
Asst Prof Dr Sohrab Mirsaeidi

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Electronics Systems and Applications (PESA)
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Lighthouses of Maine
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Power Electronics for Modern Wind Turbines
2018 International Conference on Signal
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Operation of Market-oriented Power Systems
Applications & Services in Wireless Networks
Information Retrieval
Introduction to FACTS Controllers
2021 International Conference on Indoor
Positioning and Indoor Navigation (IPIN)
2005 IEEE International Solid-State Circuits
Conference
Advanced DC/DC Converters
Conservation Psychology

Power Conversion and Control of Wind Energy
Systems
Digital Communications
Daylighting
The European Supergrid
MIMO-OFDM Wireless Communications with
MATLAB
Software Quality
Dot.cloud
The Behaviour and Design of Steel Structures
Research and Technology Advances in Digital
Libraries
Signal Processing for Computer Vision
Power Electronics and Ac Drives
Microstrip Antennas
Dynamics of Vehicle Collisions
Antennas and Wave Propagation
Geometric Level Set Methods in Imaging, Vision,
and Graphics
Flexible and Active Distribution Networks
Soft Computing in Green and Renewable Energy
Systems
Real 802.11 Security
Electrical Distribution Networks

Asst Prof Dr
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DIAZ GOODMAN

Thermal Solar
Desalination Chapman

& Hall
The book presents the
latest power
conversion and control
technology in modern
wind energy systems.
It has nine chapters,

covering technology overview and market survey, electric generators and modeling, power converters and modulation techniques, wind turbine characteristics and configurations, and control schemes for fixed- and variable-speed wind energy systems. The book also provides in-depth steady-state and dynamic analysis of squirrel cage induction generator, doubly fed induction generator, and synchronous generator based wind energy systems. To illustrate the key concepts and help the reader tackle real-world issues, the book contains more than 30 case studies and 100 solved problems in addition to simulations and experiments. The

book serves as a comprehensive reference for academic researchers and practicing engineers. It can also be used as a textbook for graduate students and final year undergraduate students.

Introduction to Space-Time Wireless

Communications

Springer Science & Business Media

In Dot.Cloud: The 21st Century Business Platform, business strategy expert and former CIO Peter Fingar explains the main ideas of Cloud Computing in lay terms.

Scientific Advances in STEM John Wiley & Sons

Signal Processing for Computer Vision is a unique and thorough treatment of the signal processing aspects of

filters and operators for low-level computer vision. Computer vision has progressed considerably over recent years. From methods only applicable to simple images, it has developed to deal with increasingly complex scenes, volumes and time sequences. A substantial part of this book deals with the problem of designing models that can be used for several purposes within computer vision. These partial models have some general properties of invariance generation and generality in model generation. *Signal Processing for Computer Vision* is the first book to give a unified treatment of representation and filtering of higher order

data, such as vectors and tensors in multidimensional space. Included is a systematic organisation for the implementation of complex models in a hierarchical modular structure and novel material on adaptive filtering using tensor data representation. *Signal Processing for Computer Vision* is intended for final year undergraduate and graduate students as well as engineers and researchers in the field of computer vision and image processing.

Product Release Planning Springer Science & Business Media

Business success hinges on successfully creating products with the right features. You must correctly analyze the needs of the

customer and match these needs with your resources to not only produce a product and but also deliver it in a timely manner. An in-depth understanding of systematic release planning can put you on this path. Authored by ren

Nucleon Momentum and Density

Distributions in

Nuclei John Wiley & Sons

This textbook introduces the reader to the new and emerging field of Conservation Psychology, which explores connections between the study of human behavior and the achievement of conservation goals. People are often cast as villains in the story of environmental degradation, seen primarily as a threat to

healthy ecosystems and an obstacle to conservation. But humans are inseparable from natural ecosystems. Understanding how people think about, experience, and interact with nature is crucial for promoting environmental sustainability as well as human well-being. The book first summarizes theory and research on human cognitive, emotional, and behavioral responses to nature and goes on to review research on people's experience of nature in wild, managed, and urban settings. Finally, it examines ways to encourage conservation-oriented behavior at both individual and societal levels. Throughout, the authors integrate a

wide body of published literature to demonstrate how and why psychology is relevant to promoting a more sustainable relationship between humans and nature.

2020 8th

International Conference on Power Electronics Systems and Applications (PESA)

John Wiley & Sons Demystifies FACTS controllers, offering solutions to power control and power flow problems Flexible alternating current transmission systems (FACTS) controllers represent one of the most important technological advances in recent years, both enhancing controllability and increasing power transfer capacity of electric power

transmission networks. This timely publication serves as an applications manual, offering readers clear instructions on how to model, design, build, evaluate, and install FACTS controllers. Authors Kalyan Sen and Mey Ling Sen share their two decades of experience in FACTS controller research and implementation, including their own pioneering FACTS design breakthroughs. Readers gain a solid foundation in all aspects of FACTS controllers, including: Basic underlying theories Step-by-step evolution of FACTS controller development Guidelines for selecting the right FACTS controller Sample computer simulations in EMTP programming

language Key differences in modeling such FACTS controllers as the voltage regulating transformer, phase angle regulator, and unified power flow controller Modeling techniques and control implementations for the three basic VSC-based FACTS controllers—STATCOM, SSSC, and UPFC In addition, the book describes a new type of FACTS controller, the Sen Transformer, which is based on technology developed by the authors. An appendix presents all the sample models that are discussed in the book, and the accompanying FTP site offers many more downloadable sample models as well as the full-color photographs that appear throughout the book. This book is

essential reading for practitioners and students of power engineering around the world, offering viable solutions to the increasing problems of grid congestion and power flow limitations in electric power transmission systems. Project Delivery Systems Owner's Manual Claeys & Casteels MIMO-OFDM is a key technology for next-generation cellular communications (3GPP-LTE, Mobile WiMAX, IMT-Advanced) as well as wireless LAN (IEEE 802.11a, IEEE 802.11n), wireless PAN (MB-OFDM), and broadcasting (DAB, DVB, DMB). In MIMO-OFDM Wireless Communications with MATLAB®, the authors provide a comprehensive

introduction to the theory and practice of wireless channel modeling, OFDM, and MIMO, using MATLAB® programs to simulate the various techniques on MIMO-OFDM systems. One of the only books in the area dedicated to explaining simulation aspects Covers implementation to help cement the key concepts Uses materials that have been classroom-tested in numerous universities Provides the analytic solutions and practical examples with downloadable MATLAB® codes Simulation examples based on actual industry and research projects Presentation slides with key equations and figures for instructor use MIMO-OFDM Wireless Communications with

MATLAB® is a key text for graduate students in wireless communications. Professionals and technicians in wireless communication fields, graduate students in signal processing, as well as senior undergraduates majoring in wireless communications will find this book a practical introduction to the MIMO-OFDM techniques. Instructor materials and MATLAB® code examples available for download at www.wiley.com/go/cho mimo *Lighthouses of Maine* Elsevier An accessible introduction to the theory of space-time wireless communications. Power System Restoration Addison-

Wesley Professional From Grand Manan to Mount Desert to the Isles of Shoals on the New Hampshire border, sixty-eight lighthouses stand along the coast of Maine and her rivers. In his conversational way, Bill Caldwell leads his readers on a historical tour of nearly all the Maine lighthouses. In Caldwell's hands the legends, lore, and history of the impressive signals come to life. Maine's lighthouses are symbols of it's proud maritime heritage, and of a way of life that has long passed. Who better to pass on the traditions than master story-teller Bill Caldwell. In addition to numerous books about Maine, Bill Caldwell wrote regular columns

for the Portland Press Herald and the Maine Sunday Telegram. He was an ardent sailor, and his sixteen years sailing among the Maine islands gave him a unique insight into Maine's people and culture. He died at his home in Arizona in January 2001.

2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS.

Springer Nature This useful reference allows readers to compare and learn from best-practice and up-to-date information in this exciting field from Europe, the US and Australia. It shows how to overcome day-to-day and strategic engineering problems, rather than concentrating on policy and market-structural

issues.

Power Electronics for
Modern Wind Turbines

Alpha Science

International, Limited

Antennas and Wave

Propagation is written

for the first course on

the same. The book

begins with an

introduction that

discusses the

fundamental concepts,

notations,

representation and

principles that govern

the field of antennas. A

separate chapter on

mathematical

preliminaries is

discussed followed by

chapters on every

aspect of antennas

from Maxwell's

equations to antenna

array analysis, antenna

array synthesis,

antenna

measurements and

wave propagation.

2018 International

Conference on Signal

Processing and

Information Security

(ICSPIS) Cambridge

University Press

This book describes the

fundamental aspects of

the new generation of

electrical distribution

grids, taking as its

starting point the

opportunities that exist

for restructuring

existing infrastructure.

It emphasizes the

incorporation of

renewable energy

sources into the

distribution grid and

the need for a

technological evolution

towards the

implementation of

smartgrids. The book is

organized into two

parts: the first part

analyzes the

integration of

distributed energy

sources into the

distribution grid and

the impact of these

sources on grid

operation. After a general description of the general characteristics of distribution grids and renewable energy sources, it then analyzes the economics of electrical energy distribution networks and presents the impact of these sources on grid operation. The second part of the book then analyzes the various functions which allow for safe operation of the grid and realization of the path towards real world application of smartgrids.

Operation of Market-oriented Power

Systems CRC Press

Digital

Communications is a classic book in the area that is designed to be used as a senior or graduate level text.

The text is flexible and

can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep refer to in their professional careers. This best-selling book in Digital Communications by John G. Proakis has been revised to reflect the current trends in the field. Some of the topics that have been added include Turbocodes, Antenna Arrays, Iterative Detection, and Digital Cellular Systems. Also new to this edition are electronic figures for presentation materials found on the website. [Applications & Services in Wireless Networks](#) John Wiley & Sons The 8th International Conference on Power

Electronics Systems and Application (PESA) will be held in December 2020 in Hong Kong The conference focuses on the recent research and the industrial projects of power electronics and related technology The conference aims to be a key international forum for the exchange and dissemination of technical information on power electronics among academics and practicing engineers in the field The coming conference features technical presentations and panel discussion sessions The technical presentations will be presented by eminent academics, engineers and managers around the world and will cover topics of current interest in the area of static power

conversion, machines, drives, traction, devices, simulation, and energy saving The panel discussion sessions will provide an open forum for exchanging ideas on the recent development, applications and new standards in power electronics This year the theme is Future Mobility and Future Power Tran

Information

Retrieval Prentice Hall "This anthology combines 15 years of microstrip antenna technology research into one significant volume and includes a special introductory tutorial by the co-editors. Covering theory, design and modeling techniques and methods, this source book is an excellent reference

tool for engineers who want to become more familiar with microstrip antennas and microwave systems. Proven antenna designs, novel solutions to practical design problems and relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference."

Introduction to FACTS Controllers

Springer Science & Business Media
The conference addresses the topics of indoor positioning and navigation The advent of terrestrial positioning systems, the internet of things and human sensor networks providing new navigation functionalities sets a novel paradigm for

indoor positioning and navigation solutions that drives to the concept of intelligent spaces The environment, where navigation technology is expected to work, has extended to challenging indoor spaces and to the context of goods and personal mobility Globally there is no overall and easy solution

2021 International Conference on Indoor Positioning and Indoor Navigation (IPIN)

Mdpi AG
Interested in how an efficient search engine works? Want to know what algorithms are used to rank resulting documents in response to user requests? The authors answer these and other key information retrieval

design and implementation questions. This book is not yet another high level text. Instead, algorithms are thoroughly described, making this book ideally suited for both computer science students and practitioners who work on search-related applications. As stated in the foreword, this book provides a current, broad, and detailed overview of the field and is the only one that does so. Examples are used throughout to illustrate the algorithms. The authors explain how a query is ranked against a document collection using either a single or a combination of retrieval strategies, and how an assortment of utilities are integrated into the

query processing scheme to improve these rankings. Methods for building and compressing text indexes, querying and retrieving documents in multiple languages, and using parallel or distributed processing to expedite the search are likewise described. This edition is a major expansion of the one published in 1998. Besides updating the entire book with current techniques, it includes new sections on language models, cross-language information retrieval, peer-to-peer processing, XML search, mediators, and duplicate document detection.

**2005 IEEE
International Solid-
State Circuits
Conference** Down
East Books

Soft Computing in Green and Renewable Energy Systems provides a practical introduction to the application of soft computing techniques and hybrid intelligent systems for designing, modeling, characterizing, optimizing, forecasting, and performance prediction of green and renewable energy systems. Research is proceeding at jet speed on renewable energy (energy derived from natural resources such as sunlight, wind, tides, rain, geothermal heat, biomass, hydrogen, etc.) as policy makers, researchers, economists, and world agencies have joined forces in finding alternative sustainable energy solutions to current critical environmental,

economic, and social issues. The innovative models, environmentally benign processes, data analytics, etc. employed in renewable energy systems are computationally-intensive, non-linear and complex as well as involve a high degree of uncertainty. Soft computing technologies, such as fuzzy sets and systems, neural science and systems, evolutionary algorithms and genetic programming, and machine learning, are ideal in handling the noise, imprecision, and uncertainty in the data, and yet achieve robust, low-cost solutions. As a result, intelligent and soft computing paradigms are finding increasing applications in the study of

renewable energy systems. Researchers, practitioners, undergraduate and graduate students engaged in the study of renewable energy systems will find this book very useful.

Advanced DC/DC

Converters Institute of Electrical & Electronics Engineers(IEEE)

Wind energy is now the world's fastest growing energy source. In the past 10 years, the global wind energy capacity has increased rapidly. The installed global wind power capacity has grown to 47.317 GW from about 3.5 GW in 1994. The global wind power industry installed 7976 MW in 2004, an increase in total installed generating capacity of 20%. The phenomenal growth in the wind energy

industry can be attributed to the concerns to the environmental issues, and research and development of innovative cost-reducing technologies. Denmark is a leading producer of wind turbines in the world, with an almost 40% share of the total worldwide production. The wind energy industry is a giant contributor to the Danish economy. In Denmark, the 3117 MW (in 2004) wind power is supplied by approximately 5500 wind turbines. Individuals and cooperatives own around 80% of the capacity. Denmark will increase the percentage of energy produced from wind to 25% by 2008, and aims for a 50% wind share

of energy production by 2025. Wind technology has improved significantly over the past two decades, and almost all of the aspects related to the wind energy technology are still under active research and development. However, this monograph will introduce some basics of the electrical and power electronic aspects involved with modern wind generation systems, including modern power electronics and converters, electric generation and conversion systems for both fixed speed and variable speed systems, control techniques for wind turbines, configurations of wind farms, and the issues

of integrating wind turbines into power systems. P
Conservation
Psychology Springer
Science & Business
Media
Daylighting offers a general theory and introduction to the use of natural light in architecture. The fourth of Derek Phillip's lighting books draws on his experience to illustrate how best to bring natural light into building design. As sustainability becomes a core principal for designers, daylighting comes to the fore as an alternative to artificial, energy consuming, light. Here, Phillips makes a rational argument for considering daylight first, outlining the arguments in favour of a daylight approach, and goes on to show,

through a series of beautifully illustrated case studies, how architects have created buildings in which

natural light has been shown to play a major strategic role in the development of the design of a building.