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Pulsed-Power Systems describes the physical and technical foundations for the production and application of high-voltage pulses of very high-power and high-energy character. In the initial chapters, it addresses materials, components and the most common diagnostics. In the second part, three categories of applications with scientific and industrial relevance are detailed: production of strong pulsed electric and magnetic fields, intense radiation sources and pulsed electric (plasma) discharges.

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor angle stability and voltage stability as well as control mechanism of the frequency and voltage are described. Illustrative examples and graphical representations help readers across many disciplines acquire ample knowledge on the respective subjects.

Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

Industrial Energy Management: Principles and Applications provides an overall view of the energy management approach by following the stream of energy from factory boundaries to end users. All topics are examined from the point of view of plant users rather than from that of designers and only the basic concepts necessary to clarify the operation of the plants are outlined. Industrial Energy Management: Principles and Applications is written both as a textbook for university courses in engineering and as a work of reference for professionals in energy management. Readers are assumed to have a basic knowledge of thermodynamics, heat and mass transfer, electric systems and power electronics, as well as computer programming. This book can be used not only by technicians involved in the field of energy management but also by managers who may find it a useful tool for understanding investment proposals and even a spur to solicit new ones. Industrial Energy Management: Principles and Applications consists of 21 chapters concerning general principles of energy transformation and energy sources, transformation plants such as electrical substations and boiler plants, cogeneration plants, electrical and thermal fluid distribution lines, facilities plants such as pumps and fans, air compressors, cooling, HVAC and lighting systems, heat recovery equipment, principles of energy auditing and accounting by using computers, correlation between energy and waste, education in the field. At the end of the book a chapter has been dedicated to economic analysis of energy saving investments and evaluation is given of all the cases studied in the book.

Principles of Electrical Transmission Lines in Power and Communication is a preliminary study in the transmission of electricity, which particularly discusses principles common to all electrical transmission links, whether their functions be communication or bulk power transfer. This book explains the propagation on loss-free lines I and II and introduces the finite loss-free lines. The sinusoidal excitation of dissipative lines I and II is then examined, and the occurrence of standing waves and quarter-wave is then discussed. This text also looks into topics on frequencies. This book will be invaluable to students and experts in the field of electronics and related disciplines.

Frequency control as a major function of automatic generation control is one of the important control problems in electric power system design and operation, and is becoming more significant today because of the increasing size, changing structure, emerging new uncertainties, environmental constraints and the complexity of power systems. In the last two decades, many studies have focused on damping control and voltage stability and the related issues, but there has been much less work on the power system frequency control analysis and synthesis. While some aspects of frequency control have been illustrated along with individual chapters, many conferences and technical papers, a comprehensive and sensible practical explanation of robust frequency control in a book form is necessary. This book provides a thorough understanding of the basic principles of power system frequency behaviour in wide range of operating conditions. It uses simple frequency response models, control structures and mathematical algorithms to adapt modern robust control theorems with frequency control issue and conceptual explanations. Most developed control strategies are examined by real-time simulations. Practical methods for computer analysis and design are emphasized. This book emphasizes the physical and engineering aspects of the power system frequency control design problem, providing a conceptual understanding of frequency regulation, and application of robust control techniques. The main aim is to develop an appropriate intuition relative to the robust load frequency regulation problem in real-world power systems, rather than to describe sophisticated mathematical analytical methods.

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