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Systems, Controls, Embedded Systems, Energy, and Machines PHI Learning Pvt. Ltd.  
Gold Medal Winner; Philanthropy, Charities, and Nonprofits; 2012 Axiom Business Book Awards Giving 2.0 is the ultimate resource for anyone navigating the seemingly infinite ways one can give. The future of philanthropy is far more than just writing a check, and Giving 2.0 shows how individuals of every age and income level can harness the power of technology, collaboration, innovation, advocacy, and social entrepreneurship to take their giving to the next level and beyond. Major gifts may dominate headlines, but the majority of giving still comes from individual households—ordinary people with extraordinary generosity. Even in 2009, at a time of deep recession, individual giving averaged almost \$2,000 per household and drove 82% of the \$300 billion donated that same year. Based on her vast experience as a philanthropist, academic, volunteer, and social innovator, Arrillaga-Andreessen shares the most effective techniques she herself pilots and studies and a vast portfolio of lessons learned during her lifetime of giving. Featuring dozens of stories on innovative and powerful methods of how individuals give time, money, and expertise—whether volunteering and fundraising, leveraging technology and social media, starting a giving circle, fund, foundation, or advocacy group, or aspiring to create greater social impact—Giving 2.0 shows readers how they can renew, improve, and expand their giving and reach their fullest potential. A practical,

entertaining, and inspiring call to action, Giving 2.0 is an indispensable tool for anyone passionate about creating change in our world.

Power System Harmonic Analysis Springer Science & Business Media  
The development of power semiconductors with greater ratings and improved characteristics has meant that the power industry has become more willing to develop new converter configurations. These new configurations take advantage of the higher controllability and switching frequencies of the new devices. The next few years will decide which of the proposed technologies will dominate future power transmission systems. Flexible Power Transmission is a comprehensive guide to the high voltage direct current (HVDC) options available, helping the reader to make informed decisions for designing future power transmission systems. The book includes: a full description of the principles and components in existing converter technology, as well as alternative proposals for self-commutating conversion; A review of the state of power semiconductors suited to HVDC transmission and present proposals for multi-level HVDC transmission. a detailed overview of the flexible HVDC methods for improving controllability and increasing power transfer capability in electrical power systems. up-to-date information on thyristor-based HVDC technology. coverage of new pulse width modulation (PWM) transmission technology and multi-level voltage source conversion (VSC) and current source conversion (CSC). An excellent reference for professional power engineers, Flexible Power Transmission is also a useful guide for power system researchers as well as lecturers and students in power systems and power electronics disciplines.

Getting Beyond Better John Wiley & Sons

In Leading Matters, current Chairman of Alphabet (Google's parent company), former President of Stanford University, and "Godfather of Silicon Valley," John L. Hennessy shares the core elements of leadership that helped him become a successful tech entrepreneur, esteemed academic, and venerated administrator. Hennessy's approach to leadership is

laser-focused on the journey rather than the destination. Each chapter in Leading Matters looks at valuable elements that have shaped Hennessy's career in practice and philosophy. He discusses the pivotal role that humility, authenticity and trust, service, empathy, courage, collaboration, innovation, intellectual curiosity, storytelling, and legacy have all played in his prolific, interdisciplinary career. Hennessy takes these elements and applies them to instructive stories, such as his encounters with other Silicon Valley leaders including Jim Clark, founder of Netscape; Condoleezza Rice, former U.S. Secretary of State and Stanford provost; John Arrillaga, one of the most successful Silicon Valley commercial real estate developers; and Phil Knight, founder of Nike and philanthropist with whom Hennessy cofounded Knight-Hennessy Scholars at Stanford University. Across government, education, commerce, and non-profits, the need for effective leadership could not be more pressing. This book is essential reading for those tasked with leading any complex enterprise in the academic, not-for-profit, or for-profit sector.

Self-Commutating Converters for High Power Applications  
John Wiley & Sons

Adapted from an updated version of the author's classic Electric Power System Design and Analysis, with new material designed for the undergraduate student and professionals new to Power Engineering. The growing importance of renewable energy sources, control methods and mechanisms, and system restoration has created a need for a concise, comprehensive text that covers the concepts associated with electric power and energy systems. Introduction to Electric Power Systems fills that need, providing an up-to-date introduction to this dynamic field. The author begins with a discussion of the modern electric power system, centering on the technical aspects of power

generation, transmission, distribution, and utilization. After providing an overview of electric power and machine theory fundamentals, he offers a practical treatment-focused on applications-of the major topics required for a solid background in the field, including synchronous machines, transformers, and electric motors. He also furnishes a unique look at activities related to power systems, such as power flow and control, stability, state estimation, and security assessment. A discussion of present and future directions of the electrical energy field rounds out the text. With its broad, up-to-date coverage, emphasis on applications, and integrated MATLAB scripts, *Introduction to Electric Power Systems* provides an ideal, practical introduction to the field-perfect for self-study or short-course work for professionals in related disciplines.

#### POWER SYSTEM OPTIMIZATION John Wiley & Sons

The definitive textbook for Power Systems students, providing a grounding in essential power system theory while also focusing on practical power engineering applications. *Electric Power Systems* has been an essential book in power systems engineering for over thirty years. Bringing the content firmly up-to-date whilst still retaining the flavour of Weedy's extremely popular original, this Fifth Edition has been revised by experts Nick Jenkins, Janaka Ekanayake and Goran Strbac. This wide-ranging text still covers all of the fundamental power systems subjects but is now expanded to cover increasingly important topics like climate change and renewable power generation. Updated material includes an analysis of today's markets and an examination of the current economic state of power generation. The physical limits of power systems equipment - currently being tested by the huge demand for power - is explored, and greater attention is paid to power electronics, voltage source and power system components, amongst a host of other updates and revisions. Supplies an updated chapter on power system economics and management issues and extended coverage of power system components. Also expanded information on power electronics and voltage source, including VSC HVDC and FACTS. Updated to take into account the challenges posed by different world markets, and pays greater attention to up-to-date renewable power generation methods such as wind power. Includes modernized presentation and greater use of examples to appeal to today's students, also retains the end of chapter questions to assist with the learning process. Also shows

students how to apply calculation techniques.

#### Making Money Moral Springer Science & Business Media

In two editions spanning more than a decade, *The Electrical Engineering Handbook* stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. *Circuits, Signals, and Speech and Image Processing* presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. *Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar* delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics. *Sensors, Nanoscience, Biomedical Engineering, and Instruments* provides thorough coverage of sensors, materials and nanoscience, instruments and measurements, and biomedical systems and devices, including all of the basic information required to thoroughly understand each area. It explores the emerging fields of sensors, nanotechnologies, and biological effects. *Broadcasting and Optical Communication Technology* explores communications, information theory, and devices, covering all of the basic information needed for a thorough understanding of these areas. It also examines the emerging areas of adaptive estimation and optical communication. *Computers, Software Engineering, and Digital Devices* examines digital and logical devices, displays, testing, software, and computers, presenting the fundamental concepts needed to ensure a thorough understanding of each field. It treats the emerging fields of programmable logic, hardware description languages, and parallel computing in

detail. *Systems, Controls, Embedded Systems, Energy, and Machines* explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, *The Electrical Engineering Handbook, Third Edition* remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest incarnation features a protective slipcase, which helps you stay organized without overwhelming your bookshelf. It is an attractive addition to any collection, and will help keep each volume of the Handbook as fresh as your latest research.

#### Mathematics Framework for California Public Schools John Wiley & Sons

This book provides rigorous discussions, case studies, and recent developments in the emerging areas of a control system, especially load frequency control, wide-area monitoring, control and instrumentation, optimization, intelligent control, energy management system, SCADA systems, etc. The readers would be benefitted from enhancing their knowledge and skills in the domain areas. Also, this book may help the readers in developing new and innovative ideas. The book can be a valuable reference for researchers and professionals interested in developments in the control system.

#### **Advanced Solutions in Power Systems** Springer Nature

Harmonic distortion problems include equipment overheating, motor failures, capacitor failure and inaccurate power metering. The topic of power system harmonics was covered for the first time 20 years ago and the first edition has become a standard reference work in this area. Unprecedented developments in power electronic devices and their integration at all levels in the power system require a new look at the causes and effects of these problems, and the state of hardware and software available for harmonic assessment. Following the successful first edition, this second edition of *Power System Harmonics* maintains the

practical approach to the subject and discusses the impact of advanced power electronic technology on instrumentation, simulation, standards and active harmonic elimination techniques. Features include: A new chapter on modern digital instrumentation techniques. Added sections on active filters and modern distorting devices such as FACTS devices, multilevel conversion, current source, voltage source inverters and turn-OFF-related power electronic devices. References to international standards for harmonics and inter-harmonics. Numerical examples of technique application. Offering a comprehensive understanding of power systems, this book is an asset to power engineers involved in the planning, design and operation of power system generation, transmission and distribution. Researchers and postgraduate students in the field will also benefit from this useful reference.

**Power System Restructuring and Deregulation** John Wiley & Sons  
Egyptian hieroglyphs, Chinese scrolls, and Ayurvedic literature record physicians administering aromatic oils to their patients. Today society looks to science to document health choices and the oils do not disappoint. The growing body of evidence of their efficacy for more than just scenting a room underscores the need for production standards, quality control parameters for raw materials and finished products, and well-defined Good Manufacturing Practices. Edited by two renowned experts, the Handbook of Essential Oils covers all aspects of essential oils from chemistry, pharmacology, and biological activity, to production and trade, to uses and regulation. Bringing together significant research and market profiles, this comprehensive handbook provides a much-needed compilation of information related to the development, use, and marketing of essential oils, including their chemistry and biochemistry. A select group of authoritative experts explores the historical, biological, regulatory, and microbial aspects. This reference also covers sources, production, analysis, storage, and transport of oils as well as aromatherapy, pharmacology, toxicology, and metabolism. It includes discussions of biological activity testing, results of antimicrobial and antioxidant tests, and penetration-enhancing activities useful in drug delivery. New information on essential oils may lead to an increased understanding of their multidimensional uses and better, more ecologically friendly production methods. Reflecting the immense developments in scientific knowledge available on essential oils, this book brings multidisciplinary coverage of essential oils into one all-inclusive resource.

**Power System Harmonics** John Wiley & Sons

Quality of power supply is now a major issue worldwide making harmonic analysis an essential element in power system planning and design. Power System Harmonic Analysis presents novel analytical and modelling tools for the assessment of components and systems, and their interactions at harmonic frequencies. The recent

proliferation of power electronic equipment is a significant source of harmonic distortion and the authors present effective techniques to tackle this real engineering problem. Features include: Introduction to the main harmonic modelling philosophies Analysis of the behaviour of harmonic sources, stressing the interaction of ac/dc converters with the power system Information showing the reader how to predict accurately the levels of voltage and current harmonics throughout the power system Explanation of the techniques currently used for the prediction of harmonic content and the more advanced algorithms recently developed to determine both characteristic and uncharacteristic harmonic levels Description of methods to facilitate accurate assessment of harmonic sources and precise harmonic flow analysis Practical guidance on the prediction of unstable conditions and uncharacteristic harmonics Presenting effective techniques for the analysis and resolution of harmonic interactions, this valuable book will be an asset to engineers and researchers involved in the planning, design and operation of power systems. Power System Harmonic Analysis will also serve as a useful reference for postgraduate students following courses in power systems and power electronics disciplines.

**Building Software for Simulation** John Wiley & Sons

The simulation of electromagnetic transients is a mature field that plays an important role in the design of modern power systems. Since the first steps in this field to date, a significant effort has been dedicated to the development of new techniques and more powerful software tools. Sophisticated models, complex solution techniques and powerful simulation tools have been developed to perform studies that are of supreme importance in the design of modern power systems. The first developments of transients tools were mostly aimed at calculating over-voltages. Presently, these tools are applied to a myriad of studies (e.g. FACTS and Custom Power applications, protective relay performance, simulation of smart grids) for which detailed models and fast solution methods can be of paramount importance. This book provides a basic understanding of the main aspects to be considered when performing electromagnetic transients studies, detailing the main applications of present electromagnetic transients (EMT) tools, and discusses new developments for enhanced simulation capability. Key features: Provides up-to-date information on solution techniques and software capabilities for simulation of electromagnetic transients. Covers key aspects that can expand the capabilities of a transient software tool (e.g. interfacing techniques) or speed up transients simulation (e.g. dynamic model averaging). Applies EMT-type tools to a wide spectrum of studies that range from fast electromagnetic transients to slow electromechanical transients, including power electronic

applications, distributed energy resources and protection systems. Illustrates the application of EMT tools to the analysis and simulation of smart grids.

**Control Applications in Modern Power Systems** John Wiley & Sons

The restructuring and deregulation of the power utility industry is resulting in significant competitive, technological and regulatory changes. Independent power producers, power marketers and brokers have added a new and significant dimension to the task of maintaining a reliable electric system. Power System Restructuring and Deregulation provides comprehensive coverage of the technological advances, which have helped redesign the ways in which utility companies manage their business. With the aid of practical case studies, an international panel of contributors address the most up to date problems and their solutions in a cohesive manner, making this book indispensable to graduates and engineers in the power industry field. Presents state of the art techniques in power industry restructuring Includes applications of new technology in power industry deregulation Includes practical examples of changes in load forecasting techniques and methods International contributors offer a global perspective detailing power utility restructuring and deregulation from various countries

**Giving 2.0** John Wiley & Sons

Electromagnetic transients simulation (EMTS) has become a universal tool for the analysis of power system electromagnetic transients in the range of nanoseconds to seconds. This book provides a thorough review of EMTS and many simple examples are included to clarify difficult concepts. This book will be of particular value to advanced engineering students and practising power systems engineers.

**Switching in Electrical Transmission and Distribution Systems** John Wiley & Sons

The first book to provide comprehensive coverage of FACTS power systems modeling and simulation. \* Detailed coverage of the development of FACTS controllers and guidance on the selection of appropriate equipment \* Computer modelling examples of the FACTS controllers for steady-state and transient stability systems \* Numerous case studies and practical examples

**Power System Dynamics** Stanford University Press

Who drives transformation in society? How do they do it? In this compelling book, strategy guru Roger L. Martin and Skoll Foundation President and CEO Sally R. Osberg describe how social entrepreneurs target systems that exist in a stable but unjust equilibrium and transform them into entirely new, superior, and sustainable equilibria. All of these leaders--call them disrupters, visionaries, or changemakers--develop, build,

and scale their solutions in ways that bring about the truly revolutionary change that makes the world a fairer and better place. The book begins with a probing and useful theory of social entrepreneurship, moving through history to illuminate what it is, how it works, and the nature of its role in modern society. The authors then set out a framework for understanding how successful social entrepreneurs actually go about producing transformative change. There are four key stages: understanding the world; envisioning a new future; building a model for change; and scaling the solution. With both depth and nuance, Martin and Osberg offer rich examples and personal stories and share lessons and tools invaluable to anyone who aspires to drive positive change, whatever the context. *Getting Beyond Better* sets forth a bold new framework, demonstrating how and why meaningful change actually happens in the world and providing concrete lessons and a practical model for businesses, policymakers, civil society organizations, and individuals who seek to transform our world for good.

*Harmonics and Power Systems* John Wiley & Sons

Power system modelling and scripting is a quite general and ambitious title. Of course, to embrace all existing aspects of power system modelling would lead to an encyclopedia and would be likely an impossible task. Thus, the book focuses on a subset of power system models based on the following assumptions: (i) devices are modelled as a set of nonlinear differential algebraic equations, (ii) all alternate-current devices are operating in three-phase balanced fundamental frequency, and (iii) the time frame of the dynamics of interest ranges from tenths to tens of seconds. These assumptions basically restrict the analysis to transient stability phenomena and generator controls. The modelling step is not self-sufficient. Mathematical models have to be translated into computer programming code in order to be analyzed, understood and “experienced”. It is an object of the book to provide a general framework for a power system analysis software tool and hints for filling up this framework with versatile programming code. This book is for all students and researchers that are looking for a quick reference on power system models or need some guidelines for starting the challenging adventure of writing their own code.

*Electromechanical Energy Devices and Power Systems* Harvard Business Review Press

Joint-Time Frequency (JTFA) is a new signal processing technique in which signals are analyzed in both the time domain and the frequency domain simultaneously. This book provides a practical, comprehensive introduction to this hot new signal analysis method, complete with a demo

disk of National Instrument's Joint Time-Frequency Analyzer containing dozens of samples of real JFTA applications.

**Electric Power Systems** University of Pennsylvania Press

*Building Software for Simulation* A unique guide to the design and implementation of simulation software This book offers a concise introduction to the art of building simulation software, collecting the most important concepts and algorithms in one place. Written for both individuals new to the field of modeling and simulation as well as experienced practitioners, this guide explains the design and implementation of simulation software used in the engineering of large systems while presenting the relevant mathematical elements, concept discussions, and code development. The book approaches the topic from the perspective of Zeigler's theory of modeling and simulation, introducing the theory's fundamental concepts and showing how to apply them to engineering problems. Readers will learn five necessary skills for building simulations of complicated systems: Working with fundamental abstractions for simulating dynamic systems Developing basic simulation algorithms for continuous and discrete event models Combining continuous and discrete event simulations into a coherent whole Applying strategies for testing a simulation Understanding the theoretical foundations of the modeling constructs and simulation algorithms The central chapters of the book introduce, explain, and demonstrate the elements of the theory that are most important for building simulation tools. They are bracketed by applications to robotics, control and communications, and electric power systems; these comprehensive examples clearly illustrate how the concepts and algorithms are put to use. Readers will explore the design of object-oriented simulation programs, simulation using multi-core processors, and the integration of simulators into larger software systems. The focus on software makes this book particularly useful for computer science and computer engineering courses in simulation that focus on building simulators. It is indispensable reading for undergraduate and graduate students studying modeling and simulation, as well as for practicing scientists and engineers involved in the development of simulation tools.

Power System Modelling and Scripting IET

A hands-on introduction to advanced applications of power system transients with practical examples *Transient Analysis of Power Systems: A Practical Approach* offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research. The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications, involving the creation of custom-made

models and tools and the application of multicore environments for advanced studies. The authors cover the general aspects of the transient analysis such as modelling guidelines, solution techniques and capabilities of a transient tool. The book also explores the usual application of a transient tool including over-voltages, power quality studies and simulation of power electronics devices. In addition, it contains an introduction to the transient analysis using the ATP. All the studies are supported by practical examples and simulation results. This important book: Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom-made models and libraries of modules, supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time-domain simulation tools Includes a companion website with data (input) files of examples presented, case studies and power point presentations used to support cases studies Written for EMTP users, electrical engineers, *Transient Analysis of Power Systems* is a hands-on and practical guide to advanced applications of power system transients that includes a range of practical examples. *Power Quality* John Wiley & Sons

"As we look ahead to the recovery from the COVID-19 crisis, Making Money Moral could not come at a better time." —Jamie Dimon, Chairman and Chief Executive Officer, JPMorgan Chase The math doesn't add up: Global financial markets can no longer ignore the world's most critical problems. The risks are too high and the costs too great. In *Making Money Moral: How a New Wave of Visionaries Is Linking Purpose and Profit*, authors Judith Rodin and Saadia Madsbjerg explore a burgeoning movement of bold and ambitious innovators. These trailblazers are unlocking private-sector investments in new ways to solve global problems, from environmental challenges to social issues such as poverty and inequality. They are earning great returns and reimagining capitalism in the process. Pioneers in the field of sustainable and impact investing, Rodin and Madsbjerg offer first-hand stories of how investors of every type and in every asset class are investing in world-changing solutions—with great success. Meet the visionaries who are leading this movement: The investment managers putting trillions of dollars to work, like TPG, Wellington Management, State Street Global Advisors, Nuveen, Amundi, APG and Natixis; The asset owners driving the transition, like GPIF and PensionDanmark; A new generation of entrepreneurs benefiting from the investments, like DreamBox Learning, an innovative educational technology platform, and Goodlife Pharmacies, which is disrupting the traditional notion of a pharmacy; The corporations that are repurposing their business models to meet demand for sustainable products and

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services, like Ørsted; and The nonprofits that are reimagining how to raise money for their work while creating significant value for investors, like The Nature Conservancy. In their book, Rodin and Madsbjerg offer a deep look at the most powerful tools available today—and how they can be unlocked. They reveal: Who the investors are and what they want; How innovative products and investment strategies can deliver long-term value for investors while improving lives and protecting ecosystems; How leaders can build strategies and prepare their organizations to enter and expand this dynamic market; and How to measure impact, understand critical regulations, and avoid potential pitfalls. A roadmap to making the financial market a force for good, *Making Money Moral* is a must-read for those seeking private-sector capital to address a big problem, as well as those seeking both to mitigate risk and to invest in big solutions. "Judith Rodin and Saadia Madsbjerg identify an important new way of looking at money: from the root of all evil to the fount of all solutions. Their timely, important book on impact investing is full of powerful insights and compelling examples they've seen firsthand. Their work will be sure to accelerate momentum toward a more sustainable world." —Rosabeth Moss Kanter, Harvard Business School Professor and Author of *Think Outside the Building: How Advanced Leaders Can Change the World One Smart Innovation at a Time*