Electrical Engineering Fundamentals By Vincent Del Toro

Superconducting technology is potentially important as one of the future smart grid technologies. It is a combination of superconductor materials, electrical engineering, cryogenic insulation, cryogenics and cryostats. There has been no specific book fully describing this branch of science and technology in electrical engineering. However, this book includes these areas, and is essential for those majoring in applied superconductivity in electrical engineering. Recently, superconducting technology has made great progress. Many universities and companies are involved in applied superconductivity with the support of government. Over the next five years, departments of electrical engineering in universities and companies will become more involved in this area. This book: • will enable people to directly carry out research on applied superconductivity in electrical engineering • is more comprehensive and practical when compared to other advances • presents a clear introduction to the application of superconductor in electrical engineering and related fundamental technologies • arms readers with the technological aspects of superconductivity required to produce a machine • covers power supplying technologies in superconducting electric apparatus • is well organized and adaptable for students, lecturers, researchers and engineers • lecture slides suitable for lecturers available on the Wiley Companion Website Fundamental Elements of Applied Superconductivity in Electrical Engineering is ideal for academic researchers, graduates and undergraduate students in electrical engineering. It is also an excellent reference work for superconducting device researchers and engineers.

A concise and original presentation of the fundamentals for 'new to the subject' electrical engineers This book has been written for students on electrical engineering courses who don't necessarily possess prior knowledge of electrical circuits. Based on the author's own teaching experience, it covers the analysis of simple electrical circuits consisting of a few essential components using fundamental and well-known methods and techniques. Although the above content has been included in other circuit analysis books, this one aims at teaching young engineers not only from electrical and electronics engineering, but also from other areas, such as mechanical engineering, aerospace engineering, mining engineering, and chemical engineering, with unique pedagogical features such as a puzzle-like approach and negative-case examples (such as the unique "When Things Go Wrong..." section at the end of each chapter). Believing that the traditional texts in this area can be overwhelming for beginners, the author approaches his subject by providing numerous examples for the student to solve and practice before learning more complicated components and circuits. These exercises and problems will provide instructors with in-class activities and tutorials, thus establishing this book as the perfect complement to the more traditional texts. All examples and problems contain detailed analysis of various circuits, and are solved using a 'recipe' approach, providing a code that motivates students to decode and apply to real-life engineering scenarios Covers the basic topics of resistors, voltage and current sources, capacitors and inductors, Ohm's and Kirchhoff's Laws, nodal and mesh analysis, black-box approach, and Thevenin/Norton equivalent circuits for both DC and AC cases in transient and steady states Aims to stimulate interest and discussion in the basics, before moving on to more modern circuits with higher-level components Includes more than 130 solved examples and 120 detailed exercises with supplementary solutions Accompanying website to provide supplementary materials www.wiley.com/go/ergul4412

Covering the fundamentals of electrical technology and using these to introduce the application of electrical and electronic systems, this text had been updated to include recent developments in technology. It avoids unnecessary mathematics and features improved teaching aids, including: worked examples; updated and graded review questions; colour diagrams and chapter summaries. It is designed for use by students on NC, HNC and HND courses in electrical and electronic engineering.

Based on familiar circuit theory and basic physics, this book serves as an invaluable reference for both analog and digital engineers alike. For those who work with analog RF, this book is a must-have resource. With computers and networking equipment of the 21st century running at such high frequencies, it is now crucial for digital designers to understand electromagnetic fields, radiation and transmission lines. This knowledge is necessary for maintaining signal integrity and achieving EMC compliance. Since many digital designers are lacking in analog design skills, let alone electromagnetics, an easy-to-read but informative book on electromagnetic topics should be considered a welcome addition to their professional libraries. Covers topics using conceptual explanations and over 150 lucid figures, in place of complex mathematics Demystifies antennas, waveguides, and transmission line phenomena Provides the foundation necessary to thoroughly understand signal integrity issues associated with high-speed digital design

Power transfer for large systems depends on high system voltages. The basics of high voltage laboratory techniques and phenomena, together with the principles governing the design of high voltage insulation, are covered in this book for students, utility engineers, designers and operators of high voltage equipment. In this new edition the text has been entirely revised to reflect current practice. Major changes include coverage of the latest instrumentation, the use of electronegative gases such as sulfur hexafluoride, modern diagnostic techniques, and high voltage testing procedures with statistical approaches. A classic text on high voltage engineering Entirely revised to bring you up-to-date with current practice Benefit from expanded sections on testing and diagnostic techniques

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features of electrical dc and ac machines.

A great resource for beginner students and professionals alike Introduction to Energy, Renewable Energy and Electrical Engineering: Essentials for Engineering Science (STEM) Professionals and Students

brings together the fundamentals of Carnot's laws of thermodynamics, Coulomb's law, electric circuit theory, and semiconductor technology. The book is the perfect introduction to energy-related fields for undergraduates and non-electrical engineering students and professionals with knowledge of Calculus III. Its unique combination of foundational concepts and advanced applications delivered with focused examples serves to leave the reader with a practical and comprehensive overview of the subject. The book includes: A combination of analytical and software solutions in order to relate aspects of electric circuits at an accessible level A thorough description of compensation of flux weakening (CFW) applied to inverter-fed, variable-speed drives not seen anywhere else in the literature Numerous application examples of solutions using PSPICE, Mathematica, and finite difference/finite element solutions such as detailed magnetic flux distributions Manufacturing of electric energy in power systems with integrated renewable energy sources where three-phase inverter supply energy to interconnected, smart power systems Connecting the energy-related technology and application discussions with urgent issues of energy conservation and renewable energy—such as photovoltaics and ground-water heat pump resulting in a zero-emissions dwelling—Introduction to Energy, Renewable Energy, and Electrical Engineering crafts a truly modern and relevant approach to its subject matter.

A comprehensive resource to designing andconstructing analog photonic links capable of high RFperformance Fundamentals of Microwave Photonics provides acomprehensive description of analog optical links from basicprinciples to applications. The book is organized into fourparts. The first begins with a historical perspective of microwavephotonics, listing the advantages of fiber optic links anddelineating analog vs. digital links. The second section coversbasic principles associated with microwave photonics in both the RFand optical domains. The third focuses on analog modulationformats—starting with a concept, deriving the RF performancemetrics from basic physical models, and then analyzing issuesspecific to each format. The final part examines applications ofmicrowave photonics, including analog receive-mode systems,high-power photodiodes applications, radio astronomy, and arbitrarywaveform generation. Covers fundamental concepts including basic treatments ofnoise, sources of distortion and propagation effects Provides design equations in easy-to-use forms as quickreference Examines analog photonic link architectures along with theirapplication to RF systems A thorough treatment of microwave photonics, Fundamentals ofMicrowave Photonics will be an essential resource in thelaboratory, field, or during design meetings. The authors have more than 55 years of combined professionalexperience in microwave photonics and have published more than 250associated works.

Rizzoni's Fundamentals of Electrical Engineering provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The book was developed to fit the growing trend of the Intro to EE course morphing into a briefer, less comprehensive course. The hallmark feature of this text is its liberal use of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies. The appeal to non-engineering students are the special features such as Focus on Measurement sections, Focus on Methodology sections, and Make the Connections sidebars.

This book serves as a tool for any engineer who wants tolearn about circuits, electrical machines and drives, powerelectronics, and power systems basics From time to time, engineers find they need to brush up oncertain fundamentals within electrical engineering. This clear andconcise book is the ideal learning tool for them to quickly learnthe basics or develop an understanding of newer topics. Fundamentals of Electric Power Engineering: FromElectromagnetics to Power Systems helps nonelectrical engineersamass power system information quickly by imparting tools and tradetricks for remembering basic concepts and grasping newdevelopments. Created to provide more in-depth knowledge offundamentals—rather than a broad range of applicationsonly—this comprehensive and up-to-date book: Covers topics such as circuits, electrical machines and drives,power electronics, and power system basics as well as newgeneration technologies Allows nonelectrical engineers to build their electricalknowledge quickly Includes exercises with worked solutions to assist readers ingrasping concepts found in the book Contains "in-depth" side bars throughout whichpique the reader's curiosity Fundamentals of Electric Power Engineering is an idealrefresher course for those involved in this interdisciplinarybranch. For supplementary files for this book, please visit ahref="http://booksupport.wiley.com/"http://booksupport.wiley.com/a

The Text book is arranges so that I can be used for self-study by the engineering in practice.Included are as many examples of feedback control system in various areas of practice while maintaining a strong basic feedback control text that can be used for study in any of the various branches of engineering.

Electrical Engineering FundamentalsPrentice HallElectrical Engineering Fundamentals 2Nd Ed.Principles of Electrical EngineeringPrentice HallFundamentals of Electric Power EngineeringFrom Electromagnetics to Power SystemsJohn Wiley & Sons

Basic Electric Circuits, Second Edition details the underlying principle that governs the electric-circuit theory. The title provides problems and worked examples that supplement the discussion of applications of the ideas. The text first deals with conducting and insulating materials, and then proceeds to talking about semiconductor junction devices. Next, the selection covers resistance, capacitance, and inductance, along with different kinds of circuitry. The title also discusses graphical methods, symbolic method of analysis, and elementary transmission-line analysis. The book will be of great use to students of electrical engineering. The text will also serve as a reference material for professional engineers.

Using a systems framework, this textbook clearly explains how individual elements contribute to the overall performance of a radio system.

For core courses in Electric Machinery. Focuses on all aspects of steady-state performance, control and applications. (vs. Fitzgerald, Chapman, Nasar, Lindsay/Rashid).

This introductory text on circuit analysis for undergraduate courses follows a logical development of topics. The topology of networks is stressed with the aid of graph theory. Worked examples throughout together with chapter problems, solutions and tutorial guidance.

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Simulation of Power Electronics Converters Using PLECS® is a guide to simulating a power electronics circuit using the latest powerful software for power electronics circuit simulation purposes. This book assists engineers gain an increased understanding of circuit operation so they can, for a given set of specifications, choose a topology, select appropriate circuit component types and values, estimate circuit performance, and complete the design by ensuring that the circuit performance will meet specifications even with the anticipated variations in

operating conditions and circuit component values. This book covers the fundamentals of power electronics converter simulation, along with an analysis of power electronics converters using PLECS. It concludes with real-world simulation examples for applied content, making this book useful for all those in the electrical and electronic engineering field. Contains unique examples on the simulation of power electronics converters using PLECS® Includes explanations and guidance on all included simulations for re-doing the simulations Incorporates analysis and design for rapidly creating power electronics circuits with high accuracy

The book is a review of essential skills that an entry-level or experienced engineer must be able to demonstrate on a job interview and perform when hired. It will help engineers prepare for interviews by demonstrating application of basic principles to practical problems. Hiring managers will find the book useful because it defines a common ground between the student's academic background and the company's product or technology-specific needs, thereby allowing managers to minimize their risk when making hiring decisions. Ten Essential Skills contains a series of "How to" chapters. Each chapter realizes a goal, such as designing an active filter or designing a discrete servo. The primary value of these chapters, however, is that they apply engineering fundamentals to practical problems. The book is a handy reference for engineers in their first years on the job. Enables recent graduates in engineering to succeed in challenging technical interviews Written in an intuitive, easy-to-follow style for the benefit of busy students and employers Book focuses on the intersection between company-specific knowledge and engineering fundamentals Companion website includes interview practice problems and advanced material

An Introduction to Electric Circuits is essential reading for first year students of electronics and electrical engineering who need to get to grips quickly with the basic theory. This text is a comprehensive introduction to the topic and, assuming virtually no knowledge, it keeps the mathematical content to a minimum. As with other textbooks in the series, the format of this book enables the student to work at their own pace. It includes numerous worked examples throughout the text and graded exercises, with answers, at the end of each section.

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

Electrical Installations Technology covers the syllabus of the City and Guilds of London Institute course No. 51, the "Electricians B Certificate . This book is composed of 15 chapters that deal with basic electrical science and electrical installations. The introductory chapters discuss the fundamentals and basic electrical principles, including the concept of mechanics, heat, magnetic fields, electric currents, power, and energy. These chapters also explore the atomic theory of electric current and the electric circuit, conductors, and insulators. The subsequent chapter focuses on the chemistry of an electric cell, which is classified into two types, namely, the primary and secondary cells. This text also describes the principles, construction, types, and specifications of direct current machines. A chapter emphasizes the storage of energy for short periods in a capacitor, along with a brief discussion of its theory and construction. Other chapters are devoted to alternating-current systems. The remaining chapters cover the commonly used electrical measuring instruments in electrical installation work. This book is an invaluable source for electricians.

This is the only book on the market that has been conceived and deliberately written as a one-semester text on basic electric circuit theory. As such, this book employs a novel approach to the exposition of the material in which phasors and ac steady-state analysis are introduced at the beginning. This allows one to use phasors in the discussion of transients excited by ac sources, which makes the presentation of transients more comprehensive and meaningful. Furthermore, the machinery of phasors paves the road to the introduction of transfer functions, which are then used in the analysis of transients and the discussion of Bode plots and filters. Another salient feature of the text is the consolidation into one chapter of the material concerned with dependent sources and operational amplifiers. Dependent sources are introduced as linear models for transistors on the basis of small signal analysis. In the text, PSpice simulations are prominently featured to reinforce the basic material and understanding of circuit analysis. Key Features * Designed as a comprehensive one-semester text in basic circuit theory * Features early introduction of phasors and ac steady-state analysis * Covers the application of phasors and ac steady-state analysis * Consolidates the material on dependent sources and operational amplifiers * Places emphasis on connections between circuit theory and other areas in electrical engineering * Includes PSpice tutorials and examples * Introduces the design of active filters * Includes problems at the end of every chapter * Priced well below similar books designed for year-long courses

A clear explanation of the technology for producing and delivering electricity Electric Power Systems explains and illustrates how the electric grid works in a clear, straightforward style that makes highly technical material accessible. It begins with a thorough discussion of the underlying physical concepts of electricity, circuits, and complex power that serves as a foundation for more advanced material. Readers are then introduced to the main components of electric power systems, including generators, motors and other appliances, and transmission and distribution equipment such as power lines, transformers, and circuit breakers. The author explains how a whole power system is managed and coordinated, analyzed mathematically, and kept stable and reliable. Recognizing the economic and environmental implications of electric energy production and public concern over disruptions of service, this book exposes the challenges of producing and delivering electricity to help inform public policy decisions. Its discussions of complex concepts such as reactive power balance, load flow, and stability analysis, for example, offer deep insight into the complexity of electric grid operation and demonstrate how and why physics constrains economics and politics. Although this survival guide includes mathematical equations and formulas, it discusses their meaning in plain English and does not assume any prior familiarity with particular notations or technical jargon. Additional features include: * A glossary of symbols, units, abbreviations, and acronyms * Illustrations that help readers visualize processes and better understand complex concepts * Detailed analysis of a case study, including a Web reference to the case, enabling readers to test the consequences of manipulating various parameters With its clear discussion of how electric grids work, Electric Power Systems is appropriate for a broad readership of professionals, undergraduate and graduate students, government agency managers, environmental advocates, and consumers.

Differential evolution is a very simple but very powerful stochastic optimizer. Since its inception, it has proved very efficient and robust in function optimization and has been applied to solve problems in many scientific and engineering fields. In Differential Evolution , Dr. Qing begins with an overview of optimization, followed by a state-of-the-art review of differential evolution, including its fundamentals and up-to-date advances. He goes on to explore the relationship between differential evolution strategies, intrinsic control parameters, non-intrinsic control

parameters, and problem features through a parametric study. Findings and recommendations on the selection of strategies and intrinsic control parameter values are presented. Lastly, after an introductory review of reported applications in electrical and electronic engineering fields, different research groups demonstrate how the methods can be applied to such areas as: multicast routing, multisite mapping in grid environments, antenna arrays, analog electric circuit sizing, electricity markets, stochastic tracking in video sequences, and color quantization. Contains a systematic and comprehensive overview of differential evolution Reviews the latest differential evolution research Describes a comprehensive parametric study conducted over a large test bed Shows how methods can be practically applied to mobile communications grid computing circuits image processing power engineering Sample applications demonstrated by research groups in the United Kingdom, Australia, Italy, Turkey, China, and Eastern Europe Provides access to companion website with code examples for download Differential Evolution is ideal for application engineers, who can use the methods described to solve specific engineering problems. It is also a valuable reference for post-graduates and researchers working in evolutionary computation, design optimization and artificial intelligence. Researchers in the optimization field or engineers and managers involved in operations research will also find the book a helpful introduction to the topic.

Energy Services Fundamentals and Financing, first volume of the Energy Services and Management series, provides a global view of energy services schemes and practices. The book discusses the role of energy services within the larger energy landscape and explores key technical aspects of energy systems for power, heating and cooling, including renewable energy systems and combined heat and power. The book analyzes energy efficiency in several electrical devices, such as motors, lighting and vehicles. It then examines actual energy services business models and policy, before presenting a quick reference section that includes key models and calculations. Provides an innovative approach to the fundamental aspects related with energy services, including technology implementation and financial schemes Discusses tools to measure process efficiency and sustainability in power and heating applications Includes case studies, models and calculations, both technical and financial, as well as downloadable data for simulation and modeling

Mechanical Engineer's Reference Book, 12th Edition is a 19-chapter text that covers the basic principles of mechanical engineering. The first chapters discuss the principles of mechanical engineering, electrical and electronics, microprocessors, instrumentation, and control. The succeeding chapters deal with the applications of computers and computer-integrated engineering systems; the design standards; and materials' properties and selection. Considerable chapters are devoted to other basic knowledge in mechanical engineering, including solid mechanics, tribology, power units and transmission, fuels and combustion, and alternative energy sources. The remaining chapters explore other engineering fields related to mechanical engineering, including nuclear, offshore, and plant engineering. These chapters also cover the topics of manufacturing methods, engineering mathematics, health and safety, and units of measurements. This book will be of great value to mechanical engineers.

The theory of transmission lines is a classical topic of electrical engineering. Recently this topic has received renewed attention and has been a focus of considerable research. This is because the transmisson line theory has found new and important applications in the area of high-speed VLSI interconnects, while it has retained its significance in the area of power transmission. In many applications, transmission lines are connected to nonlinear circuits. For instance, interconnects of high-speed VLSI chips can be modelled as transmission lines loaded with nonlinear elements. These nonlinearities may lead to many new effects such as instability, chaos, generation of higher order harmonics, etc. The mathematical models of transmission lines with nonlinear loads consist of the linear partial differential equations describing the current and voltage dynamics along the lines together with the nonlinear boundary conditions imposed by the nonlinear loads connected to the lines. These nonlinear boundary conditions make the mathematical treatment very difficult. For this reason, the analysis of transmission lines with nonlinear loads has not been addressed adequately in the existing literature. The unique and distinct feature of the proposed book is that it will present systematic, comprehensive, and in-depth analysis of transmission lines with nonlinear loads. A unified approach for the analysis of networks composed of distributed and lumped circuits A simple, concise and completely general way to present the wave propagation on transmission lines, including a thorough study of the line equations in characteristic form Frequency and time domain multiport representations of any linear transmission line A detailed analysis of the influence on the line characterization of the frequency and space dependence of the line parameters A rigorous study of the properties of the analytical and numerical solutions of the network equations The associated discrete circuits and the associated resisitive circuits of transmission lines Periodic solutions, bifurcations and chaos in transmission lines connected to noninear lumped circuits

Design and Optimization of Biogas Energy Systems presents an overview on planning, implementing, assessing and optimizing biogas systems, from fuel conversion to power generation. The book introduces the fundamental elements of bioenergy systems, highlighting the specificities of biogas systems. It discusses the current state of their adoption at a global level and the challenges faced by designers and operators. Methods for sizing, simulating and modeling are discussed, including prefeasibility analysis, available production processes, integration into hybrid energy systems, and the application of Big Data analysis and game theory concepts. All chapters include real-life examples and exercises to illustrate the topics being covered. The book goes beyond theory to offer practical knowledge of methods to reach solutions to key challenges in the field. This is a valuable resource for researchers, practitioners and graduate students interested in developing smart, reliable and sustainable biogas technologies. Provides an applied approach to biogas systems, from technology fundamentals, to economic and environmental assessment Explores control methods and reliability prediction of each system component, including modeling and simulation with HOMER and MATLAB Discusses the use of Big Data analysis, numerical methods, and Game Theory for plant assessment

The purpose of this book is to introduce the reader to the basic theory of signal detection and estimation. It is assumed that the reader has a working knowledge of applied probabil ity and random processes such as that taught in a typical first-semester graduate engineering course on these subjects. This material is covered, for example, in the book by Wong (1983) in this series. More advanced concepts in these areas are introduced where needed, primarily in Chapters VI and VII, where continuous-time problems are treated. This book is adapted from a one-semester, second-tier graduate course taught at the University of Illinois. However, this material can also be used for a shorter or first-tier course by restricting coverage to Chapters I through V, which for the most part can be read with a background of only the basics of applied probability, including random vectors and conditional expectations. Sufficient background for the latter

option is given for exam pIe in the book by Thomas (1986), also in this series.

The book provides technical know-how not covered by most universities and colleges in a subject that is central to the roles of many electrical engineers in industry, focusing on switchgear, power cables, power factor correction, and network studies. * Learn how to install and maintain electrical power equipment in industrial settings * Select and specify the right power system at the right price * Provides the practical essentials for reliable operation of industrial electrical networks - covering switchgear, cabling and power correction factors

This book provides a fundamental and practical introductionto radio frequency and microwave engineering and physical aspectsof wireless communication In this book, the author addresses a wide range ofradio-frequency and microwave topics with emphasis on physicalaspects including EM and voltage waves, transmission lines, passivecircuits, antennas, radio wave propagation. Up-to-date RF designtools like RF circuit simulation, EM simulation and computerizedsmith charts, are used in various examples to demonstrate how thesemethods can be applied effectively in RF engineering practice. Design rules and working examples illustrate the theoreticalparts. The examples are close to real world problems, so the readercan directly transfer the methods within the context of their ownwork. At the end of each chapter a list of problems is given inorder to deepen the reader's understanding of the chaptermaterial and practice the new competences. Solutions are availableon the author's website. Key Features: Presents a wide range of RF topics with emphasis on physicalaspects e.g. EM and voltage waves, transmission lines, passivecircuits, antennas Uses various examples of modern RF tools that show how themethods can be applied productively in RF engineering practice Incorporates various design examples using circuit andelectromagnetic (EM) simulation software Discusses the propagation of waves: their representation, theireffects, and their utilization in passive circuits and antennastructures Provides a list of problems at the end of each chapter Includes an accompanying website containing solutions to theproblems (http:\\www.fh-dortmund.de\gustrau_rf_textbook) This will be an invaluable textbook for bachelor andmasters students on electrical engineering courses(microwave engineering, basic circuit theory and electromagneticfields, wireless communications). Early-stage RF practitioners,engineers (e.g. application engineer) working in this area willalso find this book of interest.

A self-contained introductory treatment of electric power systems. It first covers basic principles and then focuses on the electric power system under conditions of balanced operation. It also considers specific operating features and addresses balanced and unbalanced fault analysis.

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