate Engineering Students But Also For Amie And Gate Candidates And Practising Engineers.

Electrical Power System - Ashfaq Husain 1982

Principles Of Electrical Engineering And Electronics - V. K. Mehta 1998

Intelligent Vehicular Networks and Communications - Anand Paul 2016-09-02

Intelligent Vehicular Network and Communications: Fundamentals, Architectures and Solutions begins with discussions on how the transportation system has transformed into today's Intelligent Transportation System (ITS). It explores the design goals, challenges, and frameworks for modeling an ITS network, discussing vehicular network model technologies, mobility management architectures, and routing mechanisms and protocols. It looks at the Internet of Vehicles, the vehicular cloud, and vehicular network security and privacy issues. The book investigates cooperative vehicular systems, a promising solution for addressing current and future traffic safety needs, also exploring cooperative cognitive intelligence, with special attention to spectral efficiency, spectral scarcity, and high mobility. In addition, users will find a thorough examination of experimental work in such areas as Controller Area Network protocol and working function of On Board Unit, as well as working principles of roadside unit and other infrastructural nodes. Finally, the book examines big data in vehicular networks, exploring various business models, application scenarios, and real-time analytics, concluding with a look at autonomous vehicles. Proposes cooperative, cognitive, intelligent vehicular networks Examines how intelligent transportation systems make more efficient transportation in urban environments Outlines next generation vehicular networks technology

Fundamentals of Power System Protection - Paithankar Y. G. 2010

Classical and Quantum Dynamics in Condensed Phase Simulations - Bruce J Berne 1998-06-17

The school held at Villa Marigola, Lerici, Italy, in July 1997 was very much an educational experiment aimed not just at teaching a new generation of students the latest developments in computer simulation methods and theory, but also at bringing together researchers from the condensed matter computer simulation community, the biophysical chemistry community and the quantum dynamics community to confront the shared problem: the development of methods to treat the dynamics of quantum condensed phase systems. This volume collects the lectures delivered there. Due to the focus of the school, the contributions divide along natural lines into two broad groups: (1) the most sophisticated forms of the art of computer simulation, including biased phase space sampling schemes, methods which address the multiplicity of time scales in condensed phase problems, and static equilibrium methods for treating quantum systems; (2) the contributions on quantum dynamics, including methods for mixing quantum and classical dynamics in condensed phase simulations and methods capable of treating all degrees of freedom quantum-mechanically. Contents: Barrier Crossing: Classical Theory of Rare but Important Events (D Chandler) Monte Carlo Simulations (D Frenkel) Molecular Dynamics Methods for the Enhanced Sampling of Phase Space (B J Berne) Constrained and Nonequilibrium Molecular Dynamics (G Ciccotti & M Ferrario) From Eyring to Kramers: Computation of Diffusive Barrier Crossing Rates (M J Ruiz-Montero) Monte Carlo Methods for Sampling of Rare Event States (W Janke) Proton Transfer in Ice (D Marx) Nudged Elastic Band Method for Finding Minimum Energy Paths of Transitions (H Jónsson et al.) RAW Quantum Transition State Theory (G Mills et al.) Dynamics of Peptide Folding (R Elber et al.) Theoretical Studies of Activated Processes in Biological Ion Channels (B Roux & S Crouzy) The Semiclassical Initial Value Representation for Including Quantum Effects in Molecular Dynamics Simulations (W H Miller) Tunneling in the Condensed Phase: Barrier Crossing and Dynamical Control (N Makri) Feynman Path Centroid Methods for Condensed Phase Quantum Dynamics (G A Voth) Quantum Molecular Dynamics Using Wigner Representation (V S

Filinov et al.) Nonadiabatic Molecular Dynamics Methods for Diffusion (D Laria et al.) and other papers
Readership: Computational and statistical physicists.
Keywords: Quantum; Molecular Dynamics; Dynamics
Reviews: "... this volume is a useful introduction to currently popular, and widely-used techniques in chemical and statistical physics. The authors are well-respected researchers in the field and the level is appropriate to graduate students and researchers." Journal of Statistical Physics

Digital Signal Processing - Sanjit Kumar Mitra 2006-01
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.

Generation, Distribution and Utilization of Electrical Energy - C. L. Wadhwa 1989

PPI FE Electrical and Computer Review Manual – Comprehensive FE Book for the FE Electrical and Computer Exam - Michael R. Lindeburg 2015-04-13

Michael R. Lindeburg PE's FE Electrical and Computer Review Manual offers complete coverage of the Electrical and Computer FE exam knowledge areas and the relevant elements—equations, figures, and tables—from the NCEES FE Reference Handbook. With 15 mini-exams to assess your grasp of the exam's knowledge areas, and concise explanations of thousands of equations and hundreds of figures and tables, the Review Manual contains everything you need to succeed on the Electrical and Computer FE exam. The Review Manual organizes the Handbook elements logically, grouping related concepts. All Handbook elements are featured in blue boxes for easy identification, familiarizing you with the only reference you will have on exam day. Equations and their associated variations and values are clearly presented. Descriptions are succinct and supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. Thousands of terms are indexed to facilitate cross-referencing. Use the Review Manual in your FE Electrical and Computer exam preparation and get the power to pass the first time—guaranteed. Electrical and Computer Engineering Topics Covered Circuit Analysis and Linear Systems Communications and Signal Processing Computer Networks and Systems Control Systems Digital Systems Electromagnetics Electronics Engineering Economics Engineering Sciences Ethics and Professional Practice Mathematics Power Probability and Statistics Properties of Electrical Materials Software Development
Key Features: Complete coverage of all exam knowledge areas. Equations, figures, and tables from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day. Concise explanations supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. A robust index with thousands of terms to facilitate referencing. Binding: Paperback

About the Publisher: PPI, A Kaplan Company has been trusted by engineering exam candidates since 1975.
Recent Trends in Engineering and Technology (NCRTE-2017) - Bijoy Kumar Upadhyaya 2018-03-05
After successful organization of the "National Seminar on Energy Science and Engineering, 2013 (NSESE-2013)" during November, 2013, Tripura Institute of Technology, Narsingarh, Tripura (West) has organized the second "National Conference on Recent Trends in Engineering and Technology, 2017 (NCRTE-2017)" during March 17-18, 2017. The seminar aimed to provide an opportunity for academicians and researchers in India to discuss the divergent issues related to recent trends in engineering and technology covering all aspects on one platform so as to critically examine the ongoing/current research and derive directions for future research strategies and policy implications. As a mark of remembrance, a souvenir was published on this occasion. The conference has received enormous response in the form of technical papers and research contributions from various authors across the country. In total, 55 numbers of technical papers related to different engineering domain were accepted for oral presentation. Four invited papers from renowned faculty members of our country were also presented on the occasion. We are also happy to keep our commitment of publishing a conference proceeding with ISBN through a prestigious publisher having all accepted full length papers.

POWER SYSTEM OPTIMIZATION - D. P. KOTHARI 2010-09-25
Power System Optimization is intended to introduce the methods of multi-objective optimization in integrated electric power system operation, covering economic, environmental, security and risk aspects as well. Evolutionary algorithms which mimic natural evolutionary principles to constitute random search and optimization procedures are appended in this new edition to solve generation scheduling problems. Written in a student-friendly style, the book provides simple and understandable basic computational concepts and algorithms used in generation scheduling so that the readers can develop their own programs in any high-level programming language. This clear, logical overview of generation scheduling in electric power systems permits both students and power engineers to understand and apply optimization on a dependable basis. The book is particularly easy-to-use with sound and consistent terminology and perspective throughout. This edition presents systematic coverage of local and global optimization techniques such as binary- and real-coded genetic algorithms, evolutionary algorithms, particle swarm optimization and differential evolutionary algorithms. The economic dispatch problem presented, considers higher-order nonlinearities and discontinuities in input-output characteristics in fossil fuel burning plants due to valve-point loading, ramp-rate limits and prohibited operating zones. Search optimization techniques presented are those which participate efficiently in decision making to solve the multiobjective optimization problems. Stochastic optimal generation scheduling is also updated in the new edition. Generalized Z-bus distribution factors (GZBDF) are presented to compute the active and reactive power flow on transmission lines. The interactive decision making methodology based on fuzzy set theory, in order to determine the optimal generation allocation to committed generating units, is also discussed. This book is intended to meet the needs of a diverse range of groups interested in the application of optimization techniques to power system operation. It requires only an elementary knowledge of numerical techniques and matrix operation to understand most of the topics. It is designed to serve as a textbook for postgraduate electrical engineering students, as well as a reference for faculty, researchers, and power engineers interested in the use of optimization as a tool for reliable and

secure economic operation of power systems. Key Features
The book discusses : Load flow techniques and economic
dispatch—both classical and rigorous Economic dispatch
considering valve-point loading, ramp-rate limits and
prohibited operating zones Real coded genetic algorithms
for economic dispatch Evolutionary programming for
economic dispatch Particle swarm optimization for
economic dispatch Differential evolutionary algorithm
for economic dispatch Stochastic multiobjective thermal
power dispatch with security Generalized Z-bus
distribution factors to compute line flow Stochastic
multiobjective hydrothermal generation scheduling
Multiobjective thermal power dispatch using artificial
neural networks Fuzzy multiobjective generation
scheduling Multiobjective generation scheduling by
searching weight pattern