

Elements Of Power System Analysis

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Elements of Power System Analysis

Elements of Power System Analysis McGraw-Hill Companies

Elements of Power System Analysis

Power System Analysis McGraw-Hill Science Engineering

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.

Elements of Power Systems CRC Press

Elements of Power Systems prepares students for engineering degrees, diplomas, Associate Member of the Institution of Engineers (AMIE) examinations, or corresponding examinations in electrical power systems. Complete with case studies, worked examples, and circuit schematic diagrams, this comprehensive text:Provides a solid understanding of the the

Power Systems Analysis Butterworth-Heinemann

Power Systems Analysis, Second Edition, describes the operation of the interconnected power system under steady state conditions and under dynamic operating conditions during disturbances. Written at a foundational level, including numerous worked examples of concepts discussed in the text, it provides an understanding of how to keep power flowing through an interconnected grid. The second edition adds more information on power system stability, excitation system, and small disturbance analysis, as well as discussions related to grid integration of renewable power sources. The book is designed to be used as reference, review, or self-study for practitioners and consultants, or for students from related engineering disciplines that need to learn more about power systems. Includes comprehensive coverage of the analysis of power systems, useful as a one-stop resource Features a large number of worked examples and objective questions (with answers) to help apply the material discussed in the book Offers foundational content that provides background and review for the understanding and analysis of more specialized areas of electric power engineering

Power System Analysis and Design Cengage Learning

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modern Power System Analysis CRC Press

Most textbooks that deal with the power analysis of electrical engineering power systems focus on generation or distribution systems. Filling a gap in the literature, Modern Power System Analysis, Second Edition introduces readers to electric power systems, with an emphasis on key topics in modern power transmission engineering. Throughout, the boo

ELECTRICAL POWER SYSTEMS PHI Learning Pvt. Ltd.

This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring

of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation.

Elements of Power Systems *CRC Press*

Elements of Power Systems prepares students for engineering degrees, diplomas, Associate Member of the Institution of Engineers (AMIE) examinations, or corresponding examinations in electrical power systems. Complete with case studies, worked examples, and circuit schematic diagrams, this comprehensive text: Provides a solid understanding of the theoretical aspects of power system engineering Instills a practical knowledge of large-scale power system analysis techniques Covers load characteristics, tariffs, power system stability, and more Elements of Power Systems is designed as an undergraduate-level textbook, but the book also makes a handy reference for practicing power engineers.

Computer-Aided Power Systems Analysis *CRC Press*

Computer applications yield more insight into system behavior than is possible by using hand calculations on system elements. Computer-Aided Power Systems Analysis: Second Edition is a state-of-the-art presentation of basic principles and software for power systems in steady-state operation. Originally published in 1985, this revised edition explores power systems from the point of view of the central control facility. It covers the elements of transmission networks, bus reference frame, network fault and contingency calculations, power flow on transmission networks, generator base power setting, and state estimation from on-line measurements. The author develops methods used for full-scale networks. In the process of coding and execution, the user learns how the methods apply to actual networks, develops an understanding of the algorithms, and becomes familiar with the process of varying the parameters of the program. Intended for users with a background that includes AC circuit theory, some basic control theory, and a first course in electronic machinery, this book contains material based upon the author's experience both in the field and in the classroom, as well as many Institute of Electrical and Electronic Engineers (IEEE) publications. His mathematical approach and complete explanations allow readers to develop a solid foundation in power systems analysis. This second edition includes a CD-ROM with stand-alone software to perform computations of all principles covered in the chapters. Executable programs include 0,1,2 conversions, double-hung shielded transmission line parameters, zero and positive bus impedance computations for unbalanced faults, power flow, unit commitment, and state estimation.

Power Systems Analysis *Pearson Education India*

Computer Techniques and Models in Power Systems *I. K. International Pvt Ltd*

The book deals with the application of digital computers for power system analysis including fault analysis, load flows, stability assessment, economic operation and power system control. The book also covers extensively modeling of various power system components. The required mathematical background is presented at the appropriate sections in the book. A sincere attempt has been made to include a number of solved examples in every chapter, so that the students get an insight into the problems in practical power systems. Results from simulation are presented wherever applicable. The simulations have been carried out in MATLAB. The book covers more than a semester course. It can be used for UG courses on Power System Analysis, Computer applications in power system analysis, modeling of power system components, power system operation and control. It is also useful to postgraduate students of power engineering.

Power System Analysis: Power System Analysis

The second edition of Power System Analysis serves as a basic text for undergraduate students of electrical engineering. It provides a thorough understanding of the basic principles and techniques of power system analysis as well as their application to real-world problems.

Advanced Power System Analysis and Dynamics *New Age International*

Power System Analysis *Tata McGraw-Hill Education*

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.

Power System Analysis *John Wiley & Sons*

Provides a basic comprehensive treatment of the major electrical engineering problems associated with the design and operation of electric power systems. The major components of the power system are modeled in terms of their sequence (symmetrical component) equivalent circuits. Reviews power flow, fault analysis, economic dispatch, and transient stability in power systems.

Hydraulic Power System Analysis *CRC Press*

The excitement and the glitz of mechatronics has shifted the engineering community's attention away from fluid power systems in recent years. However, fluid power still remains advantageous in many applications compared to electrical or mechanical power transmission methods. Designers are left with few practical resources to help in the design and

Modern Power Systems Analysis *Springer Science & Business Media*

The capability of effectively analyzing complex systems is fundamental to the operation, management and planning of power systems. This book offers broad coverage of essential power system concepts and features a complete and in-depth account of all the latest developments, including Power Flow Analysis in Market Environment; Power Flow Calculation of AC/DC Interconnected Systems and Power Flow Control and Calculation for Systems Having FACTS Devices and recent results in system stability.

Power System Analysis: Operation And Control 3Rd Ed. *PHI Learning Pvt. Ltd.*

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 Power System Essentials *John Wiley & Sons*

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>

Power System *S. Chand Publishing*

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country.n the revised edition some new topics have been added.Additional solved examples have also been added.The data of transmission system in India has been updated.

Principles of Power Engineering Analysis *CRC Press*

Principles of Power Engineering Analysis presents the basic tools required to understand the components in an electric power transmission system. Classroom-tested at Rensselaer Polytechnic Institute, this text is the only up-to-date one available that covers power system analysis at the graduate level.The book explains from first principles the exp

Decision Making Applications in Modern Power Systems *Academic Press*

Decision Making Applications in Modern Power Systems presents an enhanced decision-making framework for power systems. Designed as an introduction to enhanced electricity system analysis using decision-making tools, it provides an overview of the different elements, levels and actors involved within an integrated framework for decision-making in the power sector. In addition, it presents a state-of-play on current energy systems, strategies, alternatives, viewpoints and priorities in support of decision-making in the electric power sector, including discussions of energy storage and smart grids. As a practical training guide on theoretical developments and the application of advanced methods for practical electrical energy engineering problems, this reference is ideal for use in establishing medium-term and long-term strategic plans for the electric power and energy sectors. Provides panoramic coverage of state-of-the-art energy systems, strategies and priorities in support of electrical power decision-making Introduces innovative research outcomes, programs, algorithms and approaches to address challenges in understanding, creating and managing complex techno-socio-economic engineering systems Includes practical training on theoretical developments and the application of advanced methods for realistic electrical energy engineering problems

Advanced Power System Analysis and Dynamics *New Age International*

This Book Is A Result Of Teaching Courses In The Areas Of Computer Methods In Power Systems, Digital Simulation Of Power Systems, Power System Dynamics And Advanced Protective Relaying To The Undergraduate And Graduate Students In Electrical Engineering At I.I.T., Kanpur For A Number Of Years And Guiding Several Ph.D. And M.Tech. Thesis And B.Tech. Projects By The Author. The Contents Of The Book Are Also Tested In Several Industrial And Qip Sponsored Courses Conducted By The Author As A Coordinator. The Present Edition Includes A Sub-Section On Solution Procedure

To Include Transmission Losses Using Dynamic Programming In The Chapter On Economic Load Scheduling Of Power System. In This Edition An Additional Chapter On Load Forecasting Has Also Been Included. The Present Book Deals With Almost All The Aspects Of Modern Power System Analysis Such As Network Equations And Its Formulations, Graph Theory, Symmetries Inherent In Power System Components And Its Formulations, Graph Theory, Symmetries Inherent In Power System Components And Development Of Transformation Matrices Based Solely Upon Symmetries, Feasibility Analysis And Modeling Of Multi-Phase Systems, Power System Modeling Including Detailed Analysis Of Synchronous Machines, Induction Machines And Composite Loads, Sparsity Techniques, Economic Operation Of Power Systems Including Derivation Of Transmission Loss Equation From The Fundamental, Solution Of Algebraic And Differential Equations And Power System Studies Such As Load Flow, Fault Analysis And Transient Stability Studies Of A Large Scale Power System Including Modern And Related Topics Such As Advanced Protective Relaying, Digital Protection And Load Forecasting. The Book Contains Solved Examples In These Areas And Also Flow Diagrams Which Will Help On One Hand To Understand The Theory And On The Other Hand, It Will Help The Simulation Of Large Scale Power Systems On The Digital Computer. The Book Will Be Easy To Read And Understand And Will Be Useful To Both Undergraduate And Graduate Students In Electrical Engineering As Well As To The Engineers Working In Electricity Boards And Utilities Etc.

Electric Power Systems *Wiley-IEEE Press*

Foreword. Preface. Acknowledgments. 1. Introduction to the Problems of Analysis and Control of Electric Power Systems. 2. Configuration and Working Point. 3. Frequency and Active Power Control. 4. Dynamic Behavior of the Synchronous Machine. 5. Dynamic Behavior of Network Elements and Loads. 6. Voltage and Reactive Power Control. 7. The Synchronous Machine Connected to an Infinite Bus. 8. Electromechanical Phenomena in a Multimachine System. Appendix 1: Transformation to Symmetrical Components. Appendix 2: Park's Transformation. Appendix 3: Elementary Outline of the Automatic Control Theory. References. Index. About the Author.

Affine Arithmetic-Based Methods for Uncertain Power System Analysis *Elsevier*

Affine Arithmetic-Based Methods for Uncertain Power System Analysis presents the unique properties and representative applications of Affine Arithmetic in power systems analysis, particularly as they are deployed for reliability optimization. The work provides a comprehensive foundation in Affine Arithmetic necessary to understand the central computing paradigms that can be adopted for uncertain power flow and optimal power flow analyses. These paradigms are adapted and applied to case studies, which integrate benchmark test systems and full step-by-step procedure for implementation so that readers are able to replicate and modify. The work is presented with illustrative numerical examples and MATLAB computations. Provides a uniquely comprehensive review of affine arithmetic in both its core theoretical underpinnings and their developed applications to power system analysis Details the exemplary benefits derived by the deployment of affine arithmetic methods for uncertainty handling in decision-making processes Clarifies arithmetical complexity and eases the understanding of illustrative methodologies for researchers in both power system and decision-making fields

Power System Analysis *McGraw-Hill*

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 Power Systems *Butterworth-Heinemann*

Electrical Power Systems provides comprehensive, foundational content for a wide range of topics in power system operation and control. With the growing importance of grid integration of renewables and the interest in smart grid technologies it is more important than ever to understand the fundamentals that underpin electrical power systems. The book includes a large number of worked examples, and questions with answers, and emphasizes design aspects of some key electrical components like cables and breakers. The book is designed to be used as reference, review, or self-study for practitioners and consultants, or for students from related engineering disciplines that need to learn more about electrical power systems. Provides comprehensive coverage of all areas of the electrical power system, useful as a one-stop resource Includes a large number of worked examples and objective questions (with answers) to help apply the material discussed in the book Features foundational content that provides background and review for further study/analysis of more specialized areas of electric power engineering

Power System Modeling, Computation, and Control *John Wiley & Sons*

Provides students with an understanding of the modeling and practice in power system stability analysis and control design, as well as the computational tools used by commercial vendors Bringing together wind, FACTS, HVDC, and several other modern elements, this book gives readers everything they need to know about power systems. It makes learning complex power system concepts, models, and dynamics simpler and more efficient while providing modern viewpoints of power system analysis. Power System Modeling, Computation, and Control provides students with a new and detailed analysis of voltage stability; a simple example illustrating the BCU method of transient stability analysis; and one of only a few derivations of the transient synchronous machine model. It offers a discussion on reactive power consumption of induction motors during start-up to illustrate the low-voltage phenomenon observed in urban load centers. Damping controller designs using power system stabilizer, HVDC systems, static var compensator, and thyristor-controlled series compensation are also examined. In addition, there are chapters covering flexible AC transmission Systems (FACTS)—including both thyristor and voltage-sourced converter technology—and wind turbine generation and modeling. Simplifies the learning of complex power system concepts, models, and dynamics Provides chapters on power flow solution, voltage stability, simulation methods, transient stability, small signal stability, synchronous machine models (steady-state and dynamic models), excitation systems, and power system stabilizer design Includes advanced analysis of voltage stability, voltage recovery during motor starts, FACTS and their operation,

damping control design using various control equipment, wind turbine models, and control Contains numerous examples, tables, figures of block diagrams, MATLAB plots, and problems involving real systems Written by experienced educators whose previous books and papers are used extensively by the international scientific community Power System Modeling, Computation, and Control is an ideal textbook for graduate students of the subject, as well as for power system engineers and control design professionals.

PowerFactory Applications for Power System Analysis *Springer*

This book presents a comprehensive set of guidelines and applications of DIgSILENT PowerFactory, an advanced power system simulation software package, for different types of power systems studies. Written by specialists in the field, it combines expertise and years of experience in the use of DIgSILENT PowerFactory with a deep understanding of power systems analysis. These complementary approaches therefore provide a fresh perspective on how to model, simulate and analyse power systems. It presents methodological approaches for modelling of system components, including both classical and non-conventional devices used in generation, transmission and distribution systems, discussing relevant assumptions and implications on performance assessment. This background is complemented with several guidelines for advanced use of DSL and DPL languages as well as for interfacing with other software packages, which is of great value for creating and performing different types of steady-state and dynamic performance simulation analysis. All employed test case studies are provided as supporting material to the reader to ease recreation of all examples presented in the book as well as to facilitate their use in other cases related to planning and operation studies. Providing an invaluable resource for the formal instruction of power system undergraduate/postgraduate students, this book is also a useful reference for engineers working in power system operation and planning.

Springer Handbook of Power Systems *Springer Nature*

This handbook offers a comprehensive source for electrical power professionals. It covers all elementary topics related to the design, development, operation and management of power systems, and provides an insight from worldwide key players in the electrical power systems industry. Edited by a renowned leader and expert in Power Systems, the book highlights international professionals' longstanding experiences and addresses the requirements of practitioners but also of newcomers in this field in finding a solution for their problems. The structure of the book follows the physical structure of the power system from the fundamentals through components and equipment to the overall system. In addition the handbook covers certain horizontal matters, for example "Energy fundamentals", "High voltage engineering", and "High current and contact technology" and thus intends to become the major one-stop reference for all issues related to the electrical power system.

Shipboard Electrical Power Systems *CRC Press*

Shipboard Electrical Power Systems addresses new developments in this growing field. Focused on the trend toward electrification to power commercial shipping, naval, and passenger vessels, this book helps new or experienced engineers master cutting-edge methods for power system design, control, protection, and economic use of power. Provides Basic Transferable Skills for Managing Electrical Power on Ships or on Land This groundbreaking book is the first volume of its kind to illustrate optimization of all aspects of shipboard electrical power systems. Applying author Mukund Patel's rare combination of industrial and educational work experiences and insight, it offers solutions to meet the increasing demand for large, fast, efficient, and reconfigurable ships to compete in international markets. For 30 years, Professor Patel was an engineer for companies including General Electric, Lockheed Martin, and Westinghouse Electric, and in the past 15 years he has been an engineering professor at the U.S. Merchant Marine Academy. That varied experience helped him zero in on the specialized multidimensional knowledge an engineer requires—and that is what sets his book apart. Compiles Critical, Hard-to-Find Information on Power System Design, Analysis, and Operation The global shortage of power engineers is not deterring countries from heavily investing in construction of new power plants and grids. Consequent growth in university electrical power programs is satisfying the demand for engineers, but novice graduates require accelerated understanding and practical experience before entering the thriving maritime segment. Ideal for readers with limited electrical experience, wide-ranging coverage includes power system basics, power generation, electrical machines, power distribution, batteries, and marine industry standards. This book is an invaluable tool for engineers working on ships, as well as in ports, industrial power plants, refineries, and other similar environments.

Power System Dynamics with Computer-Based Modeling and Analysis *John Wiley & Sons*

A unique combination of theoretical knowledge and practical analysis experience Derived from Yoshihide Hases Handbook of Power Systems Engineering, 2nd Edition, this book provides readers with everything they need to know about power system dynamics. Presented in three parts, it covers power system theories, computation theories, and how prevailed engineering platforms can be utilized for various engineering works. It features many illustrations based on ETAP to help explain the knowledge within as much as possible. Recompiling all the chapters from the previous book, Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics, including two new chapters on circuit analysis which help engineers with non-electrical engineering backgrounds. Topics covered include: Essentials of Electromagnetism; Complex Number Notation (Symbolic Method) and Laplace-transform; Fault Analysis Based on Symmetrical Components; Synchronous Generators; Induction-motor; Transformer; Breaker; Arrester; Overhead-line; Power cable; Steady-State/Transient/Dynamic Stability; Control governor; AVR; Directional Distance Relay and R-X Diagram; Lightning and Switching Surge Phenomena; Insulation Coordination; Harmonics; Power Electronics Applications (Devices, PE-circuit and Control) and more. Combines computer modeling of power systems, including analysis techniques, from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant data, formulate what-if cases, and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer-Based Modeling and Analysis will appeal to all power system engineers as well as engineering and electrical engineering students.

Power System Analysis *CRC Press*

Featuring extensive calculations and examples, this reference discusses theoretical and practical aspects of short-circuit currents in ac and dc systems, load flow, and harmonic analyses to provide a sound knowledge base for modern computer-based studies that can be utilized in real-world applications. Presenting more than 2300 figures, tables, and

Power System Analysis *John Wiley & Sons Incorporated*

Provides a basic comprehensive treatment of the major electrical engineering problems associated with the design and operation of electric power systems. The major components of the power system are modeled in terms of their sequence (symmetrical component) equivalent circuits. Reviews power flow, fault analysis, economic dispatch, and transient stability in power systems.

Practical Power System and Protective Relays Commissioning *Academic Press*

Practical Power System and Protective Relays Commissioning is a unique collection of the most important developments in the field of power system setup. It includes simple explanations and cost affordable models for operating engineers. The book explains the theory of power system components in a simple, clear method that also shows how to apply different commissioning tests for different protective relays. The book discusses scheduling for substation commissioning and how to manage available resources to efficiently complete projects on budget and with optimal use of resources. Explains the theory of power system components and how to set the different types of relays Discusses the time schedule for substation commissioning and how to manage available resources and cost implications Details worked examples and illustrates best practices

POWER SYSTEM ANALYSIS *PHI Learning Pvt. Ltd.*

Designed primarily as a textbook for senior undergraduate students pursuing courses in Electrical and Electronics Engineering, this book gives the

basic knowledge required for power system planning, operation and control. The contents of the book are presented in simple, precise and systematic manner with lucid explanation so that the readers can easily understand the underlying principles. The book deals with the per phase analysis of balanced three-phase system, per unit values and application including modelling of generator, transformer, transmission line and loads. It explains various methods of solving power flow equations and discusses fault analysis (balanced and unbalanced) using bus impedance matrix. It describes various concepts of power system stability and explains numerical methods such as Euler method, modified Euler method and Runge-Kutta methods to solve Swing equation. Besides, this book includes flow chart for computing symmetrical and unsymmetrical fault current, power flow studies and for solving Swing equation. It is also fortified with a large number of solved numerical problems and short-answer questions with answers at the end of each chapter to reinforce the students understanding of concepts. This textbook would also be useful to the postgraduate students of power systems engineering as a reference.

Power System Analysis and Design *Cengage Learning*

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Electric Power Systems *Routledge*

The field of electrical engineering has become increasingly diversified, resulting in a spectrum of emerging topics - from microelectromechanics to light-wave technology. Keeping pace with progressing technology, and covering the scope of related subjects, Electric Power Systems provides introductory, fundamental knowledge in several areas. The tex