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This innovative approach to the fundamentals of electric power provides the most rigorous, comprehensive and modern treatment available. To impart a thorough grounding in electric power systems, it begins with an informative discussion on per-unit normalizations, symmetrical components and iterative load flow calculations. Covering important topics within the power system, such as protection and DC transmission, this book looks at both traditional power plants and those used for extracting sustainable energy from wind and sunlight. With classroom-tested material, this book also presents: the principles of electromechanical energy conversion and magnetic circuits; synchronous machines - the most important generators of electric power; power electronics; induction and direct current electric motors. Homework problems with varying levels of difficulty are included at the end of each chapter, and an online solutions manual for tutors is available. A useful Appendix contains a review of elementary network theory. For senior undergraduate and postgraduate students studying advanced electric power systems as well as engineers re-training in this area, this textbook will be an indispensable resource. It will also benefit engineers in electronic power systems, power electronic systems, electric motors and generators, robotics and mechatronics.

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A revised and updated text that explores the fundamentals of the physics of electric power handling systems. The revised and updated second edition of *Electric Power Principles: Sources, Conversion, Distribution and Use* offers an innovative and comprehensive approach to the fundamentals of electric power. The author – a noted expert on the topic – provides a thorough grounding in electric power systems, with an informative discussion on per-unit normalisations, symmetrical components and iterative load flow calculations. The text covers the most important topics within the power system, such as protection and DC transmission, and examines both traditional power plants and those used for extracting sustainable energy from wind and sunlight. The text explores the principles of electromechanical energy conversion and magnetic circuits and synchronous machines – the most important generators of electric power. The book also contains information on power electronics, induction and direct current motors. This new second edition includes: A new chapter on energy storage, including battery modeling and how energy storage and associated power electronics can be used to modify system dynamics. Information on voltage stability and bifurcation. The addition of Newton's Method for load flow calculations. Material on the grounding transformer connections added to the section on three phase transformer. An example of the unified power flow controller for voltage support. Written for students studying electric power systems and electrical engineering, the updated second edition of *Electric Power Principles: Sources, Conversion, Distribution and Use* is the classroom-tested text that offers an understanding of the basics of the physics of electric power handling systems.

Electric power engineering has always been an integral part of electrical engineering education. Providing a unique alternative to existing books on the market, this text presents a concise and rigorous exposition of the main fundamentals of electric power engineering. Contained in a single volume, the materials can be used to

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teach three separate courses — electrical machines, power systems and power electronics, which are in the mainstream of the electrical engineering curriculum of most universities worldwide. The book also highlights an in-depth review of electric and magnetic circuit theory with emphasis on the topics which are most relevant to electric power engineering. Contents: Review of Electric and Magnetic Circuit Theory: Basic Electric Circuit Theory Analysis of Electric Circuits with Periodic Non-sinusoidal Sources Magnetic Circuit Theory Power Systems: Introduction to Power Systems Fault Analysis Transformers Synchronous Generators Power Flow Analysis and Stability of Power Systems Induction Machines Power Electronics: Power Semiconductor Devices Rectifiers Inverters DC-to-DC Converters (Choppers) Keywords: Power Systems; Electrical Machines; Power Electronics

A mathematically rigorous guide to convex optimization for power systems engineering.

Energy storage technologies play an important role in terms of high-efficient energy utilisation and stable energy flow in the system. This book provides a glimpse of some latest advancements in energy storage technologies, management and control, innovative energy conversion, energy efficiency and system integration. It is aimed at providing a guideline for developing similar storage systems and for the readers who are interested in energy storage-related technologies, wind energy, solar energy, smart grid and smart buildings.

The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics

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are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results.

A bestselling calculations handbook that offers electric power engineers and technicians essential, step-by-step procedures for solving a wide array of electric power problems. This edition introduces a complete electronic book on CD-ROM with over 100 live calculations--90% of the book's calculations. Updated to reflect the new National Electric Code advances in transformer and motors; and the new system design and operating procedures in the electric utility industry prompted by deregulation.

This book presents different aspects of renewable energy integration, from the latest developments in renewable energy technologies to the currently growing smart grids. The importance of different renewable energy sources is discussed, in order to identify the advantages and challenges for each technology. The rules of connecting the renewable energy sources have also been covered along with practical examples. Since solar and wind energy are the most popular forms of renewable energy sources, this book provides the challenges of integrating these renewable generators along with some innovative solutions. As the complexity of power system operation has been raised due to the renewable energy integration, this book also includes some analysis to investigate the characteristics of power systems in a smarter way. This book is intended for those working in the area of renewable energy integration in distribution networks.

Americans' safety, productivity, comfort, and convenience depend on the reliable supply of electric power. The electric power system is a complex "cyber-physical" system composed of a network of millions of components spread out across the continent. These components are owned, operated, and regulated by

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thousands of different entities. Power system operators work hard to assure safe and reliable service, but large outages occasionally happen. Given the nature of the system, there is simply no way that outages can be completely avoided, no matter how much time and money is devoted to such an effort. The system's reliability and resilience can be improved but never made perfect. Thus, system owners, operators, and regulators must prioritize their investments based on potential benefits. Enhancing the Resilience of the Nation's Electricity System focuses on identifying, developing, and implementing strategies to increase the power system's resilience in the face of events that can cause large-area, long-duration outages: blackouts that extend over multiple service areas and last several days or longer. Resilience is not just about lessening the likelihood that these outages will occur. It is also about limiting the scope and impact of outages when they do occur, restoring power rapidly afterwards, and learning from these experiences to better deal with events in the future.

A comprehensive resource that provides the basic concepts of electric power systems, microeconomics, and optimization techniques *Electricity Markets: Theories and Applications* offers students and practitioners a clear understanding of the fundamental concepts of the economic theories, particularly microeconomic theories, as well as information on some advanced optimization methods of electricity markets. The authors—noted experts in the field—cover the basic drivers for the transformation of the electricity industry in both the United States and around the world and discuss the fundamentals of power system operation, electricity market design and structures, and electricity market operations. The text also explores advanced topics of power system operations and electricity market design and structure including zonal versus nodal pricing, market performance and market power issues, transmission pricing, and the emerging problems electricity markets face in smart grid and micro-grid environments. The authors also examine system

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planning under the context of electricity market regime. They explain the new ways to solve problems with the tremendous amount of economic data related to power systems that is now available. This important resource: Introduces fundamental economic concepts necessary to understand the operations and functions of electricity markets Presents basic characteristics of power systems and physical laws governing operation Includes mathematical optimization methods related to electricity markets and their applications to practical market clearing issues Electricity Markets: Theories and Applications is an authoritative text that explores the basic concepts of the economic theories and key information on advanced optimization methods of electricity markets.

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