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This book offers an introduction to applications of fuzzy system theory to selected areas of electric power engineering. It presents theoretical background material from a practical point of view and then explores a number of applications of fuzzy systems. Most recently, there has been a tremendous surge in research and application articles on this subject. Until now though, there have been no books that put together a practical guide to the fundamentals and applications aspects. Electric Power Applications of Fuzzy Systems presents, under one cover, original contributions by authors who have pioneered in the application of fuzzy system theory to the electric power engineering field. Each chapter contains both an introduction to and a state-of-the-art review of each application area. This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals. Defines and explains abbreviations, acronyms, technical terms, and information vocabulary. Transmission and Distribution Electrical Engineering Elsevier

Written in a down-to-earth, easy-to-understand manner,

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Electrical Power Distribution and Transmission is a state-of-the-art book that offers readers a practical orientation and introduction to electrical power distribution and transmission. Outstanding features, which have been widely applauded, include real-world aspects of the field (readers are exposed to theory and practice they will use in their careers); organized into three easy to understand sections, including History, Electrical Power Distribution, and Electrical Power Transmission; thorough coverage of subject concepts; and offers up-to-date material with historical perspective. This comprehensive book is appropriate for courses in electrical power distribution and/or transmission. Readers will find previous courses in dc/ac circuits, algebra, and trigonometry to be a plus. Shipboard Propulsion, Power Electronics, and Ocean Energy fills the need for a comprehensive book that covers modern shipboard propulsion and the power electronics and ocean energy technologies that drive it. With a breadth and depth not found in other books, it examines the power electronics systems for ship propulsion and for extracting ocean energy, which are mirror images of each other. Comprised of sixteen chapters, the book is divided into four parts: Power Electronics and Motor Drives explains basic power electronics converters and variable-frequency drives, cooling methods, and quality of power Electric Propulsion Technologies focuses on the electric propulsion of ships using recently developed permanent magnet and superconducting motors, as well as hybrid propulsion using fuel cell, photovoltaic, and wind power Renewable Ocean Energy Technologies explores

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renewable ocean energy from waves, marine currents, and offshore wind farms System Integration Aspects discusses two aspects—energy storage and system reliability—that are essential for any large-scale power system This timely book evolved from the author’s 30 years of work experience at General Electric, Lockheed Martin, and Westinghouse Electric and 15 years of teaching at the U.S. Merchant Marine Academy. As a textbook, it is ideal for an elective course at marine and naval academies with engineering programs. It is also a valuable reference for commercial and military shipbuilders, port operators, renewable ocean energy developers, classification societies, machinery and equipment manufacturers, researchers, and others interested in modern shipboard power and propulsion systems. The information provided herein does not necessarily represent the view of the U.S. Merchant Marine Academy or the U.S. Department of Transportation. This book is a companion to Shipboard Electrical Power Systems (CRC Press, 2011), by the same author.

Shipboard Electrical Power Systems addresses new developments in this growing field. Focused on the trend toward electrification to power commercial shipping, naval, and passenger vessels, this book helps new or experienced engineers master cutting-edge methods for power system design, control, protection, and economic use of power. Provides Basic Transferable Skills for Managing Electrical Power on Ships or on Land This groundbreaking book is the first volume of its kind to illustrate optimization of all aspects of shipboard

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electrical power systems. Applying author Mukund Patel's rare combination of industrial and educational work experiences and insight, it offers solutions to meet the increasing demand for large, fast, efficient, and reconfigurable ships to compete in international markets. For 30 years, Professor Patel was an engineer for companies including General Electric, Lockheed Martin, and Westinghouse Electric, and in the past 15 years he has been an engineering professor at the U.S. Merchant Marine Academy. That varied experience helped him zero in on the specialized multidimensional knowledge an engineer requires—and that is what sets his book apart. Compiles Critical, Hard-to-Find Information on Power System Design, Analysis, and Operation The global shortage of power engineers is not deterring countries from heavily investing in construction of new power plants and grids. Consequent growth in university electrical power programs is satisfying the demand for engineers, but novice graduates require accelerated understanding and practical experience before entering the thriving maritime segment. Ideal for readers with limited electrical experience, wide-ranging coverage includes power system basics, power generation, electrical machines, power distribution, batteries, and marine industry standards. This book is an invaluable tool for engineers working on ships, as well as in ports, industrial power plants, refineries, and other similar environments.

This book comprises select proceedings of the international conference ETAEERE 2020, and primarily focuses on renewable energy resources and smart grid

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technologies. The book provides valuable information on the technology and design of power grid integration on microgrids of green energy sources. Some of the topics covered include solar PV array, hybrid microgrid, daylight harvesting, green computing, photovoltaic applications, nanogrid applications, AC/DC/AC converter for wind energy systems, solar photovoltaic panels, PEM fuel cell system, and biogas run dual-fueled diesel engine. The contents of this book will be useful for researchers and practitioners working in the areas of smart grids and renewable energy generation, distribution, and management.

VLSI-Design for Non-Volatile Memories is intended for electrical engineers and graduate students who want to enter into the integrated circuit design world. Non-volatile memories are treated as an example to explain general design concepts. Practical illustrative examples of non-volatile memories, including flash types, are showcased to give insightful examples of the discussed design approaches. A collection of photos is included to make the reader familiar with silicon aspects. Throughout all parts of this book, the authors have taken a practical and applications-driven point of view, providing a comprehensive and easily understood approach to all the concepts discussed. Giovanni Campardo and Rino Micheloni have a solid track record of leading design activities at the STMicroelectronics Flash Division. David Novosel is President and founder of Intelligent Micro Design, Inc., Pittsburg, PA.

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Chapter 1: System Studies -- Chapter 2: Drawings and Diagrams -- Chapter 3: Substation Layouts -- Chapter 4: Substation Auxiliary Power Supplies -- Chapter 5: Current and Voltage Transformers -- Chapter 6: Insulators -- Chapter 7: Substation Building Services -- Chapter 8: Earthing and Bonding -- Chapter 9: Insulation Co-ordination -- Chapter 10: Relay Protection -- Chapter 11: Fuses and Miniature Circuit Breakers -- Chapter 12: Cables -- Chapter 13: Switchgear -- Chapter 14: Power Transformers -- Chapter 15: Substation and Overhead Line Foundations -- Chapter 16: Overhead Line Routing -- Chapter 17: Structures, Towers and Poles -- Chapter 18: Overhead Line Conductor and Technical Specifications -- Chapter 19: Testing and Commissioning -- Chapter 20: Electromagnetic Compatibility -- Chapter 21: Supervisory Control and Data Acquisition -- Chapter 22: Project Management -- Chapter 23: Distribution Planning -- Chapter 24: Power Quality- Harmonics in Power Systems -- Chapter 25: Power Qual ...

A Flash memory is a Non Volatile Memory (NVM) whose "unit cells" are fabricated in CMOS technology and programmed and erased electrically. In 1971, Frohman-Bentchkowsky developed a floating polysilicon gate transistor [1, 2], in which hot electrons were injected in the floating gate and removed by either Ultra-Violet (UV) internal photoemission or by Fowler Nordheim tunneling.

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This is the "unit cell" of EPROM (Electrically Programmable Read Only Memory), which, consisting of a single transistor, can be very densely integrated. EPROM memories are electrically programmed and erased by UV exposure for 20-30 mins. In the late 1970s, there have been many efforts to develop an electrically erasable EPROM, which resulted in EEPROMs (Electrically Erasable Programmable ROMs). EEPROMs use hot electron tunneling for program and Fowler-Nordheim tunneling for erase. The EEPROM cell consists of two transistors and a tunnel oxide, thus it is two or three times the size of an EPROM. Successively, the combination of hot carrier programming and tunnel erase was rediscovered to achieve a single transistor EEPROM, called Flash EEPROM. The first cell based on this concept has been presented in 1979 [3]; the first commercial product, a 256K memory chip, has been presented by Toshiba in 1984 [4]. The market did not take off until this technology was proven to be reliable and manufacturable [5]. This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for

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RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals. .

CE Marking for Low Voltage Directive is the essential reference for all manufacturers/ exporters of electronic products to the European Economic Area (EEA). In this one volume, you get the complete text of the Low-Voltage Directive, along with a step-by-step overview and explanation of the certification procedure. It presents everything you need to know about the requirements the Directive imposes on your electronic products. Specifically written for American manufacturers, it covers all the frequently asked questions about the Directive.

Comprehensive and easy-to-understand text, practical examples and well-organized diagrams and drawings make this volume an important new resource on meeting the requirements for compliance and getting your products to market in the EEA.

Appropriate for courses in electron flow devices, semiconductors, and electronics. This text addresses instructor concerns over attracting students to and retaining students in the electronics

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curricula. To combat the high levels of student intimidation and frustration caused by many electronics texts, these authors present material in small, manageable bites, using everyday metaphors to explain device behavior and using humor to make points.

A wickedly funny debut novel about a high-powered lawyer whose shockingly candid blog about life inside his firm threatens to destroy him. He's a hiring partner at one of the world's largest law firms.

Brilliant yet ruthless, he has little patience for associates who leave the office before midnight or steal candy from the bowl on his secretary's desk. He hates holidays and paralegals. And he's just started a weblog to tell the world about what life is really like at the top of his profession. Meet

Anonymous Lawyer—corner office, granite desk, and a billable rate of \$675 an hour. The summer is about to start, and he's got a new crop of law school interns who will soon sign away their lives for a six-figure salary at the firm. But he's also got a few problems that require his attention. There's The Jerk, his bitter rival at the firm, who is determined to do whatever it takes to beat him out for the chairman's job. There's Anonymous Wife, who is spending his money as fast as he can make it. And there's that secret blog he's writing, which is a perverse bit of fun until he gets an e-mail from someone inside the firm who knows he's its author. Written in the form of a

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blog, Anonymous Lawyer is a spectacularly entertaining debut that rips away the bland façade of corporate law and offers a telling glimpse inside a frightening world. Hilarious and fiendishly clever, Jeremy Blachman's tale of a lawyer who lives a lie and posts the truth is sure to be one of the year's most talked-about novels.

This book identifies the challenges, solutions, and opportunities offered by smart energy grids (SEGs) with regard to the storage and regulation of diversified energy sources such as photovoltaic, wind, and ocean energy. It provides a detailed analysis of the stability and availability of renewable sources, and assesses relevant socioeconomic structures. The book also presents case studies to maximize readers' understanding of energy grid management and optimization. Moreover, it offers guidelines on the design, implementation, and maintenance of the (SEG) for island countries.

The successful three volumes of Nineteenth Century Religious Thought in the West provide a fresh appraisal of the most important thinkers of that time. Soames essays centre on major figures of the period; others cover topics, trends and schools of thought between the French Revolution and the First World War.

Phenomenology was one of the twentieth century's major philosophical movements, and it continues to be a vibrant and widely studied subject today with

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relevance beyond philosophy in areas such as medicine and cognitive sciences. The Routledge Handbook of Phenomenology and Phenomenological Philosophy is an outstanding guide to this important and fascinating topic. Its focus on phenomenology's historical and systematic dimensions makes it a unique and valuable reference source. Moreover, its innovative approach includes entries that don't simply reflect the state-of-the-art but in many cases advance it. Comprising seventy-five chapters by a team of international contributors, the Handbook offers unparalleled coverage and discussion of the subject, and is divided into five clear parts: • Phenomenology and the history of philosophy • Issues and concepts in phenomenology • Major figures in phenomenology • Intersections • Phenomenology in the world. Essential reading for students and researchers in philosophy studying phenomenology, The Routledge Handbook of Phenomenology and Phenomenological Philosophy is also suitable for those in related disciplines such as psychology, religion, literature, sociology and anthropology. The terrorist attacks in Madrid and London underlined the fact that Europe is not spared from transnational jihadist terror and that its counter-terrorist efforts cannot be confined to remote regions like Afghanistan. On the contrary, European countries have become battle zones in a struggle

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that will remain a central moment of international relations in the years to come. This struggle poses a number of new challenges in diverse fields such as banking, information and communication technologies, or judicial co-operation and even though terrorism is no new phenomenon within the shores of Europe, both the Union and its member states have been struggling to find adequate approaches to it. In the edited book "Europe and Transnational Terrorism" a number of leading experts in the field of terrorism research assess the threat to Europe and analyze counter-terrorist policies at Union and member state level. The articles cover the threat of al-Qaeda and homegrown jihadist networks, the risk of terrorist attacks with weapons of mass destruction, the counter-terrorist policies of Great Britain and Germany, transatlantic co-operation in homeland security, the Union's efforts to combat terrorist financing, and the possibility of deterring terrorist acts.

A thoroughly updated introduction to electric machines and adjustable speed drives All machines have power requirements, and finding the right balance of economy and performance can be a challenge to engineers. Principles of Electric Machines with Power Electronic Applications provides a thorough grounding in the principles of electric machines and the closely related area of power electronics and adjustable speed drives.

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Designed for both students and professionals seeking a foundation in the fundamental structure of modern-day electric power systems from a technical perspective, this lucid, succinct guide has been completely revised and updated to cover: * The fundamental underpinnings of electromechanical energy conversion devices * Transformers * Induction machines * Synchronous machines * DC machines * Power electronic components, systems, and their applications to adjustable speed drives Enhanced by numerous solved problems, sample examinations and test sets, and computer-based solutions assisted by MATLAB scripts, this new edition of Principles of Electric Machines with Power Electronic Applications serves equally well as a practical reference and a handy self-study guide to help engineers maintain their professional edge in this essential field.

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