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Transmission and Distribution Electrical Engineering-Colin R. Bayliss 2012 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 ...

VLSI-Design of Non-Volatile Memories-Giovanni Campardo 2005-01-18 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.

Diagnosis and Treatment Planning Skills-Alan M. Schwitzer 2014-05-29 The Second Edition of Alan M. Schwitzer and Lawrence C. Rubin's Diagnosis and Treatment Planning Skills: A Popular Culture Casebook Approach comprehensively addresses the clinical thinking skills required in professional counseling settings through the innovative use of case examples drawn from popular culture. Fully revised to include DSM-5, the text begins with discussion of diagnosis, case conceptualization, and treatment planning, covering the interplay of individual clinical tools and their application in contemporary practice. Ten DSM-5 updated case illustrations follow, creating a streamlined new edition that engages students in a start-to-finish application of clinical tools.

Shipboard Propulsion, Power Electronics, and Ocean Energy-Mukund R. Patel 2012-02-17 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 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.

Advances in Automation and Robotics Research-Alexánder Martínez 2020-01-29 This book gathers the proceedings of the 2nd Latin American Congress on Automation and Robotics, held at Pontificia Universidad Javeriana de Cali, Colombia, on October 30th–November 1st, 2019. It presents papers from researchers, scientists, and engineers from academia and industry, and explores current exciting research applications and future challenges, mainly in Latin American countries. The book covers a wide range of research fields associated with automation and robotics encountered in engineering, scientific research, and practice, including: autonomous systems, multi-robot and multi-agent systems, industrial automation and robotics, process control, modeling and optimization, control theory, artificial intelligence, kinematic and dynamic analysis of robotic systems, computer vision, self-localization, mapping and navigation, instruments, sensing and sensor fusion, evolutionary, bio-inspired, micro/nano, and soft robotics, novel robot designs, haptics, human–robot interaction and interfaces, simulation procedures, experimental validations, and educational robotics.

5 Year Diary-Tamara Shopsin 2008-09 A blue-covered edition of the classic journal devotes a page to every day of a five-year time span and features illustrations by an artist whose work is regularly featured in The New York Times, in a volume that is complemented by a red ribbon bookmark and additional pages for recording literary and travel experiences.

Shipboard Electrical Power Systems-Mukund R. Patel 2011-12-15 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 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.

The Essential Colin Wilson-Colin Wilson 1985

Variable Speed Generators-Ion Boldea 2015-09-03 Variable Speed Generators, the second of two volumes in the Electric Generators Handbook, provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world. The book delves into the steady state, transients, control, and design of claw-pole-rotor synchronous, induction, permanent-magnet-(PM)-assisted synchronous, and switched reluctance starter alternators for electric hybrid vehicles. It discusses PM synchronous, transverse flux PM, and flux reversal PM generators for low-speed wind and hydro energy conversion. It also explores linear motion alternators for residential and spacecraft applications. Numerous design and control examples illustrate the exposition. Fully revised and updated to reflect the last decade’s worth of progress in the field, this Second Edition adds new sections that: Address the ride-through control of doubly fed induction generators under unbalanced voltage sags Consider the control of stand-alone doubly fed induction generators under unbalanced nonlinear loads Detail a stand-alone squirrel cage induction generator (SCIG) with AC output and a low-rating pulse-width modulated (PWM) converter Present a twin stator winding SCIG with 50 percent rating inverter and diode rectifier, and a dual stator winding induction generator with nested cage rotor Examine interior permanent magnet claw-pole-alternator systems for more vehicle braking energy recuperation, and high power factor Vernier PM generators Depict a PM-assisted reluctance synchronous motor/generator for an electric hybrid vehicle, and a double stator switched reluctance generator with segmented rotor Describe the grid to stand-alone transition motion-sensorless dual-inverter control of permanent magnet synchronous generators with asymmetrical grid voltage sags and harmonics filtering The promise of renewable, sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources. Variable Speed Generators, Second Edition supplies state-of-the-art tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs.

Aim High, Level 5-Tim Roberts 2011-02-17 Aim High will help your students succeed as language learners in the classroom, with their homework and also in exams. How will it do this? It builds students vocabulary knowledge through a structured and progressive approach. What does this mean? There are over 50 active vocabulary items in each unit, including words from the Oxford 3000TM. Students learn the meaning of new words but they also learn how and when to use them for themselves. And these are not just useful, everyday words.They're also introduced to expressions, idioms, phrasal verbs, and so on. Essential language for communicating well in English. As a teacher you'll want to help your students become autonomous learners. In Aim High there are lots of opportunities to prepare for this. In the Student's Book there's a 'Dictionary Corner', with exercises to help them towards learner autonomy. There's also a Literacy Corner to extend their vocabulary, focusing on selected readers of the right level. With theself-check and review boxes they can see how they're progressing for themselves. A Grammar Reference and Grammar Builder bring together all the grammar and vocabulary for the unit. These allow students to look back over grammar points and review what they have learned.

Power Semiconductor Drives-Shashi B. Dewan 1984-11-19 This book provides an analysis of the steady-state operation of both AC and DC drive systems, permitting specification of suitable convectors and machines. It covers all major topics in control design and selection and includes the most recent methods of system analysis.

Electronic Diesel Control (EDC)-Robert Bosch 2003-08-01 The familiar yellow Technical Instruction series from Bosch have long proved one of their most popular instructional aids. They provide a clear and concise overview of the theory of operation, component design, model variations, and technical terminology for the entire Bosch product line, and give a solid foundation for better diagnostics and servicing. Clearly written and illustrated with photos, diagrams and charts, these books are equally at home in the vocational classroom, apprentices toolkit, or enthusiasts fireside chair. If you own a car, especially a European one, you have Bosch components and systems. Covers:-Lambda closed-loop control for passenger car diesel engines-Functional description-Triggering signals

Legacy of the Heart-Wayne Muller 1993-02-01 A gentle, entirely new approach to uncovering a source of spiritual strength hidden in the scars of childhood. Wayne Muller brings together the teachings of many different religions and spiritual traditions in a healing program that will appeal to readers of The Road Less Traveled and Homecoming.

Principles of Electric Machines with Power Electronic Applications-Mohamed E. El-Hawary 2002-06-25 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. 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.

Pro Data Visualization Using R and JavaScript-Tom Barker 2013-06-17 Pro Data Visualization using R and JavaScript makes the R language approachable, and promotes the idea of data gathering and analysis. You'll see how to use R to interrogate and analyze your data, and then use the D3 JavaScript library to format and display that data in an elegant, informative, and interactive way. You will learn how to gather data effectively, and also how to understand the philosophy and implementation of each type of chart, so as to be able to represent the results visually. With the popularity of the R language, the art and practice of creating data visualizations is no longer the preserve of mathematicians, statisticians, or cartographers. As technology leaders, we can gather metrics around what we do and use data visualizations to communicate that information. Pro Data Visualization using R and JavaScript combines the power of the R language with the simplicity and familiarity of JavaScript to display clear and informative data visualizations. Gathering and analyzing empirical data is the key to truly understanding anything. We can track operational metrics to quantify the health of our products in production. We can track quality metrics of our projects, and even use our data to identify bad code. Visualizing this data allows anyone to read our analysis and easily get a deep understanding of the story the data tells. What you’ll learn A rich understanding of how to gather, and analyze empirical data How to tell a story with data using data visualizations What types of data visualizations are best to use for the story that you want to tell with your data A comprehensive introduction to the R language, covering all the essentials Exploration of how to construct interactive data visualizations using JavaScript and JavaScript libraries Who this book is for Developers at all levels interested in data visualization, beginning to intermediate engineering managers, statisticians, mathematicians, economists and any others interested in data visualization. Table of Contents Techniques for Data Visualization The R Language A Deeper Dive into R Data Visualization with D3 Visualizing Spatial Information from Access Logs (Data Maps) Visualizing Defects over Time (Time Series) Bar Charts Correlation Analysis with Team Dynamics (Scatterplot and Bubble Chart) Balancing Delivery with Quality (Parallel Coordinates Chart)

Correct Your English Errors-Tim Collins 2012-03-09 Speak and write English as if it were your native tongue! Are you tired of making the same mistakes in English again and again? End the bad habits that can leave the people you talk to confused. Correct Your English Errors warns you of hundreds of typical errors learners make and explains the reasons behind the mistakes, so you can correct yourself in the future. Improve your English skills with this fun and comprehensive guide and avoid all the common mistakes, such as: Mispronouncing and misspelling words Applying your native language's grammar patterns to English Putting verbs in the wrong tense Using incorrect prepositions in expressions Confusing subject-verb agreement Correct Your English Errors offers exercises covering all parts of grammar and provides review passages to check that you are error-free. Soon, biting your nails will be your only bad habit!

To Dance with Kings-Rosalind Laker 2007 The lives and destinies of four generations of determined women are set against the splendor of Versailles through the reigns of France's most spectacular Bourbon kings, from Marguerite, the peasant girl who becomes part of the royal court of the Sun King, to Rose, who becomes lady-in-waiting and confidante to Marie Antoinette. Reprint. 40,000 first printing.

Electric Power Applications of Fuzzy Systems-M. E. El-Hawary

1998-06-15 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.

Rectifiers, Cycloconverters, and AC Controllers-Thomas H. Barton 1994 This is an in-depth and practical analysis of the behaviour of rectifiers, cycloconverters, and a.c. controllers, the fundamentals of power electronics. With appropriate selection of material this book can be used by undergraduates, postgraduates, and professionals alike. These devices aresupplied by a standard a.c. system, are known as naturally commutated, and are the subject of a detailed quantitative study in this book. All the material is extensively illustrated with numerical examples and graphs which in themselves are a great source of information for everyone working in thisfield.

Analysis of Faulted Power Systems-Paul M. Anderson 1995-07-10 This classic text offers you the key to understanding short circuits, open conductors and other problems relating to electric power systems that are subject to unbalanced conditions. Using the method of symmetrical components, acknowledged expert Paul M. Anderson provides comprehensive guidance for both finding solutions for faulted power systems and maintaining protective system applications. You'll learn to solve advanced problems, while gaining a thorough background in elementary configurations. Features you'll put to immediate use: Numerous examples and problems, clear, concise notation, analytical simplifications, Matrix methods applicable to digital computer technology, Extensive appendices. Features you?ll put to immediate use include: Numerous examples and problems Clear, concise notation Analytical simplifications Matrix methods applicable to digital computer technology Extensive appendices Software developed especially for solving the many problems associated with the matrix of complex numbers

Encountering the World of Islam-Keith E. Swartley 2015-11-03 Discover God's Heart for Muslims: Investigate Islam through this positive and hopeful 640-page book. Encountering the World of Islam explores the Muslim world and God's plan for Muslims. Read from a collection of writings about the life of Muhammad, the history of Islamic civilization, Islamic beliefs, Muslims today, and the everyday lives of Muslims from Morocco to Indonesia. Gain insight from 80 different practitioners into diverse Muslim cultures and worldviews as well as Christian outreach toward Muslims, our response to Islam, and prayer for the Muslim world. This book is used as the textbook for the Encountering the World of Islam course. Revised, updated, and expanded for 2014.Fifty-seven new articles, highlights, maps, and tables.Fully indexed and cross-referenced.Over 100 additional pages of free online articles at the companion website.Features: Reading Assignments: Each lesson includes an average of 35 pages of reading, plus additional articles online (available after free registration for access). Highlights: Brief readings focusing on specific topics of interest to the reader are found throughout the book, including: Concepts: Important biblical or cultural concepts the student should know.Outreach: Appropriate ways for reaching out to Muslims.People Groups: Overviews of the major ethnic Muslim affinity blocks, illustrated with descriptions of characteristic people groups from each block.Pray Now: Guides to praying for Muslims within each lesson.Quotes: Quotations from "the experts" illustrating important lesson points.Qur'an: Important verses and concepts from the Qur'an.Stories: Narrative accounts from the lives of Muslims and Muslim-background believers.Women: Specific issues that affect the lives of Muslim women.Ponder This: Introductory questions help set the mental stage for entering each lesson. Explore: Recommendations for deeper exploration of lesson topics. Discussion Questions: Application questions to use in class activities, provide ideas for forum postings, or simply serve as points for individual reflection. Learn More: Additional activities which may be assigned by your professor or completed just for fun, including reading, watching, praying, visiting, eating, listening, meeting, shopping, and browsing the internet. Glossary: Unfamiliar terms or concepts are cross-referenced and included in the 40-page glossary. Pronunciation Guide: Help with pronouncing non-English words found throughout the text. Common Word List: Key words that occur frequently throughout the book. Illustrations: 110 illustrations, maps, and tables. Index: Comprehensive and extensively cross-referenced topical index, as well as separate Bible and Qur'an indices. Bibliography: Complete, scholarly collection of the authors, readings, and highlights that appear in the book. Resources for teaching: Example lectures and PowerPoint presentations for the materials in Encountering the World of Islam are available in the Instructor Resources area of our companion website.

How to Build a Better Vocabulary-Maxwell Nurnberg 1989-08-01 This is the entrancingly entertaining yet amazingly effective guide that shows you how to know the meaning of words that you have never seen or heard before, learn the history of words so that they come alive for you, master an invaluable and permanent technique of word-viewing within 30 days. This is the one book that makes you love to learn.

Power System Planning-R. L. Sullivan 1977

Vector Control of AC Drives-SyedA. Nasar 2017-11-22 Alternating current (AC) induction and synchronous machines are frequently used in variable speed drives with applications ranging from computer peripherals, robotics, and machine tools to railway traction, ship propulsion, and rolling mills. The notable impact of vector control of AC drives on most traditional and new technologies, the multitude of practical configurations proposed, and the absence of books treating this subject as a whole with a unified approach were the driving forces behind the creation of this book. Vector Control of AC Drives examines the remarkable progress achieved worldwide in vector control from its introduction in 1969 to the current technology. The book unifies the treatment of vector control of induction and synchronous motor drives using the concepts of general flux orientation and the feed-forward (indirect) and feedback (direct) voltage and current vector control. The concept of torque vector control is also introduced and applied to all AC motors. AC models for drive applications developed in complex variables (space phasors), both for induction and synchronous motors, are used throughout the book. Numerous practical implementations of vector control are described in considerable detail, followed by representative digital simulations and test results taken from the recent literature. Vector Control of AC Drives will be a welcome addition to the reference collections of electrical and mechanical engineers involved with machine and system design.

Modern Political Theory-Shanti Prasad Varma 1982

Linear Electric Machines, Drives, and MAGLEVs Handbook-Ion Boldea 2017-12-19 Based on author Ion Boldea’s 40 years of experience and the latest research, Linear Electric Machines, Drives, and Maglevs Handbook provides a practical and comprehensive resource on the steady improvement in this field. The book presents in-depth reviews of basic concepts and detailed explorations of complex subjects, including classifications and practical topologies, with sample results based on an up-to-date survey of the field. Packed with case studies, this state-of-the-art handbook covers topics such as modeling, steady state, and transients as well as control, design, and testing of linear machines and drives. It includes discussion of types and applications—from small compressors for refrigerators to MAGLEV transportation—of linear electric machines. Additional topics include low and high speed linear induction or synchronous motors, with and without PMs, with progressive or oscillatory linear motion, from topologies through modeling, design, dynamics, and control. With a breadth and depth of coverage not found in currently available references, this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R&D and testing of innovative solutions to new industrial challenges in linear electric motion/energy automatic control.

Flash Memories-Paulo Cappelletti 2013-11-27 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 folating polysilicon gate tran sistor [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. This is the "unit cell" of EPROM (Electrically Pro grammable 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].

Mechanics of Machines-William Cleghorn 2014-08-14 Mechanics of Machines is designed for undergraduate courses in kinematics and dynamics of machines. It covers the basic concepts of gears, gear trains, the mechanics of rigid bodies, and graphical and analytical kinematic analyses of planar mechanisms. In addition, the text describes a procedure for designing disc cam mechanisms, discusses graphical and analytical force analyses and balancing of planar mechanisms, and illustrates common methods for the synthesis of mechanisms. Each chapter concludes with a selection of problems of varying length and difficulty. SI Units and US Customary Units are employed. An appendix presents twenty-six design projects based on practical, real-world engineering situations. These may be ideally solved using Working Model software.

Synchronous Generators-Ion Boldea 2015-09-03 Synchronous Generators, the first of two volumes in the Electric Generators Handbook, offers a thorough introduction to electrical energy and electricity generation, including the basic principles of electric generators. The book devotes a chapter to the most representative prime mover models for transients used in active control of various generators. Then, individual chapters explore large- and medium-power synchronous generator topologies, steady state, modeling, transients, control, design, and testing. Numerous case studies, worked-out examples, sample results, and illustrations highlight the concepts. Fully revised and updated to reflect the last decade’s worth of progress in the field, this Second Edition adds new sections that: Discuss high-power wind generators with fewer or no permanent magnets (PMs) Cover PM-assisted DC-excited salient pole synchronous generators Present multiphase synchronous machine inductances via the winding function method Consider the control of autonomous synchronous generators Examine additional optimization design issues Illustrate the optimal design of a large wind generator by the Hooke–Jeeves method Detail the magnetic equivalent circuit population-based optimal design of synchronous generators Address online identification of synchronous generator parameters Explain the small-signal injection online technique Explore line switching (on or off) parameter identification for isolated grids Describe synthetic back-to-back load testing with inverter supply The promise of renewable, sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources. Synchronous Generators, Second Edition supplies state-of-the-art tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs.

Contemporary Fashion Illustration Techniques-Naoki Watanabe 2009-06-01 The primary skill needed by anyone who works in fashion is the ability to convey—to clients and the general public alike—images of the designs. The impression given to the viewer depends on whether the fashion design drawings are good. Contemporary Fashion Illustration Techniques thoroughly describes the basics of fashion illustration, and covers the latest trends such as vivid images, sprightly movement, and garment material texture. After all, fashion drawing is not simply about sketching a body and face; only when you accurately reproduce the garments and their colors can the designs truly come to life.

Control in Power Electronics-Marian P. Kazmierkowski 2002-08-30 The authors were originally brought together to share research and applications through the international Danfoss Professor Programme at Aalborg University in Denmark. Personal computers would be unwieldy and inefficient without power electronic dc supplies. Portable communication devices and computers would also be impractical. High-performance lighting systems, motor controls, and a wide range of industrial controls depend on power electronics. In the near future we can expect strong growth in automotive applications, dc power supplies for communication systems, portable applications, and high-end converters. We are approaching a time when all electrical energy will be processed and controlled through power electronics somewhere in the path from generation to end use. The most up-to-date information available is presented in the text Written by a world renowned leader in the field

Making It Right-Rian Van Der Merwe 2014-07-24 Product management is one of the most exhausting, exhilarating, stressful, and rewarding careers out there. It's not for the faint of heart. It's for people who want to move mountains. It swallows some whole, but others derive endless invigoration and passion from the pace and the impact and the glory and the huge potential for failure as well as success. There's no other job like it, and this is a book to help you make it your job.The role of a product manager goes by many different names — and if that's not reason enough to be confused, some companies define product manager completely differently from how it's understood elsewhere. We sometimes get stuck in our quest to define the damn thing, but in the case of product management, it's effort well spent, because it's quite the jungle out there.

Photogrammetric Computer Vision-Wolfgang Förstner 2016-10-04 This textbook offers a statistical view on the geometry of multiple view analysis, required for camera calibration and orientation and for geometric scene reconstruction based on geometric image features. The authors have backgrounds in geodesy and also long experience with development and research in computer vision, and this is the first book to present a joint approach from the converging fields of photogrammetry and computer vision. Part I of the book provides an introduction to estimation theory, covering aspects such as Bayesian estimation, variance components, and sequential estimation, with a focus on the statistically sound diagnostics of estimation results essential in vision metrology. Part II provides tools for 2D and 3D geometric reasoning using projective geometry. This includes oriented projective geometry and tools for statistically optimal estimation and test of geometric entities and transformations and their relations, tools that are useful also in the context of uncertain reasoning in point clouds. Part III is devoted to modelling the geometry of single and multiple cameras, addressing calibration and orientation, including statistical evaluation and reconstruction of corresponding scene features and surfaces based on geometric image features. The authors provide algorithms for various geometric computation problems in vision metrology, together with mathematical justifications and statistical analysis, thus enabling thorough evaluations. The chapters are self-contained with numerous figures and exercises, and they are supported by an appendix that explains the basic mathematical notation and a detailed index. The book can serve as the basis for undergraduate and graduate courses in photogrammetry, computer vision, and computer graphics. It is also appropriate for researchers, engineers, and software developers in the photogrammetry and GIS industries, particularly those engaged with statistically based geometric computer vision methods.

MARRIAGE AT HIS CONVENIENCE-Jacqueline Baird 2019-08-01 Amber, a student, and Lukas, the CEO of a huge corporation, fell in love at first sight and began dating. She adapted to match his tastes, becoming an elegant, mature woman. But one day he told her he was going to marry someone else and broke up with her. He said she wasn’t wife material, that she was too sexy. She was only worthy of being his mistress!

Permanent-magnet and Brushless DC Motors-Takashi Kenjō 1985 Small electric motors are crucial to the manufacture of industrial robots, numerically controlled machines, and computer peripherals such as disk drives and printers. In this handbook, Dr. Kenjo considers two of the most important small motors, permanent-magnet and brushless DC motors, explaining how to select the most suitable motor for the the intended application and how to design the drive circuitry. The book provides clear descriptions of the basic machine structure, the constructional relationships between conventional and brushless DC machines, and the drive and control circuitry. Generously illustrated and easy-to-follow.

Power Electronic Converters-Teuvo Suntio 2018-01-04 Filling the need for a reference that explains the behavior of power electronic converters, this book provides information currently unavailable in similar texts on power electronics. Clearly organized into four parts, the first treats the dynamics and control of conventional converters, while the second part covers the dynamics and control of DC-DC converters in renewable energy applications, including an introduction to the sources as well as the design of current-fed converters applying duality-transformation methods. The third part treats the dynamics and control of three-phase rectifiers in voltage-sourced applications, and the final part looks at the dynamics and control of three-phase inverters in renewable-energy applications. With its future-oriented perspective and advanced, first-hand knowledge, this is a prime resource for researchers and practicing engineers needing a ready reference on the design and control of power electronic converters.

Perfect Opposite-Zoya Tessi 2014-05-18 Their wishes were simple and modest. Fate had other things in store though, and she can be a real bitch sometimes.- All he wanted was to get the job done and somehow to endure those long months playing nanny to a spoiled little rich girl. Without

strangling her with his bare hands in the process. Well, it is going to be much easier said than done.- All she wanted was to escape the past and live like any other nineteen-year-old girl. Her plan definitely didn't include the arrogant, tattooed savage, with his awful mohawk hair and lack of social graces, whose only mission was to stick real close and mess up her life.But, people aren't always what they seem to be, are they?

Dynamics of Saturated Electric Machines-Vlado Ostovic 2012-12-06 This book is a result of the author's work which was initiated about a decade ago and which, in the meantime, has resulted in his Ph.D. Thesis and several technical papers. The book deals with accurate modeling of electric machines during transient and steady states, a topic which has been usually avoided in the literature. The modeling techniques herein take into account all machine peculiarities, such as the type and connection of its windings, slotting, and saturation in the iron core. A special emphasis in the book is given to the exact physical interpretation of all phenomena which influence the machine's transient behavior. Besides the Introduction, the book has five chapters. The second chapter describes basic concepts of the magnetic equivalent circuit theory and has examples of magnetic equivalent circuits of several types of machines with their node potential equations. In the third chapter the transform matrices w' and w" of A.C. wind ings are derived. These matrices playa very important role in the magnetic equivalent circuit theory because they connect the quantities from the ma chine's magnetic equivalent circuit, branch fluxes, and mmfs with the ma chine's phase currents and fluxes.

The Mind Games-Lori Brighton 2015-12-18 For years Cameron has hidden behind a façade of normalcy, warned there were those who would do her harm should they uncover the truth...that she is a mind reader. She never imagined her biggest threat would come from the parents she thought dead. Cameron's life changes dramatically when she's abducted by her mother, a woman she hasn't seen in thirteen years. Even more shocking is the truth... Cameron's mother leads a group of rogue mind readers and their number one enemy is Cameron's very own father.Everyone has their own agenda and Cameron is caught in the middle, unsure who to trust. But one thing is clear, war looms on the horizon and in order to save those she loves, Cameron must not only pick sides, but learn to believe in herself and her powers.This book contains kissing and cursing. It is best for ages 14 and up. Books in the Mind Readers Series:Book 1: The Mind ReadersBook 2: The Mind ThievesBook 3: The Mind GamesFinal Novella: The Mind Keepers

Microelectronics-Roy A. Colclaser 1980