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Electrical Drives. Principles, Planning, Applications, Solutions Автор: Jens Weidauer Серия: Жанр: Техническая литература Год выпуска: 0 isbn: 9783895789236 Аннотация: From the point of view of a user this book covers all aspects of modern electrical drives.

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Electrical drives have many advantages over other mechanical drives. Electrical drives are more popular for its simple constructions, reliability, cleanliness, and smooth easy speed control. In electrical drives, both types of electrical motors, AC and DC motors are used for applications. In electrical drives choice, AC drive is preferred because of the following points, It cost less

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From the point of view of a user this book covers all aspects of modern electrical drives. It is aimed at both users, who wish to understand, design, use, and maintain electrical drives, as well as specialists, technicians, engineers, and students, who wish to gain a comprehensive overview of electrical drives. Jens Weidauer and Richard Messer describe the principles of electrical drives, their design, and application, through to complex automation solutions. In the process, they introduce the entire spectrum of drive solutions available and their main applications. A special aspect is the combination of multiple drives to form a drive system, as well as the integration of drives into automation solutions. In simple and clear language, and supported with many diagrams, complex relationships are described and presented in an easy-to-understand way. The authors deliberately avoid a comprehensive mathematical treatment of their subject and instead focus on a coherent description of the active principles and relationships. As a result, the reader will be in a position to understand electrical drives as a whole and to solve drive-related problems in everyday professional life.

The book provides a complete overview of the SIMATIC automation system and the TIA Portal with the engineering tool STEP 7. "Automating with SIMATIC" addresses all those who - want to get an overview of the components of the system and their features, - wish to familiarize themselves with the

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topic of programmable logic controllers, or - intend to acquire basic knowledge about configuration, programming and interaction of the SIMATIC components. At first, the book introduces the hardware of SIMATIC S7-1200, S7-300, S7-400 and S7-1500, including the ET 200 peripheral modules. This is followed by describing the work with STEP 7 in the programming languages LAD, FBD, STL, SCL and S7-Graph, and offline testing with S7-PLCSIM. The next section describes the structure of the user program, which is followed by the illustration of the data communication between the controllers of the automation system as well as with the peripheral devices by use of the bus systems Profinet and Profibus. The book closes with a survey of the devices for operator control and process monitoring and their configuration software.

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



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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.

This book provides extensive information about advanced control techniques in electric drives. Multiple control and estimation methods are studied for position and speed tracking in different drives. Artificial intelligence tools, such as fuzzy logic and neural networks, are used for specific applications using electric drives.

This book provides a systematic assessment of the performance of electric and hybrid buses in urban areas on a daily basis and presents a complete set of

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technical scenarios to promote their efficient exploitation. It will also help readers understand how future buses will perform on specific roads and how the latest technologies can be integrated into existing fleets by proposing a methodology for evaluating the energy consumption for general and specific routes and scenarios. Covering all aspects relating to the daily use of electric and hybrid buses, including maintenance strategies, power train configuration, battery replacements, route evaluation, and charging speed, emphasis is placed on energy efficiency and effective implementation. Addressing key developments in intelligent vehicle technologies, the book presents innovative transportation technologies and a broad range of topics in transportation-related sustainability research, from vehicle systems and design, to mass transit systems.

Discover cutting-edge developments in electric power systems Stemming from cutting-edge research and education activities in the field of electric power systems, this book brings together the knowledge of a panel of experts in economics, the social sciences, and electric power systems. In ten concise and comprehensible chapters, the book provides unprecedented coverage of the operation, control, planning, and design of electric power systems. It also discusses: A framework for interdisciplinary research and education Modeling electricity markets Alternative economic criteria and proactive planning for transmission investment in deregulated power systems Payment cost minimization with demand bids and partial capacity cost compensations for day-ahead electricity auctions Dynamic oligopolistic

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competition in an electric power network and impacts of infrastructure disruptions Reliability in monopolies and duopolies Building an efficient, reliable, and sustainable power system Risk-based power system planning integrating social and economic direct and indirect costs Models for transmission expansion planning based on reconfiguration capacitor switching Next-generation optimization for electric power systems Most chapters end with a bibliography, closing remarks, conclusions, or future work.

Economic Market Design and Planning for Electric Power Systems is an indispensable reference for policy-makers, executives and engineers of electric utilities, university faculty members, and graduate students and researchers in control theory, electric power systems, economics, and the social sciences.

A guide to the latest developments in grid dynamics and control and highlights the role of transmission and distribution grids Dynamics and Control of Electric Transmission and Microgrids offers a concise and comprehensive review of the most recent developments and research in grid dynamics and control. In addition, the authors present a new style of presentation that highlights the role of transmission and distribution grids that ensure the reliability and quality of electric power supply. The authors — noted experts in the field — offer an introduction to the topic and explore the basic characteristics and operations of the grid. The text also reviews a wealth of vital topics such as FACTS and HVDC Converter controllers, the stability and security issues of the

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bulk power system, loads which can be viewed as negative generation, the power limits and energy availability when distributed storage is used and much more. This important resource: Puts the focus on the role of transmission and distribution grids that ensure the reliability and quality of electric power supply Includes modeling and control of wind and solar energy generation for secure energy transfer Presents timely coverage of on-line detection of loss of synchronism, wide area measurements and applications, wide-area feedback control systems for power swing damping and microgrids-operation and control Written for students of power system dynamics and control/electrical power industry professionals, Dynamics and Control of Electric Transmission and Microgrids is a comprehensive guide to the recent developments in grid dynamics and control and highlights the role of transmission and distribution grids that ensure the reliability and quality of electric power supply.

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