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Master the basic topics and fundamental concepts underlying electric machines, power electronics, and electric drives with FUNDAMENTALS OF ELECTRIC DRIVES, 2nd Edition. While other books on electric drives concentrate on converters and waveform analysis and ignore mechanical load dynamics or emphasize motor characteristics with little analysis of converters and controllers, this unique approach provides a complete overview of the subject at a level that's ideal for full comprehension. You follow the analysis and design of a complete electric drive system with coverage of mechanical loads, motors, converters, sensing, and controllers. The author clearly presents drive applications to electric traction, robotics, and wind energy using real examples from industry throughout. With its practical content, this book even serves as a useful reference for professional electric drive engineers.

This text fills a need for a textbook that presents the basic topics and fundamental concepts underlying electric machines, power electronics, and electric drives for electrical engineering students at the undergraduate level. Most existing books on electric drives concentrate either on converters and waveform analysis (ignoring mechanical load dynamics), or on motor characteristics (giving short shrift to analysis of converters and controllers). This book provides a complete overview of the

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subject, at the right level for EE students. The book takes readers through the analysis and design of a complete electric drives system, including coverage of mechanical loads, motors, converters, sensing, and controllers. In addition to serving as a text, this book serves as a useful and practical reference for professional electric drives engineers.

The search for renewable energy and smart grids, the societal impact of blackouts, and the environmental impact of generating electricity, along with the new ABET criteria, continue to drive a renewed interest in electric energy as a core subject. Keeping pace with these changes, *Electric Energy: An Introduction, Third Edition* restructures the traditional introductory electric energy course to better meet the needs of electrical and mechanical engineering students. Now in color, this third edition of a bestselling textbook gives students a wider view of electric energy, without sacrificing depth. Coverage includes energy resources, renewable energy, power plants and their environmental impacts, electric safety, power quality, power market, blackouts, and future power systems. The book also makes the traditional topics of electromechanical conversion, transformers, power electronics, and three-phase systems more relevant to students. Throughout, it emphasizes issues that engineers encounter in their daily work, with numerous examples drawn from real systems and real data. What 's New in This Edition

- Color illustrations
- Substation and distribution equipment
- Updated data on energy resources
- Expanded coverage of power plants
- Expanded material on renewable energy
- Expanded material on electric safety
- Three-phase system and pulse width modulation for DC/AC converters
- Induction generator
- More information on smart grids
- Additional problems and solutions

Combining the fundamentals of traditional energy conversion with contemporary topics in electric energy, this accessible textbook gives students the broad background they need to meet future challenges.

Designed to serve as a textbook for a single semester undergraduate course on electromechanical energy conversion devices or electric machines, *ELECTRIC MACHINES* strikes a balance between theoretical coverage, easy explanations, and practical applications, presenting real world applications of concepts without compromising on the rigor or the continuity of the text. The book provides excellent readability, in a conversational style, combined with invaluable industry insight. The accompanying website provides problems solved in MATLAB, SPICE simulations, manufacturing data, as well as additional problems for students and instructors. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wind Energy: An Introduction covers wind energy system types, operation, modeling, analysis, integration, and control. Beginning with a history of the development of wind energy, this comprehensive book: Explains the aerodynamic theories that govern the operation of wind turbines Presents wind energy statistics to address the stochastic nature of win

Electric power engineering education traditionally covers safety of the power equipment and systems. Little attention, if any, is

given to the safety of people. When they reach professional status, most power engineers are not familiar with electric safety issues such as practices governing site works or grounding techniques of dwellings, hospitals, and factories. Designed for both electrical engineering student and practicing power engineers, *Electric Safety: Practice and Standards* provides the knowledge and analysis they need to be well versed in electric safety. Features: Includes techniques to assess safety practices at worksites and provides remedies to correct safety problems Addresses the elusive stray voltage problem and provides techniques to mitigate its impact in dwellings as well as in sensitive installations such as hospitals and dairy farms Provides approximate, yet accurate, analyses and techniques that can be used to assess electric safety without the need for extensive computation or elaborate programs Includes several case studies from real events and examples demonstrating how variations in electric safety procedure implementation influence safety levels Based on the authors' years of experience as an expert witness and electric safety training instructor, the book covers the analysis of electric safety practices as well as the interpretations of various safety codes. Including homework problems and a solutions manual, this book is a comprehensive guide to recognize and eliminate hazards of electric shocks for professionals working on electric power equipment, as well as people such as the general public in commonly used places, farms workers and animals, and hospital patients.

The purpose of this book is to familiarize the reader with all aspects of electrical drives. It contains a comprehensive user-friendly introductory text.

This book explores how developing solutions with heuristic tools offers two major advantages: shortened development time and more robust systems. It begins with an overview of modern heuristic techniques and goes on to cover specific applications of heuristic approaches to power system problems, such as security assessment, optimal power flow, power system scheduling and operational planning, power generation expansion planning, reactive power planning, transmission and distribution planning, network reconfiguration, power system control, and hybrid systems of heuristic methods.

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