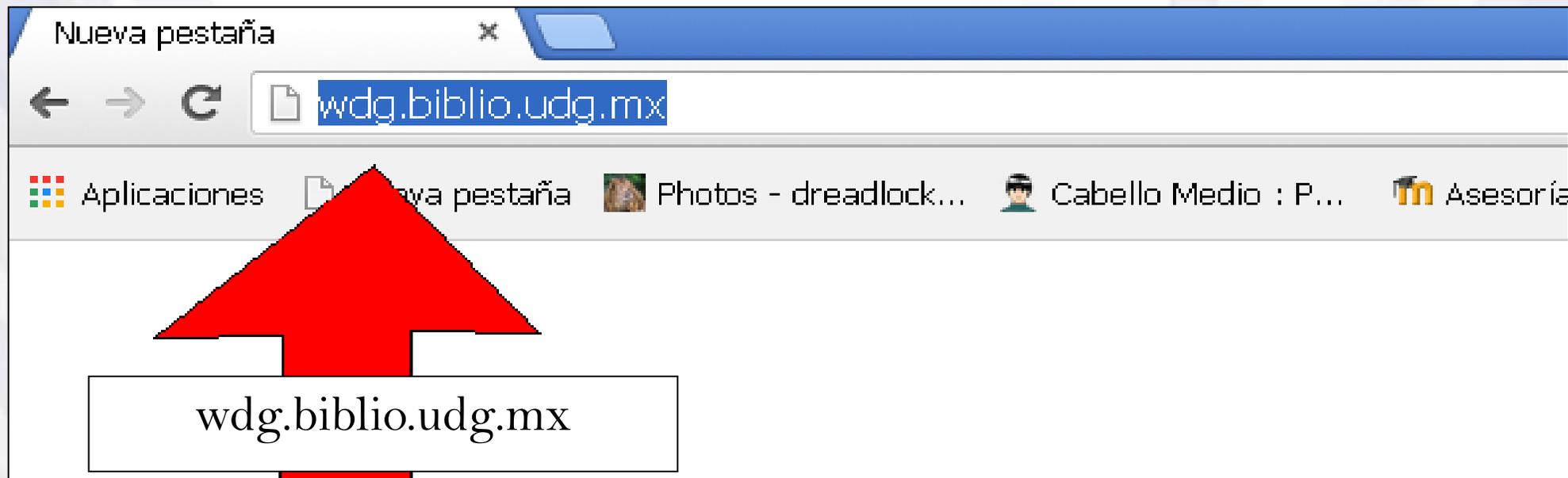


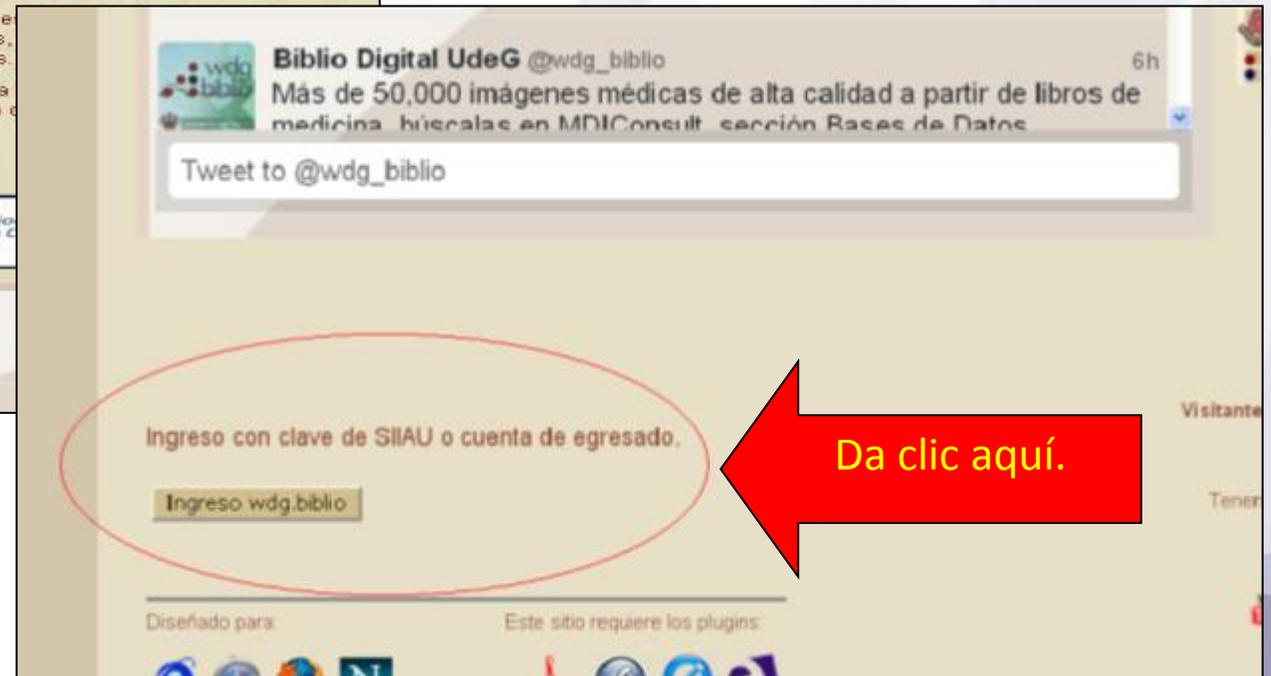
Libros electrónicos en la plataforma Mylibrary



- Los libros de esta lista están registrado en el Catálogo en línea del **CUCEI** (http://148.202.105.23:8991/F/?func=find-b-0&local_base=CUCEI), en donde existe un enlace bajo el término “Acceso al libro electrónico”.
Si la consulta al libro se hace desde fuera el CUCEI o de la Universidad, primero:
Ingresar a Biblioteca Digital a la página <http://wdg.biblio.udg.mx>



Desplazarse a la parte inferior de la página...



... ubica el botón para ingresar al sistema

- Se abrirá una ventana, donde escribirás tu código de alumno y tu NIP (**Los mismos que usas para ingresar al SIAU**).



The image shows a screenshot of a web browser window titled "LogOn - Google Chrome". The address bar displays "wdg.biblio.udg.mx/popup_gral.php". The page content includes the heading "Escriba sus datos para ingresar" and two input fields: "Código/usuario:" and "NIP/password:". A red arrow points from the left to the "NIP/password:" field with the text "Aquí va el NIP.". Another red arrow points from the right to the "Código/usuario:" field with the text "Aquí va el Código.". Below the input fields is an "Ingresar" button. Further down, there is a section for "Si no tiene cuenta solicítela o ingrese como invitado", followed by "Solicitud cuentas: Egresados y Trabajadores" with a "Solicitar" button, and "Ingreso como invitado (algunas restricciones)" with an "Invitado" button. The "wdg biblio" logo is at the bottom center.

- Al finalizar, da clic en “**Ingresar**”, se cerrará la ventana y te devolverá a la página de la Biblioteca Digital, donde aparecerá tu nombre en la parte inferior.

LogOn - Google Chrome

wdg.biblio.udg.mx/popup_gral.php

Escriba sus datos para ingresar

Código/usuario: 211561547

NIP/password:

Ingresar

Si no tiene cuenta solicítela o ingrese como invitado

Solicitud cuentas: Egresados y Trabajadores

Solicitar

Ingreso como invitado ([algunas restricciones](#))

Invitado

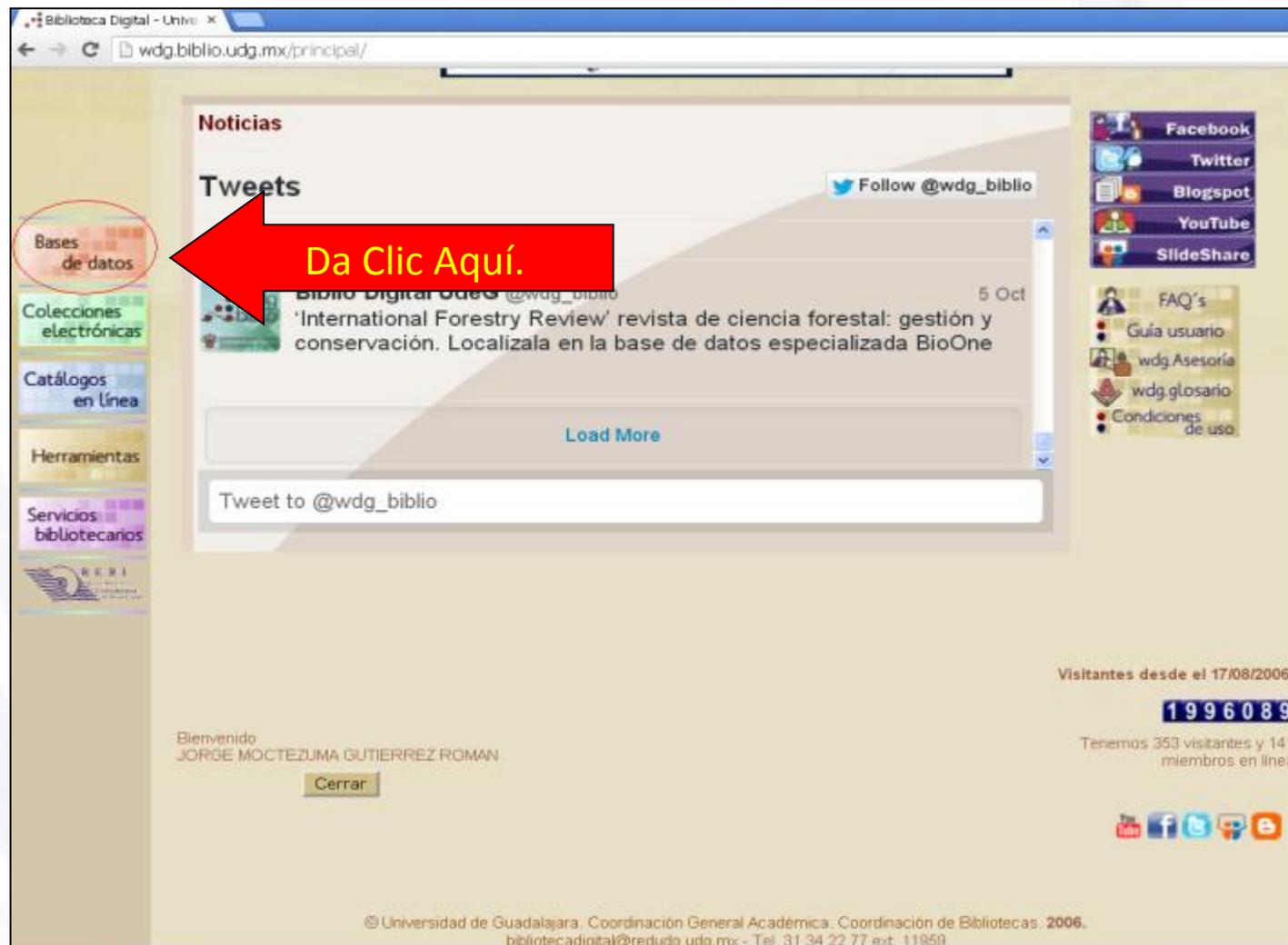
wdg biblio



Así debe aparecer...

The screenshot shows the main page of the Biblioteca Digital UdeG website. The browser address bar displays `wdg.biblio.udg.mx/principal/`. The page features a navigation menu on the left with categories like 'Bases de datos', 'Colecciones electrónicas', 'Catálogos en línea', 'Herramientas', and 'Servicios bibliotecarios'. The main content area includes a 'Noticias' section, a 'Tweets' section with two tweets from @wdg_biblio, and a 'Bienvenido' message for 'JORGE MOCTEZUMA GUTIERREZ ROMAN' with a 'Cerrar' button. A red circle highlights the 'Bienvenido' message, and a red arrow points to it with the text 'En esta zona debe aparecer tu nombre.' The right sidebar contains social media links (Facebook, Twitter, Blogspot, YouTube, SlideShare) and a 'FAQ's' section. At the bottom right, there is a visitor counter showing '1996089' and a footer with social media icons.

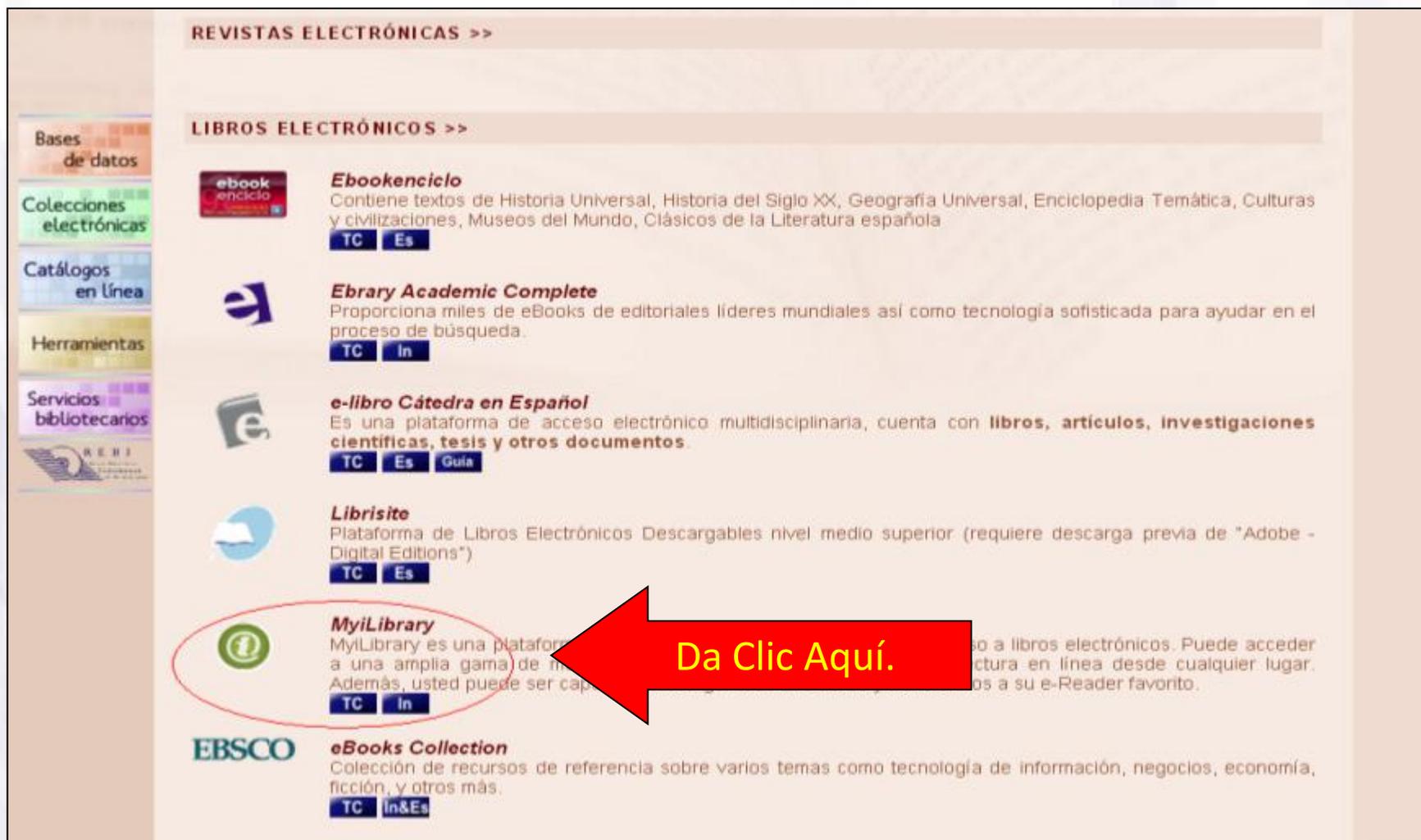
- Ubica el botón que dice “**Bases de Datos**” en el margen izquierdo de la página.



- Aparecerá el índice de “**Recursos Informativos**”, ubica “**Libros Electrónicos**”.

The screenshot shows the 'Recursos Informativos' page of the 'Biblioteca Digital Red de Bibliotecas - Universidad de Guadalajara'. The page features a navigation menu on the left with categories like 'Bases de datos', 'Colecciones electrónicas', 'Catálogos en línea', 'Herramientas', and 'Servicios bibliotecarios'. The main content area is titled 'Recursos informativos' and contains a descriptive paragraph about digital collections. Below the text is a list of resource categories, each with a right-pointing arrow: 'BASES DE DATOS >>', 'REVISTAS ELECTRÓNICAS >>', 'LIBROS ELECTRÓNICOS >>', 'OBRAS DE CONSULTA >>', 'RECURSOS EN ESPAÑOL >>', 'RECURSOS LIBRES >>', and 'BASES DE DATOS A PRUEBA >>'. A red arrow points from the text 'Da Clic Aquí.' to the 'LIBROS ELECTRÓNICOS >>' link, which is also circled in red.

- Ubica el enlace de “[MyiLibrary](#)”.



REVISTAS ELECTRÓNICAS >>

LIBROS ELECTRÓNICOS >>

Bases de datos

Colecciones electrónicas

Catálogos en línea

Herramientas

Servicios bibliotecarios

REBI

ebook enciclo **Ebookenciclo**
Contiene textos de Historia Universal, Historia del Siglo XX, Geografía Universal, Enciclopedia Temática, Culturas y civilizaciones, Museos del Mundo, Clásicos de la Literatura española.
TC Es

Ebrary Academic Complete
Proporciona miles de eBooks de editoriales líderes mundiales así como tecnología sofisticada para ayudar en el proceso de búsqueda.
TC In

e-libro Cátedra en Español
Es una plataforma de acceso electrónico multidisciplinaria, cuenta con **libros, artículos, investigaciones científicas, tesis y otros documentos**.
TC Es Guía

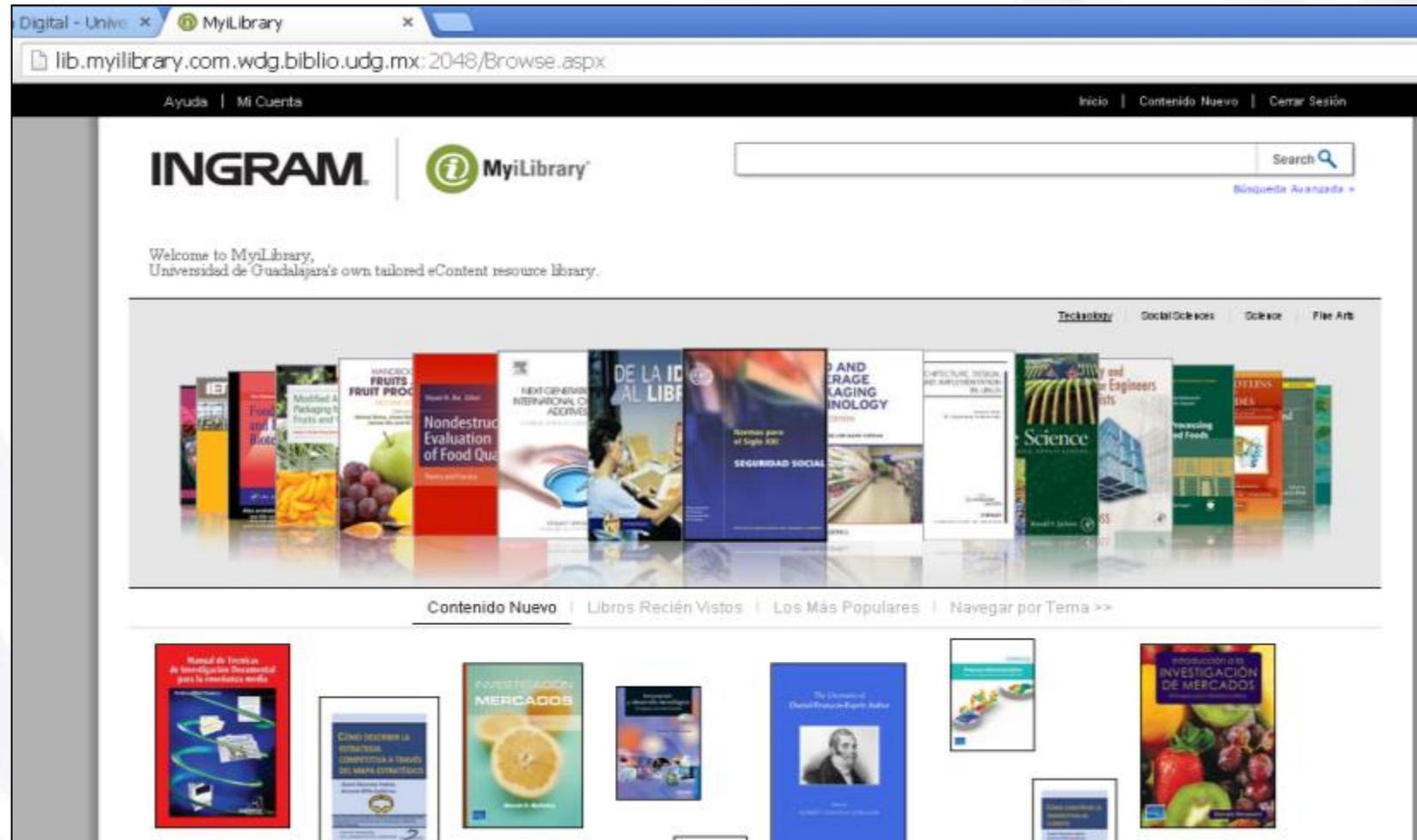
Librisite
Plataforma de Libros Electrónicos Descargables nivel medio superior (requiere descarga previa de "Adobe - Digital Editions")
TC Es

MyiLibrary
MyiLibrary es una plataforma de acceso electrónico que ofrece una amplia gama de recursos electrónicos. Puede acceder a una amplia gama de recursos electrónicos en línea desde cualquier lugar. Además, usted puede ser capaz de acceder a sus libros a su e-Reader favorito.
TC In

EBSCO eBooks Collection
Colección de recursos de referencia sobre varios temas como tecnología de información, negocios, economía, ficción, y otros más.
TC In&Es

Da Clic Aquí.

- Se abrirá la página de **MyiLibrary**, donde podrás consultar los libros disponibles.



Podrás buscar por:



Índice de títulos disponibles (Hoja 1)

- [Analysis of Synchronous Machines, Second Edition](#)
- [Bayesian Data Analysis](#)
- [Beginning Sensor Networks with Arduino and Raspberry Pi](#)
- [Building Wireless Sensor Networks : with ZigBee, XBee, Arduino, and Processing](#)
- [Categorical Data Analysis](#)
- [Cloud Computing in Financial Services](#)
- [Cognitive Biology: Evolutionary and Developmental Perspectives on Mind, Brain, and Behavior](#)
- [Computer Architecture](#)
- [Data Mining: Concepts and Techniques](#)
- [Discrete-Time Inverse Optimal Control for Nonlinear Systems](#)

Siguiente



Índice de títulos disponibles (Hoja 2)

- [Distributed Photovoltaic Grid Transformers](#)
- [Engineering Electrodynamics: Electric Machine, Transformer, and Power Equipment Design](#)
- [Evolutionary Optimization Algorithms](#)
- [Exploring Arduino : Tools and Techniques for Engineering Wizardry](#)
- [Greener Energy Systems: Energy Production Technologies with Minimum Environmental Impact](#)
- [Handbook of Molecular Microbial Ecology I](#)
- [Human Microbiota, The : How Microbial Communities Affect Health and Disease](#)
- [The Induction Machine Handbook](#)
- [An Introduction to Optimization](#)
- [Introductory Bioelectronics](#)



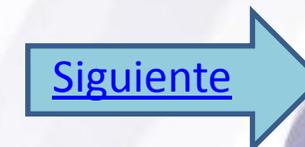
Índice de títulos disponibles (Hoja 3)

- [Introductory Raman Spectroscopy](#)
- [Linear Synchronous Motors: Transportation and Automation Systems](#)
- [MATLAB Numerical Methods with Chemical Engineering Applications](#)
- [Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design](#)
- [Molecular Genetics of Bacteria](#)
- [The Nanobiotechnology Handbook](#)
- [Nonlinear Control of Dynamic Networks](#)
- [Numerical Methods and Optimization in Finance](#)
- [Optimization for Machine Learning](#)
- [Pattern Recognition](#)



Índice de títulos disponibles (Hoja 4)

- [Pharmaceutical Biotechnology](#)
- [PIC Microcontroller Projects in C : Basic to Advanced](#)
- [Power Converters and AC Electrical Drives with Linear Neural Networks](#)
- [Power Electronic Systems: Walsh Analysis with MATLAB®](#)
- [Practical Methods of Optimization](#)
- [Principles of Neural Science, Fifth Edition](#)
- [Processes in Microbial Ecology](#)
- [Project Management, Fourth Edition](#)
- [Project Management, Eleven Edition](#)
- [Project Management Metrics, KPIs, and Dashboards : A Guide to Measuring and Monitoring Project Performance](#)



Índice de títulos disponibles (Hoja 5)

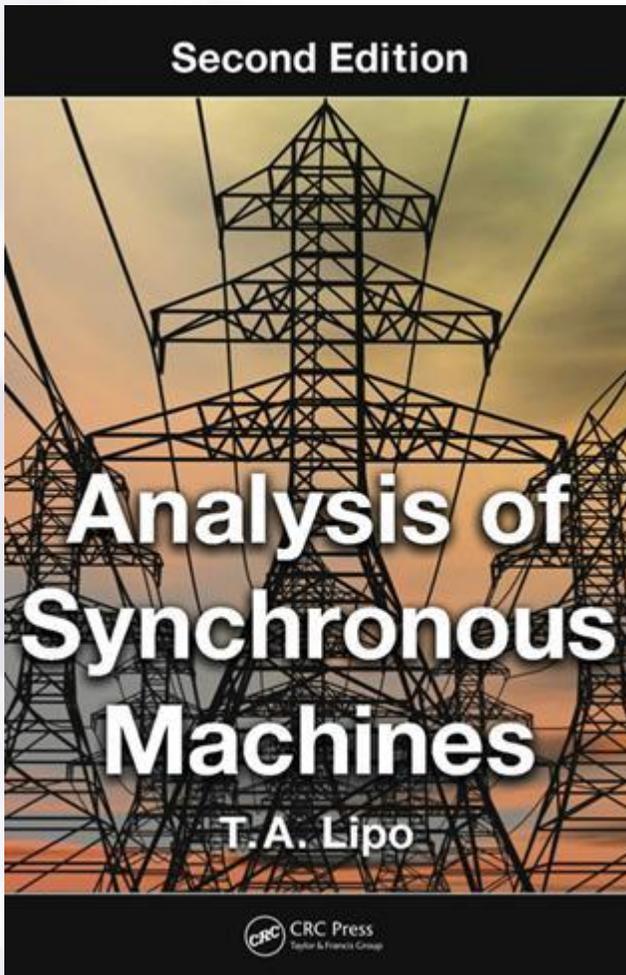
- [Project Management Workbook and PMP / CAPM Exam Study Guide](#)
- [Quantum Enigma: Physics Encounters Consciousness](#)
- [Quantum Physics For Dummies](#)
- [Smart Grids: Clouds, Communications, Open Source, and Automation](#)
- [Statistical Process Control Demystified](#)
- [Statistical Tools For Environmental Quality Measurement](#)
- [Statistics for Six Sigma Made Easy! Revised and Expanded Second Edition](#)
- [Switching Power Converters: Medium and High Power, Second Edition](#)
- [Synthetic Biology, by Schmidt, Markus](#)
- [Synthetic Biology, by Zhao, Huimin](#)



Índice de títulos disponibles (Hoja 6)

- [Systems Biology: Simulation of Dynamic Network States](#)
- [Tracking Control of Linear Systems](#)
- [Transformer and Inductor Design Handbook](#)
- [Ultra Low Power Bioelectronics](#)
- [Wind Energy Systems: Solutions for Power Quality and Stabilization](#)
- [Wind Energy: Renewable Energy and the Environment, Second Edition](#)
- [Wind Power for the World: The Rise of Modern Wind Energy](#)





Analysis of Synchronous Machines, Second Edition

Written By: Lipo, T. A.

Published By: CRC Press

Published In: 2012

DESCRIPCIÓN

- **Analysis of Synchronous Machines, Second Edition** is a thoroughly modern treatment of an old subject. Courses generally teach about synchronous machines by introducing the steady-state per phase equivalent circuit without a clear, thorough presentation of the source of this circuit representation, which is a crucial aspect. Taking a different approach, this book provides a deeper understanding of complex electromechanical drives.
- Focusing on the terminal rather than on the internal characteristics of machines, the book begins with the general concept of winding functions, describing the placement of any practical winding in the slots of the machine. This representation enables readers to clearly understand the calculation of all relevant self- and mutual inductances of the machine. It also helps them to more easily conceptualize the machine in a rotating system of coordinates, at which point they can clearly understand the origin of this important representation of the machine.

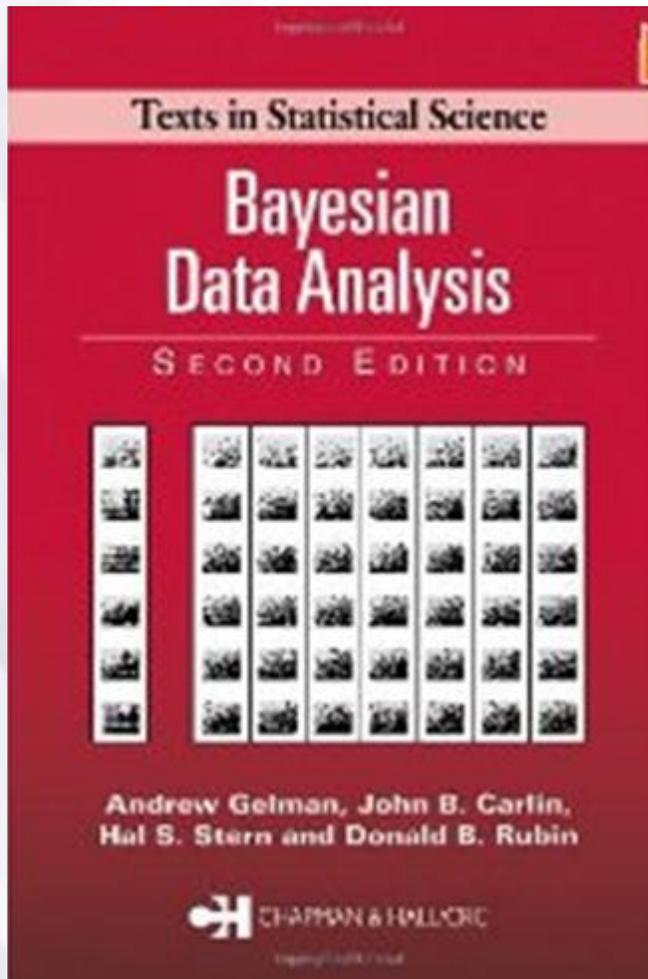


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<http://lib.mylibrary.com?id=581249>

Centro Integral de Documentación – CUCEI Octubre 2014





Bayesian Data Analysis

Written By: Andrew Gelman

Published By: Taylor & Francis

Published In: 2003

DESCRIPCIÓN

- Incorporating new and updated information, this second edition of THE bestselling text in Bayesian data analysis continues to emphasize practice over theory, describing how to conceptualize, perform, and critique statistical analyses from a Bayesian perspective. Its world-class authors provide guidance on all aspects of Bayesian data analysis and include examples of real statistical analyses, based on their own research, that demonstrate how to solve complicated problems. Changes in the new edition include: Stronger focus on MCMC Revision of the computational advice in Part III New chapters on nonlinear models and decision analysis Several additional applied examples from the authors' recent research Additional chapters on current models for Bayesian data analysis such as nonlinear models, generalized linear mixed models, and more Reorganization of chapters 6 and 7 on model checking and data collection Bayesian computation is currently at a stage where there are many reasonable ways to compute any given posterior distribution. However, the best approach is not always clear ahead of time.; Reflecting this, the new edition offers a more pluralistic presentation, giving advice on performing computations from many perspectives while making clear the importance of being aware that there are different ways to implement any given iterative simulation computation. The new approach, additional examples, and updated information make Bayesian Data Analysis an excellent introductory text and a reference that working scientists will use throughout their professional life.

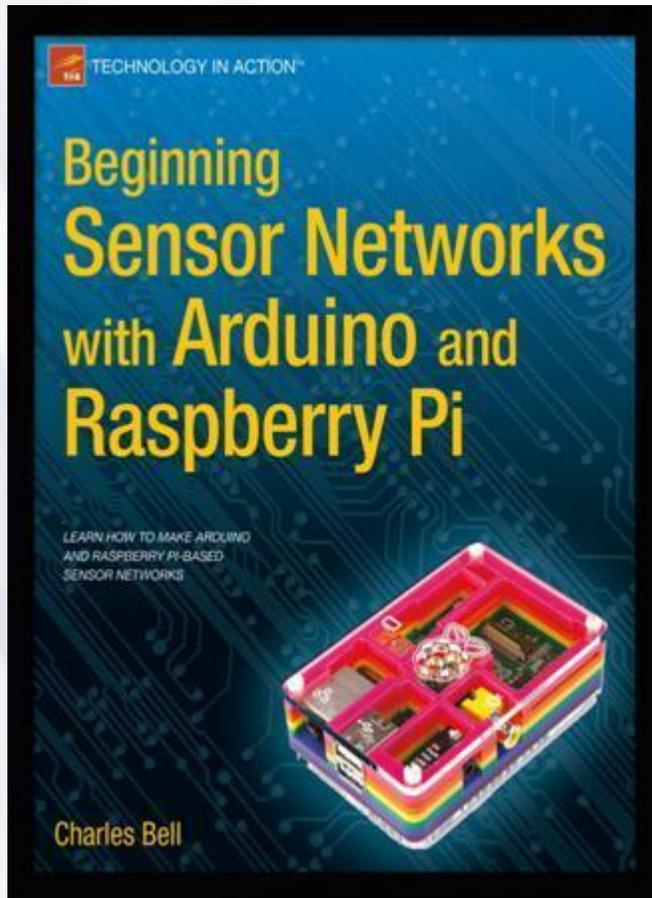


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<http://lib.mylibrary.com?id=26781>

Centro Integral de Documentación – CUCEI Octubre 2014





Beginning Sensor Networks with Arduino and Raspberry Pi

Written By: Charles Bell

Published By: Apress

Published In: 2013

DESCRIPCIÓN

- Beginning Sensor Networks with Arduino and Raspberry Pi teaches you how to build sensor networks with Arduino, Raspberry Pi, and XBee radio modules, and even shows you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! First you'll learn about the different types of sensors and sensor networks, including how to build a simple XBee network. Then you'll walk through building an Arduino-based temperature sensor and data collector, followed by building a Raspberry Pi-based sensor node. Next you'll learn different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll learn how to put it all together by connecting your Arduino sensor node to your new Raspberry Pi database server. If you want to see how well Arduino and Raspberry Pi can get along, especially to create a sensor network, then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need.

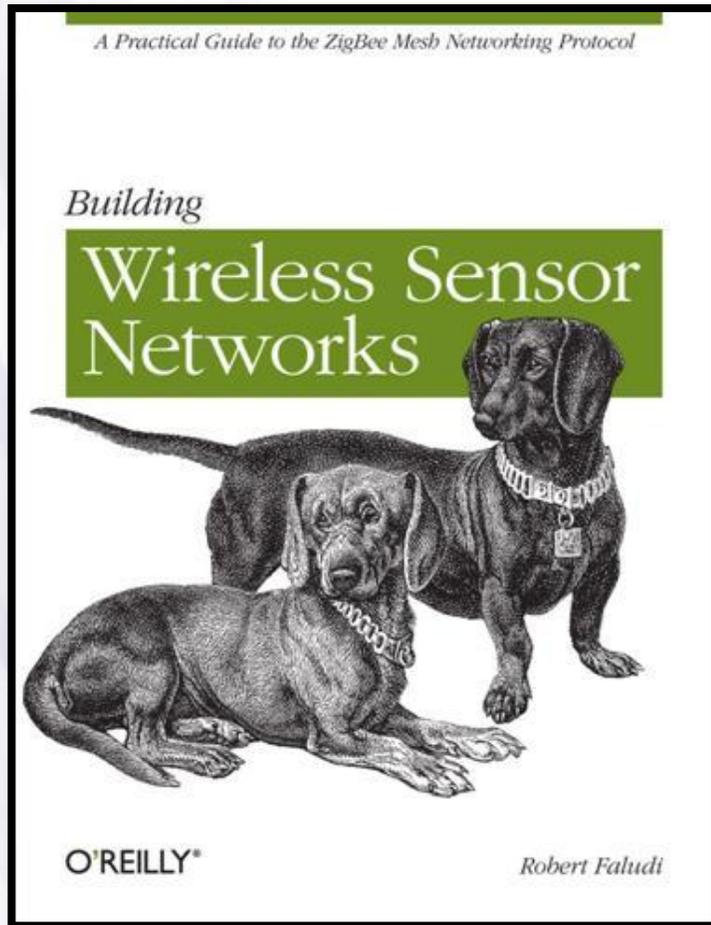


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<http://lib.mylibrary.com?id=600415>

Centro Integral de Documentación – CUCEI Octubre 2014





Building Wireless Sensor Networks : with ZigBee, XBee, Arduino, and Processing

Written By: Faludi, Robert

Published By: O'Reilly Media

Published In: 2010

DESCRIPCIÓN

- Get ready to create distributed sensor systems and intelligent interactive devices using the ZigBee wireless networking protocol and Series 2 XBee radios. By the time you're halfway through this fast-paced, hands-on guide, you'll have built a series of useful projects, including a complete ZigBee wireless network that delivers remotely sensed data.
- Radio networking is creating revolutions in volcano monitoring, performance art, clean energy, and consumer electronics. As you follow the examples in each chapter, you'll learn how to tackle inspiring projects of your own. This practical guide is ideal for inventors, hackers, crafters, students, hobbyists, and scientists.
- Investigate an assortment of practical and intriguing project ideas
- Prep your ZigBee toolbox with an extensive shopping list of parts and programs
- Create a simple, working ZigBee network with XBee radios in less than two hours -- for under \$100
- Use the Arduino open source electronics prototyping platform to build a series of increasingly complex projects
- Get familiar with XBee's API mode for creating sensor networks
- Build fully scalable sensing and actuation systems with inexpensive components
- Learn about power management, source routing, and other XBee technical nuances
- Make gateways that connect with neighboring networks, including the Internet

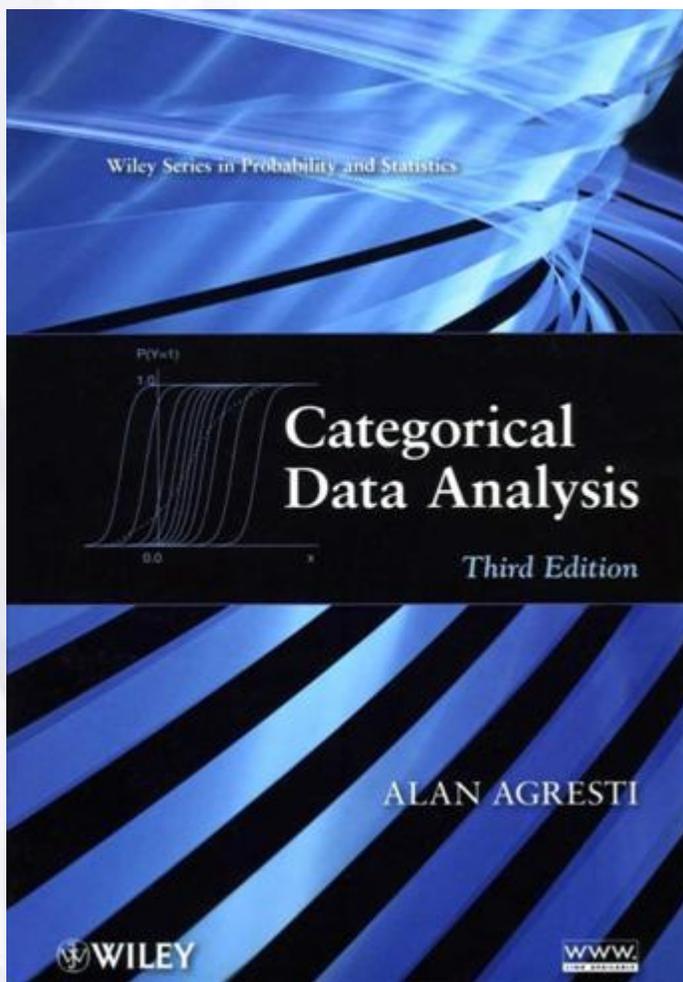
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<http://lib.mylibrary.com?id=612642>

Centro Integral de Documentación – CUCEI Octubre 2014





Categorical Data Analysis

Written By: Agresti, Alan

Published By: Wiley

Published In: 2014

DESCRIPCIÓN

- Praise for the Second Edition "A must-have book for anyone expecting to do research and/or applications in categorical data analysis."—Statistics in Medicine "It is a total delight reading this book."—Pharmaceutical Research "If you do any analysis of categorical data, this is an essential desktop reference."—Technometrics The use of statistical methods for analyzing categorical data has increased dramatically, particularly in the biomedical, social sciences, and financial industries. Responding to new developments, this book offers a comprehensive treatment of the most important methods for categorical data analysis. Categorical Data Analysis, Third Edition summarizes the latest methods for univariate and correlated multivariate categorical responses. Readers will find a unified generalized linear models approach that connects logistic regression and Poisson and negative binomial loglinear models for discrete data with normal regression for continuous data. This edition also features: An emphasis on logistic and probit regression methods for binary, ordinal, and nominal responses for independent observations and for clustered data with marginal models and random effects models Two new chapters on alternative methods for binary response data, including smoothing and regularization methods, classification methods such as linear discriminant analysis and classification trees, and cluster analysis New sections introducing the Bayesian approach for methods in that chapter More than 100 analyses of data sets and over 600 exercises Notes at the end of each chapter that provide references to recent research and topics not covered in the text, linked to a bibliography of more than 1,200 sources A supplementary website showing how to use R and SAS; for all examples in the text, with information also about SPSS and Stata and with exercise solutions Categorical Data Analysis, Third Edition is an invaluable tool for statisticians and methodologists, such as biostatisticians and researchers in the social and behavioral sciences, medicine and public health, marketing, education, finance, biological and agricultural sciences, and industrial quality control.

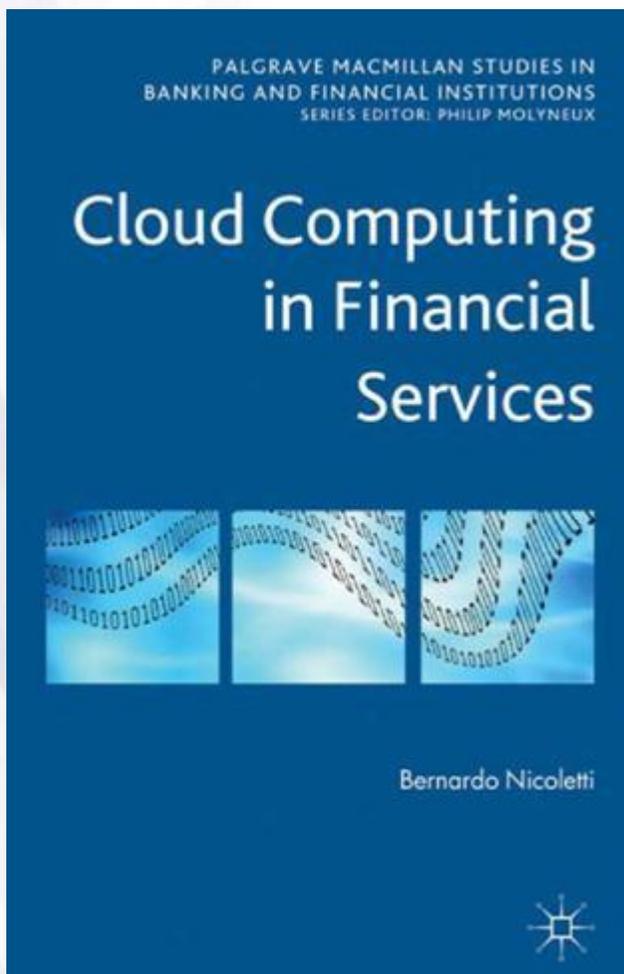


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<http://lib.mylibrary.com?id=604419>

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Cloud Computing in Financial Services

Written By: Nicoletti, Bernardo

Published By: Palgrave Macmillan

Published In: 2013

DESCRIPCIÓN

- Financial institutions must become more innovative in the conduct of their business. Cloud computing helps to achieve several objectives: innovative services, re-engineered processes, business agility and value optimization. Research, consultancy practice and case studies in this book consider the opportunities and risks with vendor relationships.



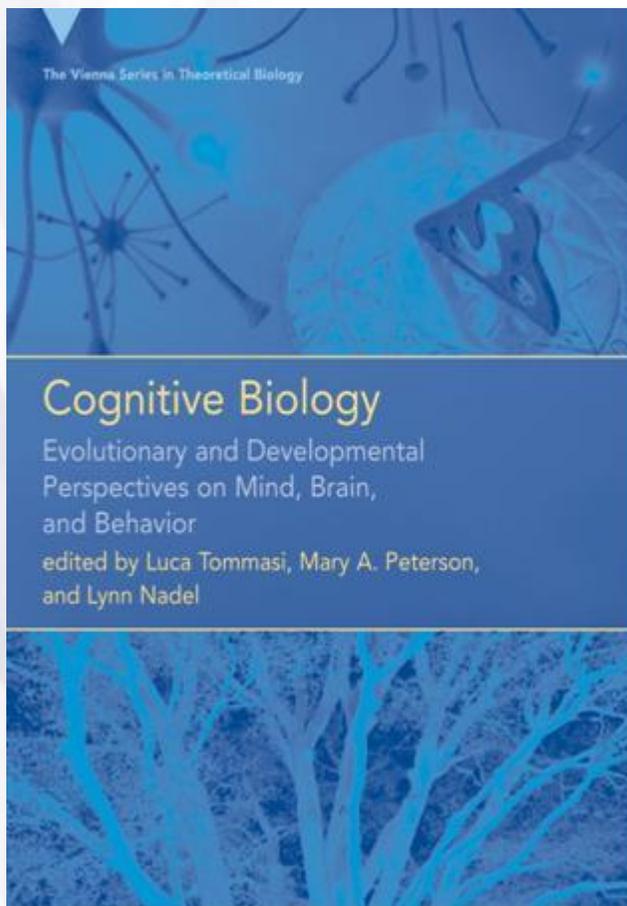
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<http://lib.mylibrary.com?id=513982>

Centro Integral de Documentación – CUCEI Octubre 2014





Cognitive Biology: Evolutionary and Developmental Perspectives on Mind, Brain, and Behavior

Written By: Tommasi, Luca

Published By: MIT Press

Published In: 2009

DESCRIPCIÓN

- An overview of current research at the intersection of psychology and biology, integrating evolutionary and developmental data and explanations.



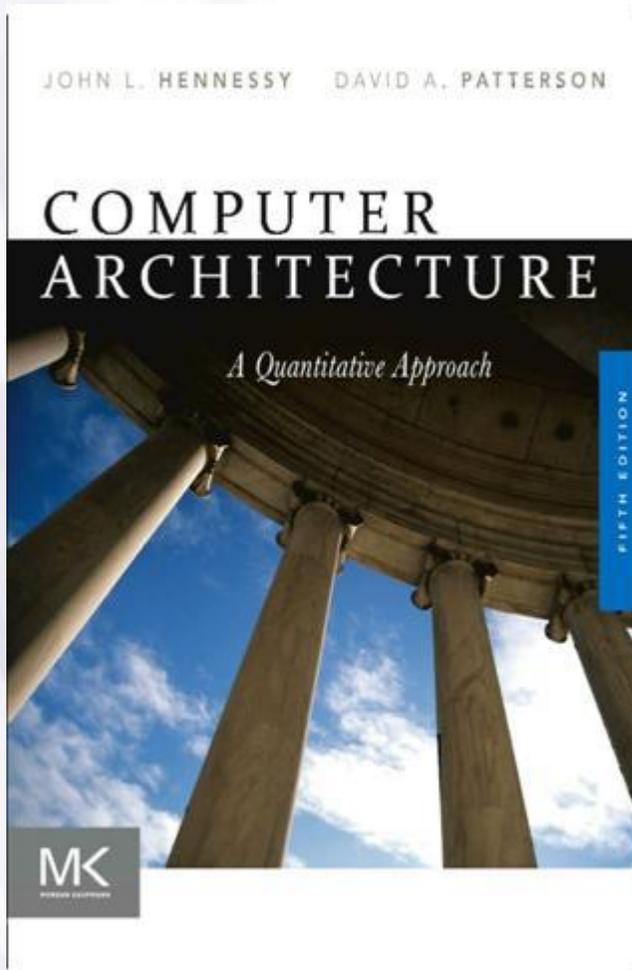
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<http://lib.mylibrary.com?id=224052>

Centro Integral de Documentación – CUCEI Octubre 2014





Computer Architecture

Written By: Hennessy, John L.; Patterson, David A.

Published By: Morgan Kaufmann

Published In: 2011

DESCRIPCIÓN

- The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation today. The Fifth Edition of Computer Architecture focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops, and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Part of Intel's 2012 Recommended Reading List for Developers Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power, performance, cost, dependability, protection, programming models, and emerging trends ("What's Next")Includes three review appendices in the printed text. Additional reference appendices are available online. Includes updated Case Studies and completely new exercises.



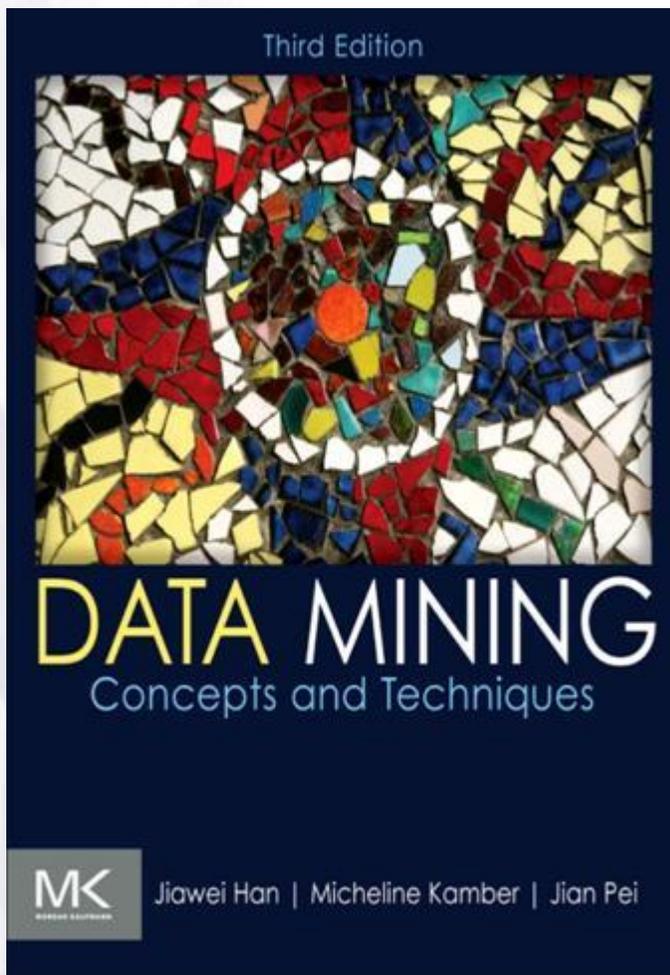
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<http://lib.mylibrary.com?id=329897>

Centro Integral de Documentación – CUCEI Octubre 2014





Data Mining: Concepts and Techniques

Written By: Han, Jiawei; Kamber, Micheline; Pei, Jian

Published By: Morgan Kaufmann

Published In: 2011

DESCRIPCIÓN

- Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. * Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects. * Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields. * Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

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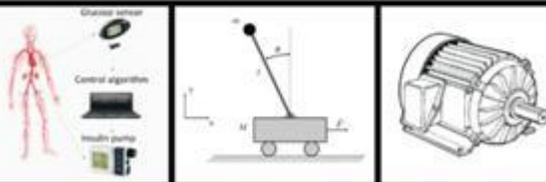
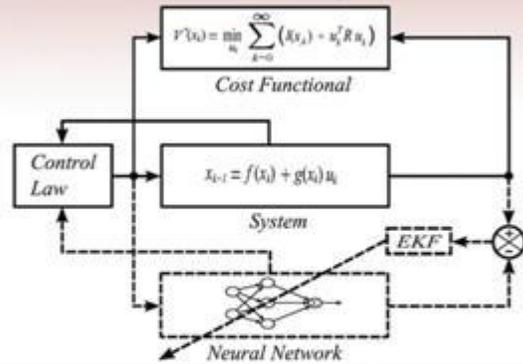
Biblioteca Digital(wdg.biblio.udg.mx)

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Centro Integral de Documentación – CUCEI Octubre 2014



Discrete-Time Inverse Optimal Control for Nonlinear Systems



Edgar N. Sanchez • Fernando Ornelas-Tellez



Discrete-Time Inverse Optimal Control for Nonlinear Systems

Written By: Sanchez, Edgar N.

Published By: CRC Press

Published In: 2013

DESCRIPCIÓN

- Discrete-Time Inverse Optimal Control for Nonlinear Systems proposes a novel inverse optimal control scheme for stabilization and trajectory tracking of discrete-time nonlinear systems. This avoids the need to solve the associated Hamilton-Jacobi-Bellman equation and minimizes a cost functional, resulting in a more efficient controller.

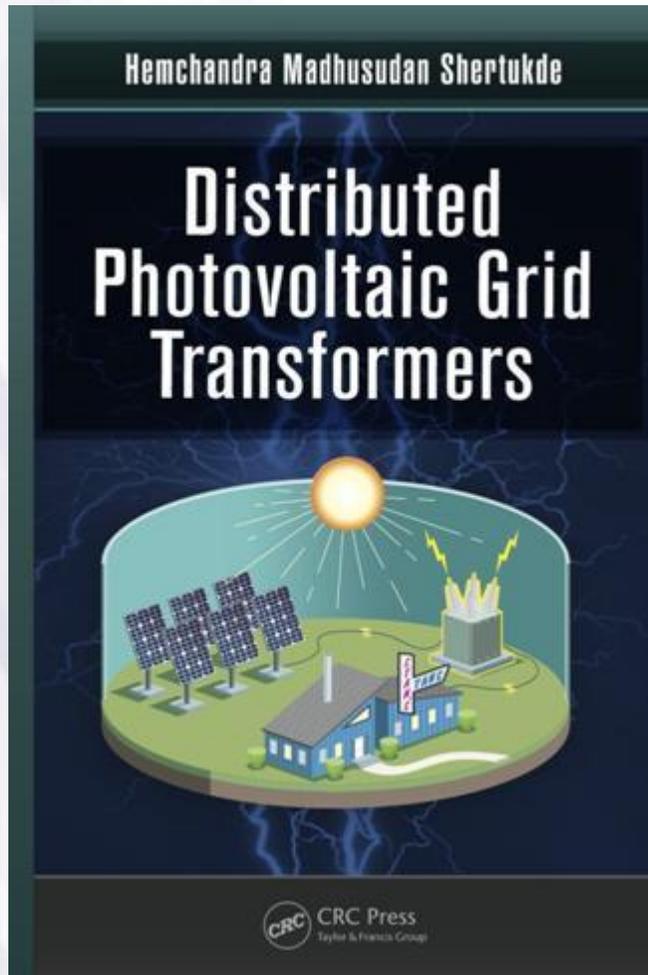


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<http://lib.mylibrary.com?id=502177>

Centro Integral de Documentación – CUCEI Octubre 2014





Distributed Photovoltaic Grid Transformers

Written By: Shertukde, Hemchandra Madhusudan

Published By: CRC Press

Published In: 2014

DESCRIPCIÓN

- The demand for alternative energy sources fuels the need for electric power and controls engineers to possess a practical understanding of transformers suitable for solar energy. Meeting that need, Distributed Photovoltaic Grid Transformers begins by explaining the basic theory behind transformers in the solar power arena, and then progresses to describe the development, manufacture, and sale of distributed photovoltaic (PV) grid transformers, which help boost the electric DC voltage (generally at 30 volts) harnessed by a PV panel to a higher level (generally at 115 volts or higher) once it is inverted to the AC voltage form by the inverter circuit. Packed with real-life scenarios and case studies from around the globe, Distributed Photovoltaic Grid Transformers covers the key design, operation, and maintenance aspects of transformers suitable for solar energy. Topics include islanding, voltage flicker, voltage operating range, frequency and power factor variation, and waveform distortion. Multiple homework questions are featured in each chapter. A solutions manual and downloadable content, such as illustrated examples, are available with qualifying course adoption.



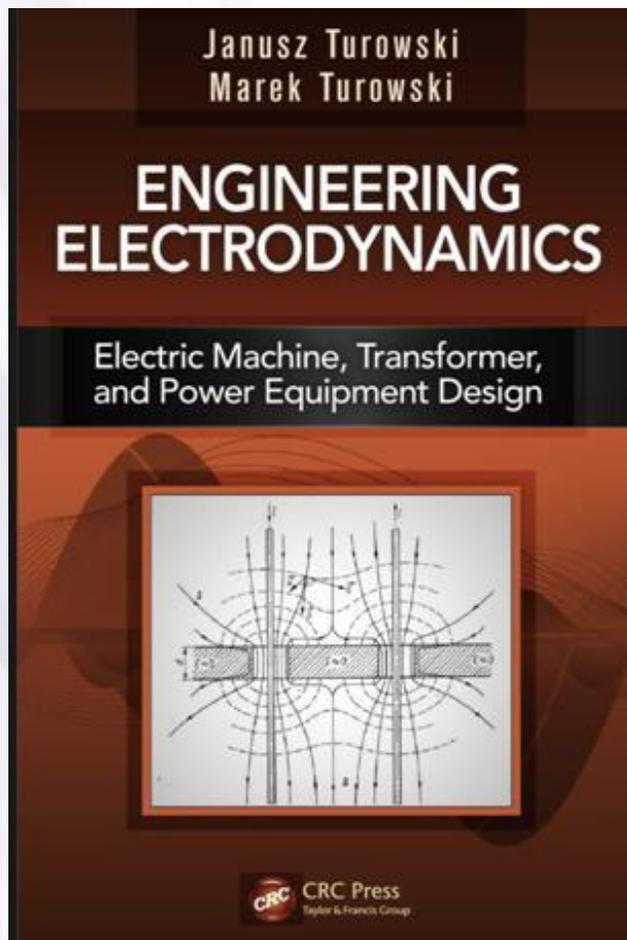
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Biblioteca Digital(wdg.biblio.udg.mx)

<http://lib.mylibrary.com?id=617895>

Centro Integral de Documentación – CUCEI Octubre 2014





Engineering Electrodynamics: Electric Machine, Transformer, and Power Equipment Design

Written By: Turowski, Janusz

Published By: CRC Press

Published In: 2014

DESCRIPCIÓN

- Due to a huge concentration of electromagnetic fields and eddy currents, large power equipment and systems are prone to crushing forces, overheating, and overloading. Luckily, power failures due to disturbances like these can be predicted and/or prevented. Based on the success of internationally acclaimed computer programs, such as the authors' own RNM-3D, Engineering Electrodynamics: Electric Machine, Transformer, and Power Equipment Design explains how to implement industry-proven modeling and design techniques to solve complex electromagnetic phenomena. Considering recent progress in magnetic and superconducting materials as well as modern methods of mechatronics and computer science, this theory- and application-driven book: Analyzes materials structure and 3D fields, taking into account magnetic and thermal nonlinearities Supplies necessary physical insight for the creation of electromagnetic and electromechanical high power equipment models Describes parameters for electromagnetic calculation of the structural parts of transformers, electric machines, apparatuses, and other electrical equipment Covers power frequency 50-60 Hz (worldwide and US) equipment applications Includes examples, case studies, and homework problems Engineering Electrodynamics: Electric Machine, Transformer, and Power Equipment Design provides engineers, students, and academia with a thorough understanding of the physics, principles, modeling, and design of contemporary industrial devices.

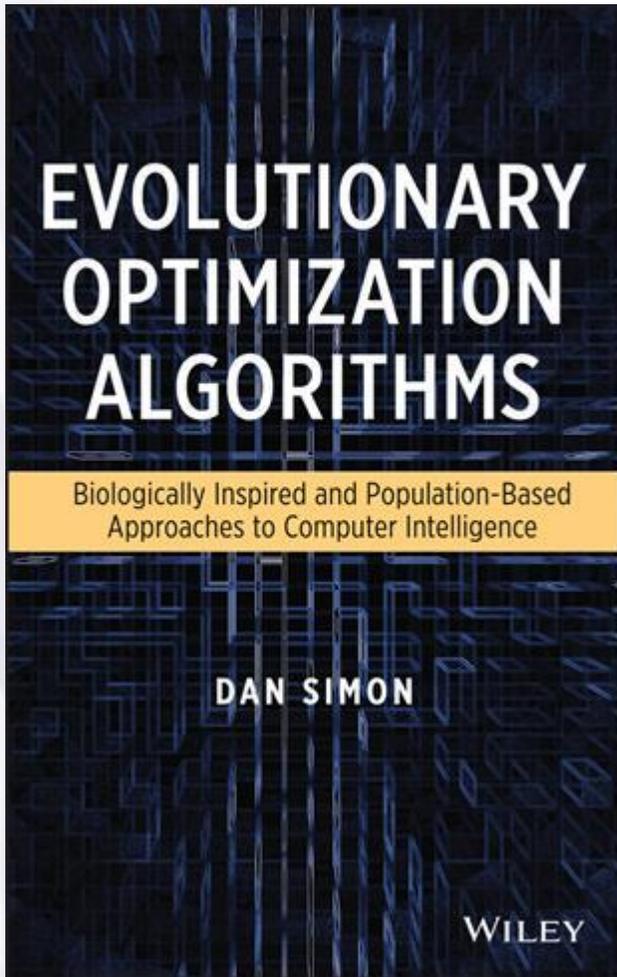


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Evolutionary Optimization Algorithms

Written By: Simon, Dan

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- A clear and lucid bottom-up approach to the basic principles of evolutionary algorithms Evolutionary algorithms (EAs) are a type of artificial intelligence. EAs are motivated by optimization processes that we observe in nature, such as natural selection, species migration, bird swarms, human culture, and ant colonies. This book discusses the theory, history, mathematics, and programming of evolutionary optimization algorithms. Featured algorithms include genetic algorithms, genetic programming, ant colony optimization, particle swarm optimization, differential evolution, biogeography-based optimization, and many others. Evolutionary Optimization Algorithms: Provides a straightforward, bottom-up approach that assists the reader in obtaining a clear—but theoretically rigorous—understanding of evolutionary algorithms, with an emphasis on implementation Gives a careful treatment of recently developed EAs—including opposition-based learning, artificial fish swarms, bacterial foraging, and many others— and discusses their similarities and differences from more well-established Eas Includes chapter-end problems plus a solutions manual available online for instructors Offers simple examples that provide the reader with an intuitive understanding of the theory Features source code for the examples available on the author's website Provides advanced mathematical techniques for analyzing EAs, including Markov modeling and dynamic system modeling Evolutionary Optimization Algorithms: Biologically Inspired and Population-Based Approaches to Computer Intelligence is an ideal text for advanced undergraduate students, graduate students, and professionals involved in engineering and computer science.



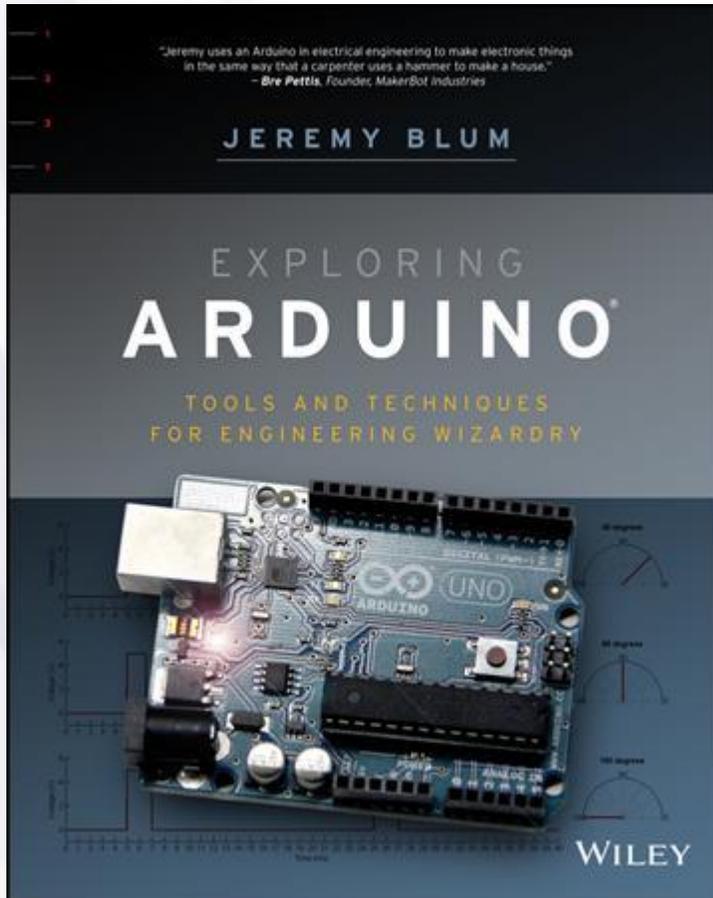
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Exploring Arduino : Tools and Techniques for Engineering Wizardry

Written By: Blum, Jeremy

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- Learn to easily build gadgets, gizmos, robots, and more using Arduino Written by Arduino expert Jeremy Blum, this unique book uses the popular Arduino microcontroller platform as an instrument to teach you about topics in electrical engineering, programming, and human-computer interaction. Whether you're a budding hobbyist or an engineer, you'll benefit from the perfectly paced lessons that walk you through useful, artistic, and educational exercises that gradually get more advanced. In addition to specific projects, the book shares best practices in programming and design that you can apply to your own projects. Code snippets and schematics will serve as a useful reference for future projects even after you've mastered all the topics in the book. Includes a number of projects that utilize different capabilities of the Arduino, while interfacing with external hardware Features chapters that build upon each other, tying in concepts from previous chapters to illustrate new ones Includes aspects that are accompanied by video tutorials and other multimedia content Covers electrical engineering and programming concepts, interfacing with the world through analog and digital sensors, communicating with a computer and other devices, and internet connectivity Explains how to combine smaller topics into more complex projects Shares downloadable materials and source code for everything covered in the book Exploring Arduino takes you on an adventure and provides you with exclusive access to materials not found anywhere else!



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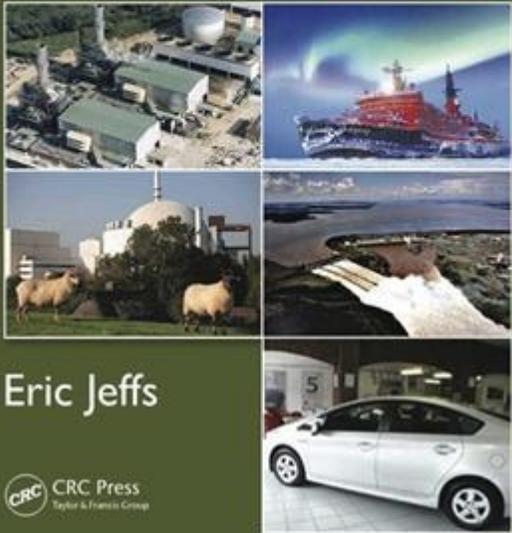
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GREENER ENERGY SYSTEMS

Energy Production Technologies with Minimum Environmental Impact



Greener Energy Systems: Energy Production Technologies with Minimum Environmental Impact

Written By: Jeffs, Eric

Published By: CRC Press

Published In: 2012

DESCRIPCIÓN

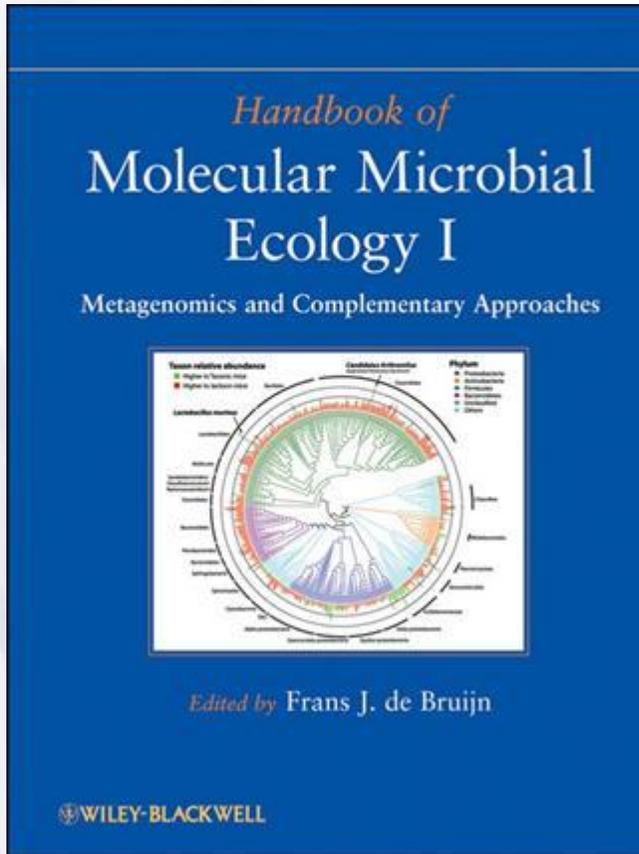
- Recent years have seen acceleration in the development of cleaner energy systems. In Europe and North America, many old coal-fired power plants will be shut down in the next few years and will likely be replaced by combined cycle plants with higher-efficiency gas turbines that can start up and load quickly. With the revival of nuclear energy, designers are creating smaller nuclear reactors of a simpler integrated design that could expand the application of clean, emission-free energy to industry. And a number of manufacturers now offer hybrid cars with an electric motor and a gasoline engine to charge the batteries on the move. This would seem to be the way forward in reducing transport emissions, until countries develop stronger electricity supply systems to cope with millions of electric cars being charged daily.
- **Greener Energy Systems: Energy Production Technologies with Minimum Environmental Impact** tackles the question of how to generate enough electricity, efficiently and with minimum environmental impact, to meet future energy needs across the world.

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Handbook of Molecular Microbial Ecology I

Written By: Bruijn, Frans J.

Published By: Wiley-Blackwell

Published In: 2011

DESCRIPCIÓN

- The premiere two-volume reference on revelations from studying complex microbial communities in many distinct habitats. Metagenomics is an emerging field that has changed the way microbiologists study microorganisms. It involves the genomic analysis of microorganisms by extraction and cloning of DNA from a group of microorganisms, or the direct use of the purified DNA or RNA for sequencing, which allows scientists to bypass the usual protocol of isolating and culturing individual microbial species. This method is now used in laboratories across the globe to study microorganism diversity and for isolating novel medical and industrial compounds. Handbook of Molecular Microbial Ecology is the first comprehensive two-volume reference to cover unculturable microorganisms in a large variety of habitats, which could not previously have been analyzed without metagenomic methodology. It features review articles as well as a large number of case studies, based largely on original publications and written by international experts. This first volume, Metagenomics and Complementary Approaches, covers such topics as: Background information on DNA reassociation and use of 16 rRNA and other DNA fingerprinting approaches. Species designation in microbiology. Metagenomics: Introduction to the basic tools with examples. Consortia and databases. Bioinformatics. Computer-assisted analysis. Complementary approaches—microarrays, metatranscriptomics, metaproteomics, metabolomics, and single cell analysis. A special feature of this volume is the highlighting of the databases and computer programs used in each study; they are listed along with their sites in order to facilitate the computer-assisted analysis of the vast amount of data generated by metagenomic studies. Handbook of Molecular Microbial Ecology I is an invaluable reference for researchers in metagenomics, microbiology, and environmental microbiology; those working on the Human Microbiome Project; microbial geneticists; molecular microbial ecologists; and professionals in molecular microbiology and bioinformatics.

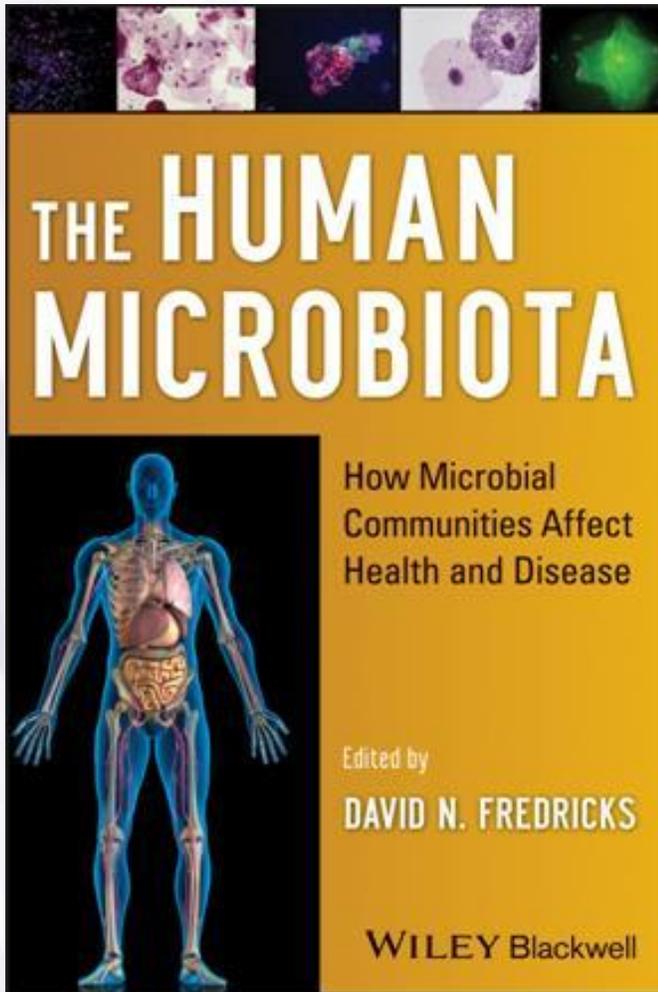
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Human Microbiota, The : How Microbial Communities Affect Health and Disease

Written By: Fredricks, David N.

Published By: Wiley-Blackwell

Published In: 2013

DESCRIPCIÓN

- The Human Microbiota offers a comprehensive review of all human-associated microbial niches in a single volume, focusing on what modern tools in molecular microbiology are revealing about human microbiota, and how specific microbial communities can be associated with either beneficial effects or diseases. An excellent resource for microbiologists, physicians, infectious disease specialists, and others in the field, the book describes the latest research findings and evaluates the most innovative research approaches and technologies. Perspectives from pioneers in human microbial ecology are provided throughout.

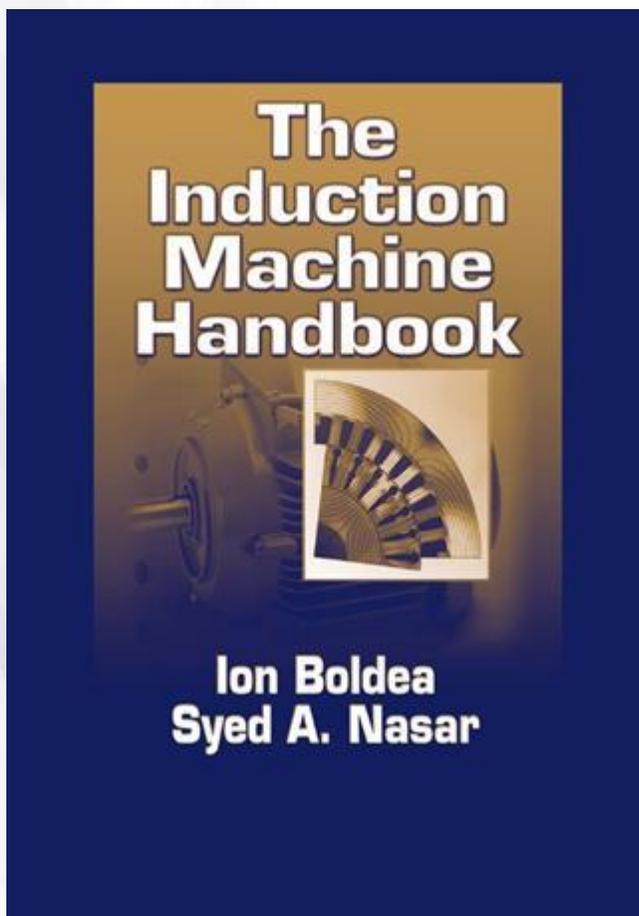


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The Induction Machine Handbook

Written By: Boldea, Ion

Published By: CRC Press

Published In: 2002

DESCRIPCIÓN

- Often called the workhorse of industry, the advent of power electronics and advances in digital control are transforming the induction motor into the racehorse of industrial motion control. Now, the classic texts on induction machines are nearly three decades old, while more recent books on electric motors lack the necessary depth and detail on induction machines. The Induction Machine Handbook fills industry's long-standing need for a comprehensive treatise embracing the many intricate facets of induction machine analysis and design. Moving gradually from simple to complex and from standard to new knowledge, it includes an extended presentation of windings parameters as influenced by frequency and saturation, offers a complete account of standard and new testing methods, and devotes several chapters to the design of variable-speed induction motors. With a coherence and consistency not attainable in contributed works, this handbook draws on the authors' long experience in the field and takes full advantage of its rich literature.; The presentation of all types of induction machines complete with many numerical examples, digital simulations, and design sample cases make the Induction Machine Handbook a comprehensive, up-to-date resource ideal for both for practicing and student engineers.

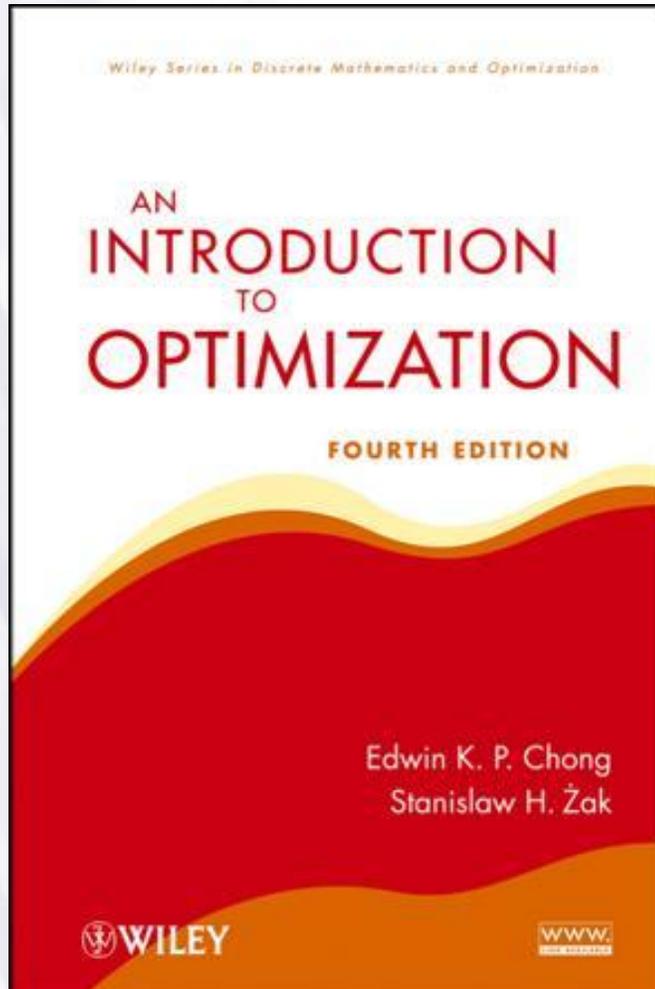


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An Introduction to Optimization

Written By: Chong, Edwin K. P.; Zak, Stanislaw H.

Published By: Wiley

Published In: 2014

DESCRIPCIÓN

- Praise for the Third Edition ". . . guides and leads the reader through the learning path . . . [e]xamples are stated very clearly and the results are presented with attention to detail." —MAA Reviews Fully updated to reflect new developments in the field, the Fourth Edition of Introduction to Optimization fills the need for accessible treatment of optimization theory and methods with an emphasis on engineering design. Basic definitions and notations are provided in addition to the related fundamental background for linear algebra, geometry, and calculus. This new edition explores the essential topics of unconstrained optimization problems, linear programming problems, and nonlinear constrained optimization. The authors also present an optimization perspective on global search methods and include discussions on genetic algorithms, particle swarm optimization, and the simulated annealing algorithm. Featuring an elementary introduction to artificial neural networks, convex optimization, and multi-objective optimization, the Fourth Edition also offers: A new chapter on integer programming Expanded coverage of one-dimensional methods Updated and expanded sections on linear matrix inequalities Numerous new exercises at the end of each chapter MATLAB exercises and drill problems to reinforce the discussed theory and algorithms Numerous diagrams and figures that complement the written presentation of key concepts MATLAB M-files for implementation of the discussed theory and algorithms (available via the book's website) Introduction to Optimization, Fourth Edition is an ideal textbook for courses on optimization theory and methods. In addition, the book is a useful reference for professionals in mathematics, operations research, electrical engineering, economics, statistics, and business.

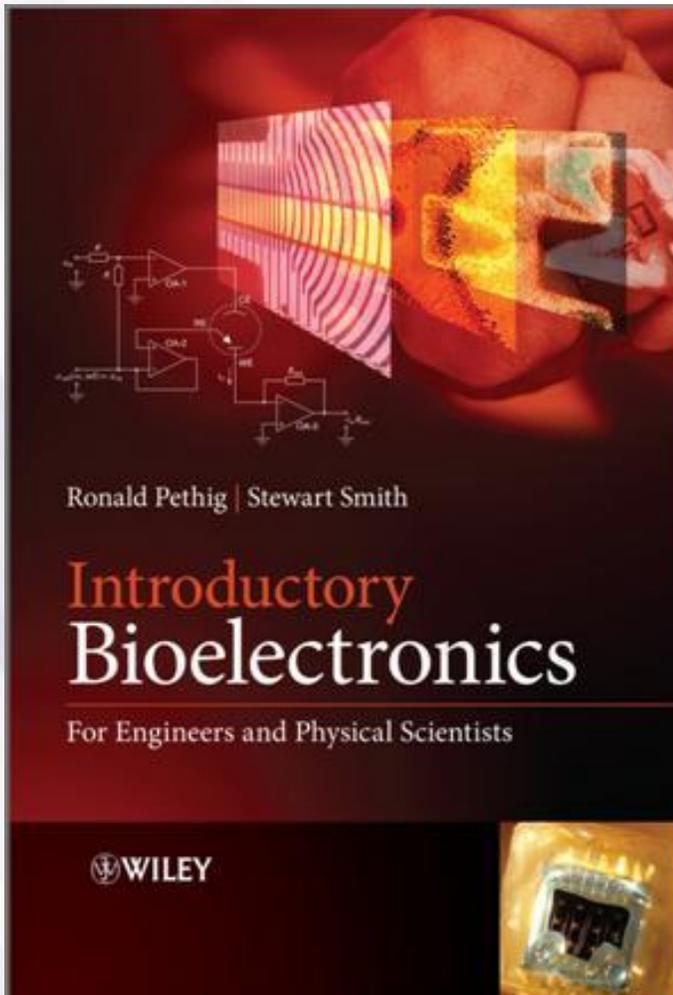


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Introductory Bioelectronics

Written By: Pethig, Ronald R.; Smith, Stewart

Published By: Wiley

Published In: 2012

DESCRIPCIÓN

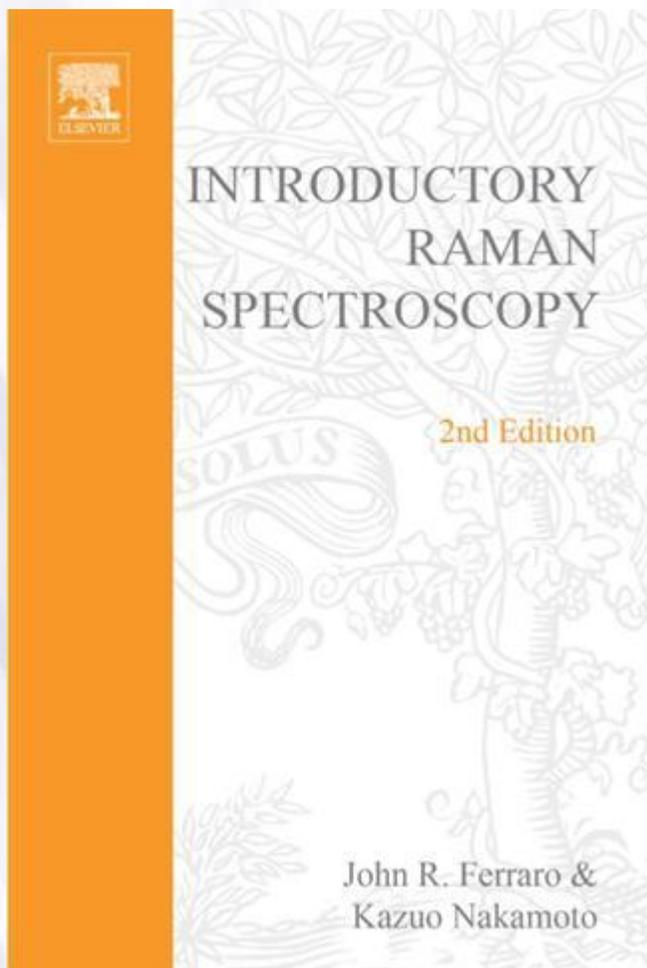
- Bioelectronics is a rich field of research involving the application of electronics engineering principles to biology, medicine, and the health sciences. With its interdisciplinary nature, bioelectronics spans state-of-the-art research at the interface between the life sciences, engineering and physical sciences. Introductory Bioelectronics offers a concise overview of the field and teaches the fundamentals of biochemical, biophysical, electrical, and physiological concepts relevant to bioelectronics. It is the first book to bring together these various topics, and to explain the basic theory and practical applications at an introductory level. The authors describe and contextualise the science by examining recent research and commercial applications. They also cover the design methods and forms of instrumentation that are required in the application of bioelectronics technology. The result is a unique book with the following key features: an interdisciplinary approach, which develops theory through practical examples and clinical applications, and delivers the necessary biological knowledge from an electronic engineer's perspective a problem section in each chapter that readers can use for self-assessment, with model answers given at the end of the book along with references to key scientific publications discussions of new developments in the bioelectronics and biosensors fields, such as micro fluidic devices and nanotechnology Supplying the tools to succeed, this text is the best resource for engineering and physical sciences students in bioelectronics, biomedical engineering and micro/nano-engineering. Not only that, it is also a resource for researchers without formal training in biology, who are entering PhD programmers or working on industrial projects in these areas.

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Introductory Raman Spectroscopy

Written By: Ferraro, John R.

Published By: Academic Press

Published In: 2003

DESCRIPCIÓN

- This second edition of Introductory Raman Spectroscopy serves as a guide to newcomers who wish to become acquainted with this dynamic technique. Written by three acknowledged experts this title uses examples to illustrate the usefulness of the technique of Raman spectroscopy in such diverse areas as forensic science, biochemistry, medical, pharmaceutical prescription and illicit drugs. The technique also has many uses in industry. Updated Applications chapter. Demonstrated the versatility and utility of Raman spectroscopy in problem solving in science. Serves as an excellent reference text for both beginners and more advanced students. Discusses new applications of Raman spectroscopy in industry and research

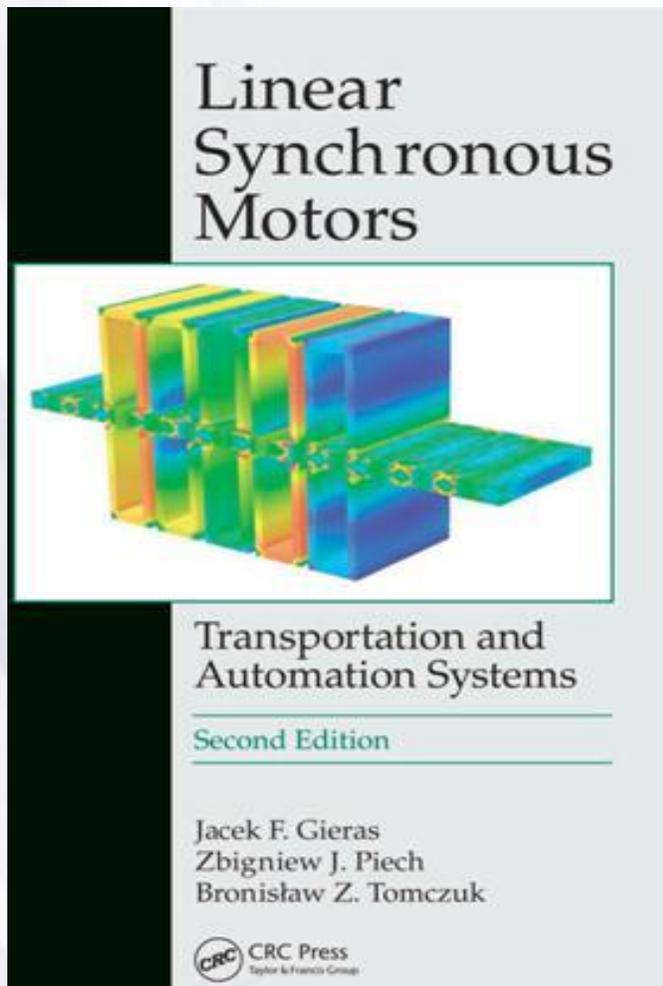


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Linear Synchronous Motors: Transportation and Automation Systems

Written By: Gieras, Jacek F.; Piech, Zbigniew J.; Tomczuk, Bronislaw Z.

Published By: CRC Press

Published In: 2011

DESCRIPCIÓN

- Considered to be the first book devoted to the subject, Linear Synchronous Motors: Transportation and Automation Systems, Second Edition evaluates the state of the art, demonstrating the technological innovations that are improving the design, construction, and performance of modern control systems. This new edition not only illustrates the development of linear synchronous motor drives, but it also discusses useful techniques for selecting a motor that will meet the specific requirements of linear electrical drives.

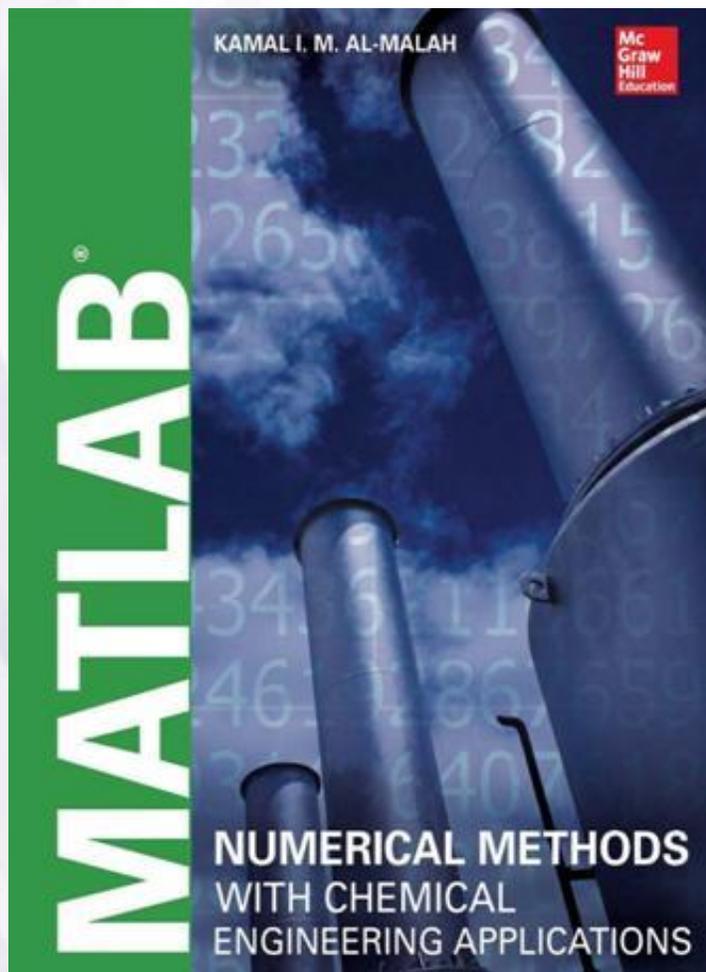


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MATLAB Numerical Methods with Chemical Engineering Applications

Written By: Al-Malah, Kamal

Published By: McGraw-Hill Professional

Published In: 2013

DESCRIPCIÓN

- A practical, professional guide to MATLAB computational techniques and engineering applications MATLAB Numerical Methods with Chemical Engineering Applications shows you, step by step, how to use MATLAB® to model and simulate physical problems in the chemical engineering realm. Written for MATLAB 7.11, this hands-on resource contains concise explanations of essential MATLAB commands, as well as easy-to-follow instructions for using the programming features, graphical capabilities, and desktop interface. Every step needed toward the final solution is algorithmically explained via snapshots of the MATLAB platform in parallel with the text. End-of-chapter problems help you practice what you've learned. Master this powerful computational tool using this detailed, self-teaching guide. **COVERAGE INCLUDES:**MATLAB basics Matrices MATLAB scripting language: M-file Image and image analysis Curve-fitting Numerical integration Solving differential equations A system of algebraic equations Statistics Chemical engineering applications MATLAB Graphical User Interface Design Environment (GUIDE)

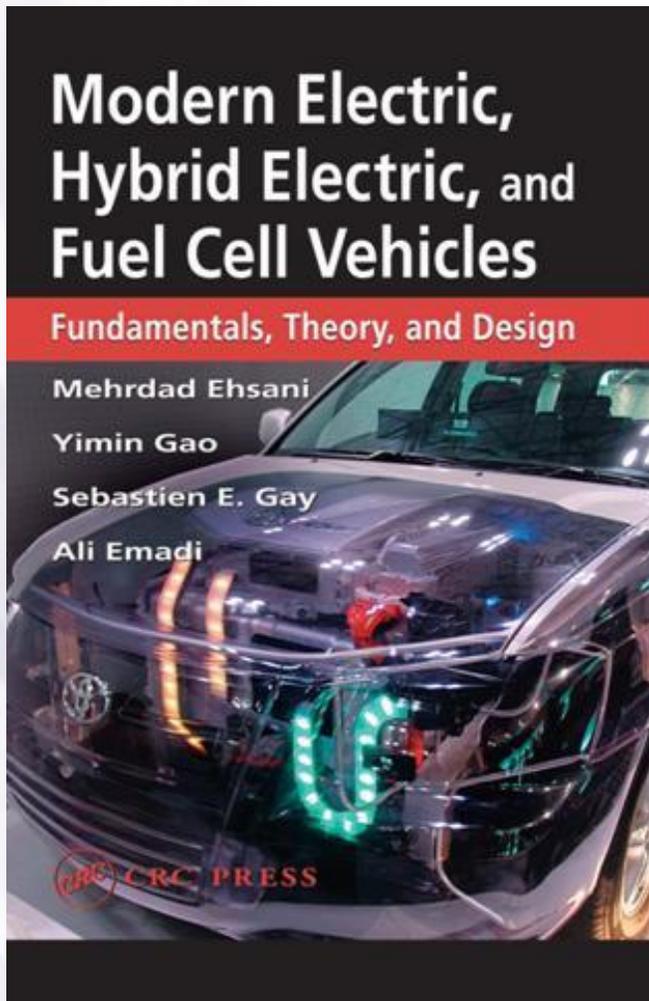


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Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design

Written By: Gao, Yimin; Gay, Sebastien E.; Emadi, Ali; Ehsani, Mehrdad

Published By: CRC Press

Published In: 2005

DESCRIPCIÓN

- The most complete, expert book on modern automobiles available, Modern Electric, Hybrid Electric, and Fuel Cell Vehicles covers the fundamentals, theory, and design of cars with internal combustion engines, electric vehicles, hybrid electric vehicles, and fuel cell vehicles. It examines the performance, configuration, control strategy, design methodology, modeling, and simulation of these different vehicles based on the mathematical equations. Writing in easy-to-understand language with nearly 300 illustrations, the authors emphasize the overall drive train system rather than specific components and describe the design methodology step by step, with design examples and simulation results.

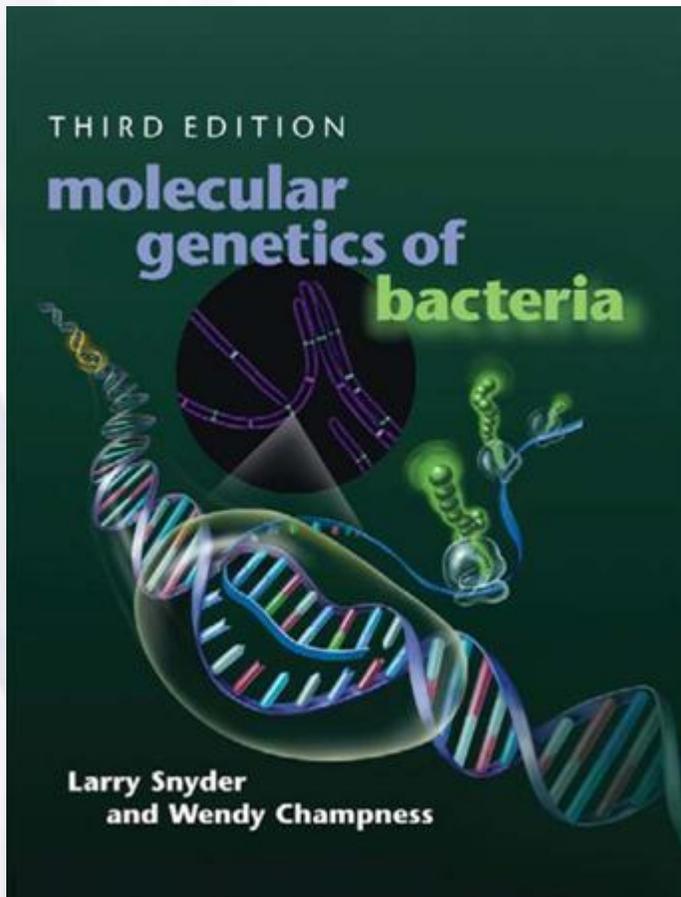


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Molecular Genetics of Bacteria

Written By: Snyder, Larry; Champness, Wendy

Published By: ASM Press

Published In: 2007

DESCRIPCIÓN

- This landmark volume provides the single most comprehensive and authoritative textbook on bacterial molecular genetics. Perfect for advanced undergraduate and graduate-level courses, the text presents the latest research on the subject in a clearly written and well-illustrated style.



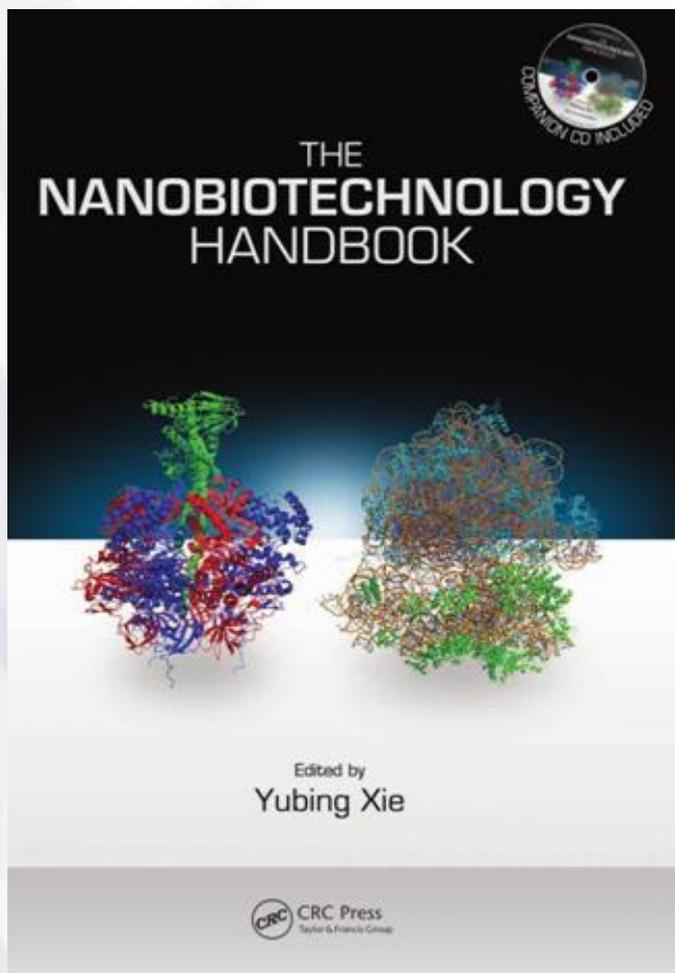
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The Nanobiotechnology Handbook

Written By: Xie, Yubing

Published By: CRC Press

Published In: 2012

DESCRIPCIÓN

- A thorough overview of nanobiotechnology and its place in advances in applied science and engineering, The Nanobiotechnology Handbook combines contributions from physics, bioorganic and bioinorganic chemistry, molecular and cellular biology, materials science, and medicine as well as from mechanical, electrical, chemical, and biomedical engineering to address the full scope of current and future developments. World-class experts discuss the role of nanobiotechnology in bioanalysis, biomolecular and biomedical nanotechnology, biosensors, biocatalysis and biofuel, and education and workforce development. It includes a companion CD that contains all figures in the book.

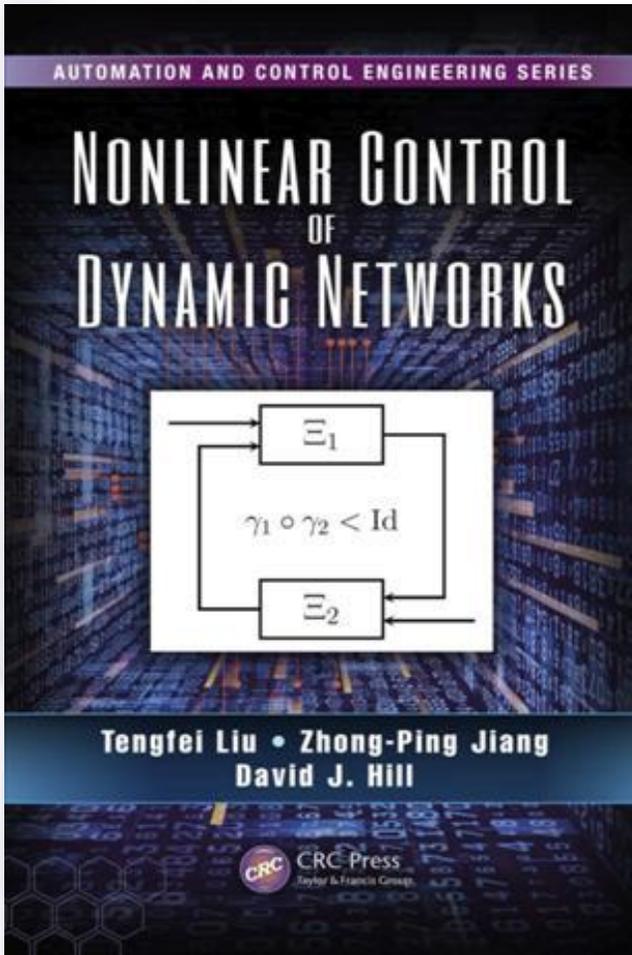


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Nonlinear Control of Dynamic Networks

Written By: Liu, Tengfei
Published By: CRC Press
Published In: 2014

DESCRIPCIÓN

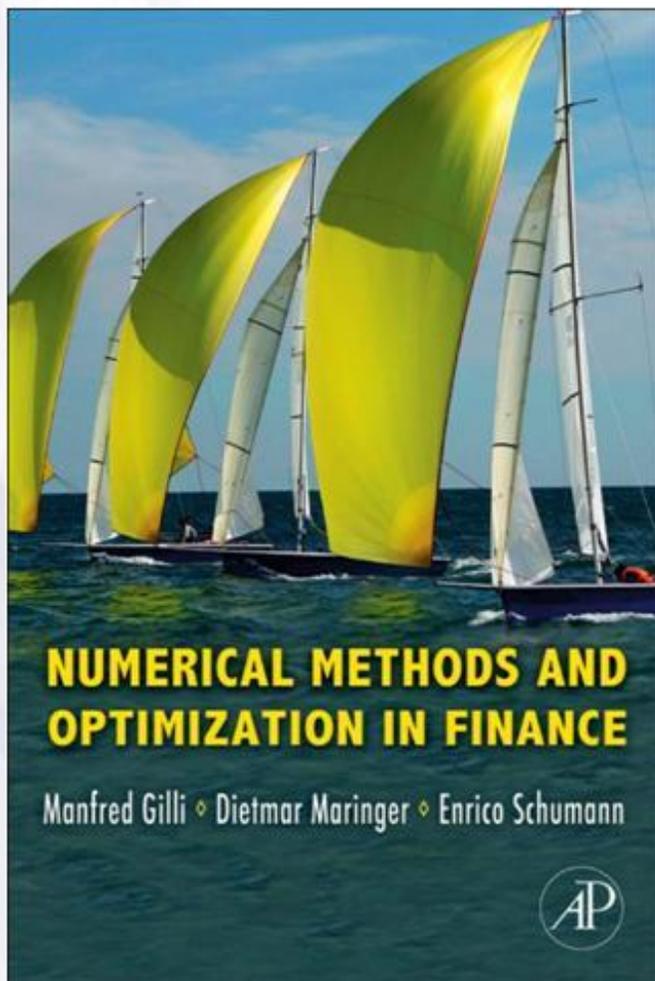
- Significant progress has been made on nonlinear control systems in the past two decades. However, many of the existing nonlinear control methods cannot be readily used to cope with communication and networking issues without nontrivial modifications. For example, small quantization errors may cause the performance of a "well-designed" nonlinear control system to deteriorate. Motivated by the need for new tools to solve complex problems resulting from smart power grids, biological processes, distributed computing networks, transportation networks, robotic systems, and other cutting-edge control applications, Nonlinear Control of Dynamic Networks tackles newly arising theoretical and real-world challenges for stability analysis and control design, including nonlinearity, dimensionality, uncertainty, and information constraints as well as behaviors stemming from quantization, data-sampling, and impulses. Delivering a systematic review of the nonlinear small-gain theorems, the text: Supplies novel cyclic-small-gain theorems for large-scale nonlinear dynamic networks Offers a cyclic-small-gain framework for nonlinear control with static or dynamic quantization Contains a combination of cyclic-small-gain and set-valued map designs for robust control of nonlinear uncertain systems subject to sensor noise Presents a cyclic-small-gain result in directed graphs and distributed control of nonlinear multi-agent systems with fixed or dynamically changing topology Based on the authors' recent research, Nonlinear Control of Dynamic Networks provides a unified framework for robust, quantized, and distributed control under information constraints. Suggesting avenues for further exploration, the book encourages readers to take into consideration more communication and networking issues in control designs to better handle the arising challenges.

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Numerical Methods and Optimization in Finance

Written By: Gilli, Manfred; Maringer, Dietmar; Schumann, Enrico

Published By: Academic Press

Published In: 2011

DESCRIPCIÓN

- This book describes computational finance tools. It covers fundamental numerical analysis and computational techniques, such as option pricing, and gives special attention to simulation and optimization. Many chapters are organized as case studies around portfolio insurance and risk estimation problems. In particular, several chapters explain optimization heuristics and how to use them for portfolio selection and in calibration of estimation and option pricing models. Such practical examples allow readers to learn the steps for solving specific problems and apply these steps to others. At the same time, the applications are relevant enough to make the book a useful reference. Matlab and R sample code is provided in the text and can be downloaded from the book's website. Shows ways to build and implement tools that help test ideas Focuses on the application of heuristics; standard methods receive limited attention Presents as separate chapters problems from portfolio optimization, estimation of econometric models, and calibration of option pricing models

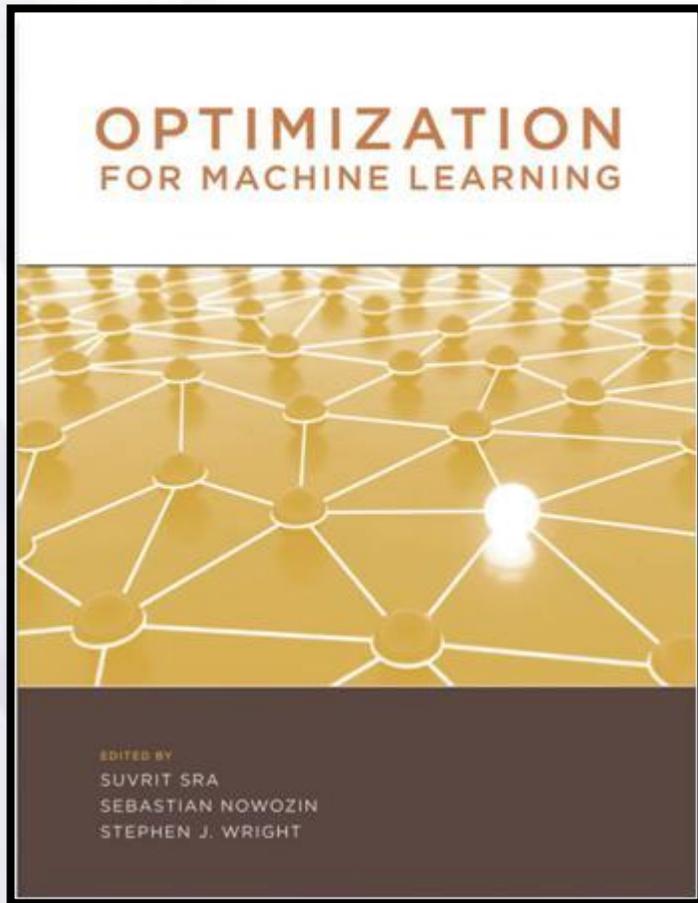


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Optimization for Machine Learning

Written By: Sra, Suvrit; Nowozin, Sebastian; Wright, Stephen J.

Published By: MIT Press

Published In: 2011

DESCRIPCIÓN

- The interplay between optimization and machine learning is one of the most important developments in modern computational science. Optimization formulations and methods are proving to be vital in designing algorithms to extract essential knowledge from huge volumes of data. Machine learning, however, is not simply a consumer of optimization technology but a rapidly evolving field that is itself generating new optimization ideas. This book captures the state of the art of the interaction between optimization and machine learning in a way that is accessible to researchers in both fields.
- Optimization approaches have enjoyed prominence in machine learning because of their wide applicability and attractive theoretical properties. The increasing complexity, size, and variety of today's machine learning models call for the reassessment of existing assumptions. This book starts the process of reassessment. It describes the resurgence in novel contexts of established frameworks such as first-order methods, stochastic approximations, convex relaxations, interior-point methods, and proximal methods. It also devotes attention to newer themes such as regularized optimization, robust optimization, gradient and subgradient methods, splitting techniques, and second-order methods. Many of these techniques draw inspiration from other fields, including operations research, theoretical computer science, and subfields of optimization. The book will enrich the ongoing cross-fertilization between the machine learning community and these other fields, and within the broader optimization community.



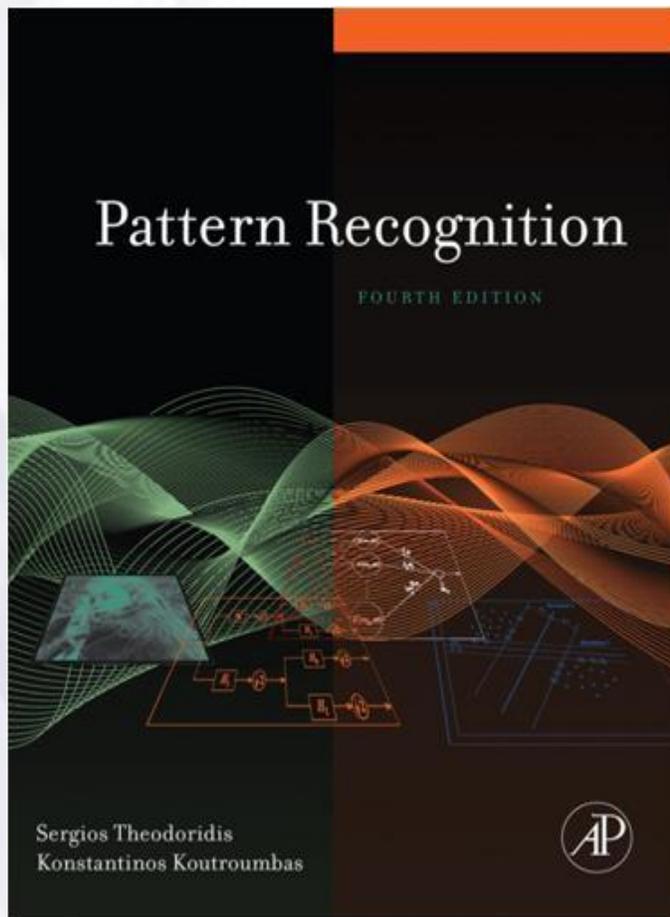
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Pattern Recognition

Written By: Theodoridis, Sergios; Koutroumbas, Konstantinos; Koutroumbas, Konstantinos

Published By: Academic Press

Published In: 2008

DESCRIPCIÓN

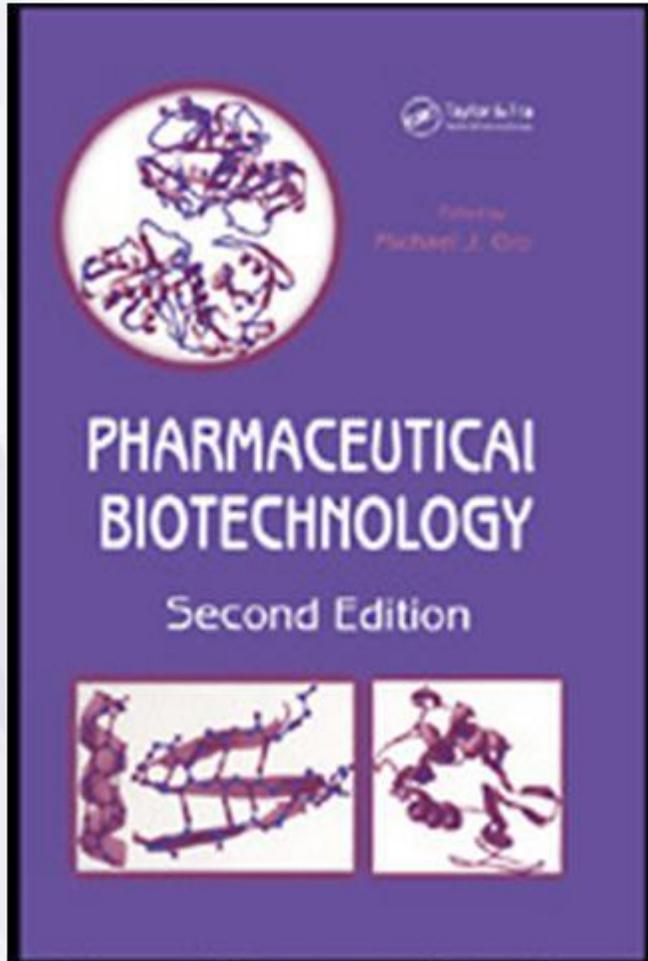
- This book considers classical and current theory and practice, of supervised, unsupervised and semi-supervised pattern recognition, to build a complete background for professionals and students of engineering. The authors, leading experts in the field of pattern recognition, have provided an up-to-date, self-contained volume encapsulating this wide spectrum of information. The very latest methods are incorporated in this edition: semi-supervised learning, combining clustering algorithms, and relevance feedback. · Thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques · Many more diagrams included--now in two color--to provide greater insight through visual presentation · Matlab code of the most common methods are given at the end of each chapter. · More Matlab code is available, together with an accompanying manual, via this site · Latest hot topics included to further the reference value of the text including non-linear dimensionality reduction techniques, relevance feedback, semi-supervised learning, spectral clustering, combining clustering algorithms. · An accompanying book with Matlab code of the most common methods and algorithms in the book, together with a descriptive summary, and solved examples including real-life data sets in imaging, and audio recognition. The companion book will be available separately or at a special packaged price (ISBN: 9780123744869). Thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques Many more diagrams included--now in two color--to provide greater insight through visual presentation Matlab code of the most common methods are given at the end of each chapter An accompanying book with Matlab code of the most common methods and algorithms in the book, together with a descriptive summary and solved examples, and including real-life data sets in imaging and audio recognition.

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Pharmaceutical Biotechnology

Written By: Groves, Michael J.

Published By: Taylor & Francis

Published In: 2005

DESCRIPCIÓN

- Since the publication of the first edition of "Pharmaceutical Biotechnology" over a decade ago, a not-so-subtle shift in the meaning of the term "biotechnology" has occurred. It has come to mean something very specific, namely the development of drug substances with large protein and polypeptide molecules. These substances can be used as drugs in their own right but may also be used to manipulate cellular DNA in order to produce a required molecule that is believed to have desirable properties in the treatment of a disease. Accordingly, the second edition of this popular text reflects that change of definition by including new material that explores the development of these protein-based therapeutic substances.; See what's new in the Second Edition: Expanded coverage of the formulation of proteins; additional information on proteins used as drug delivery systems; detailed discussion of interactions between proteins and phospholipids; increased information on proteomics and gene therapy; exploration of pulmonary administration and oral delivery of proteins; a broad review of vaccines; discussion of genetic engineering and genomics; challenges and issues involved in the development and the production of a drug.

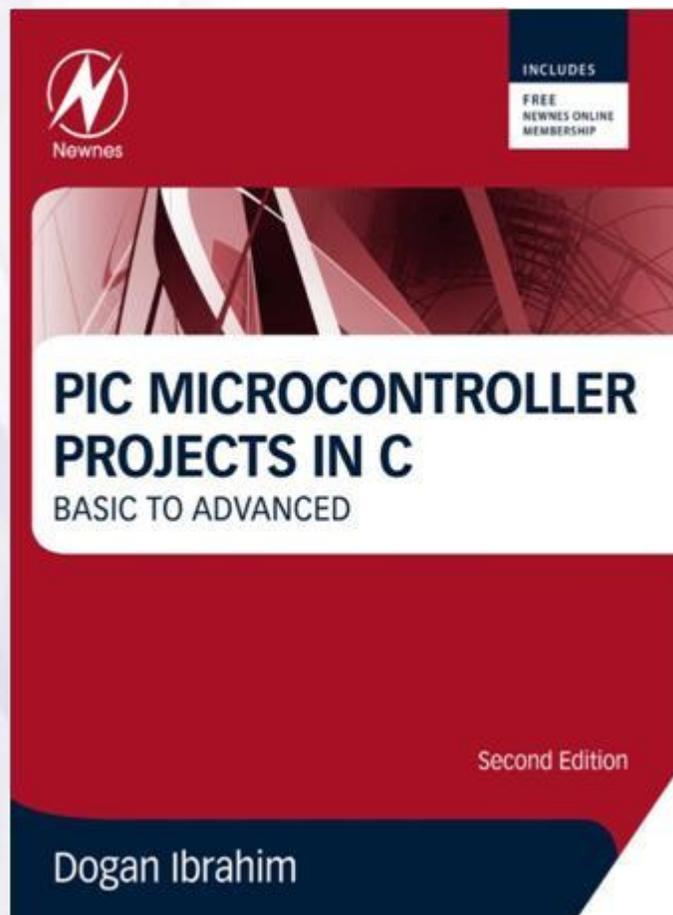


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PIC Microcontroller Projects in C : Basic to Advanced

Written By: Ibrahim, Dogan

Published By: Newnes

Published In: 2014

DESCRIPCIÓN

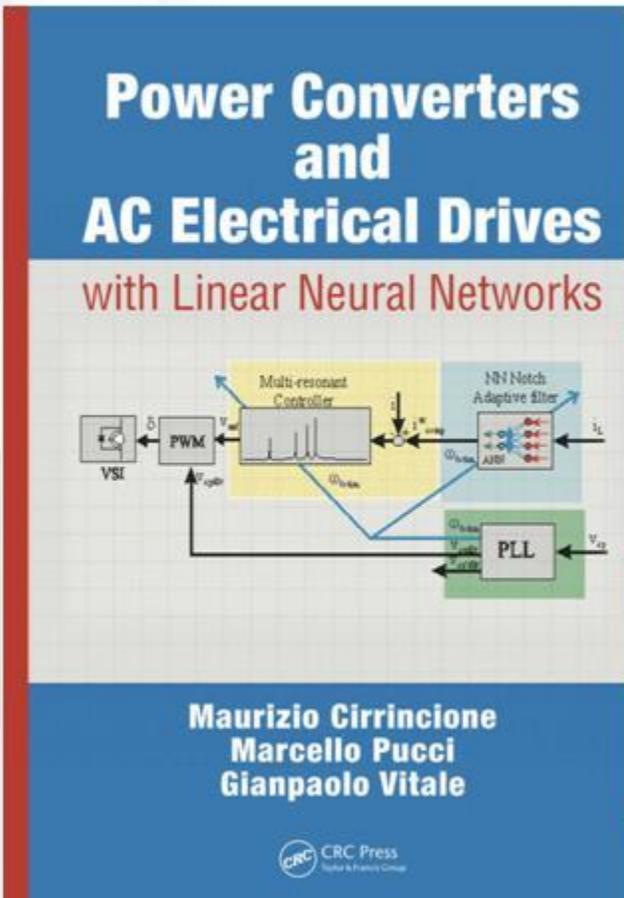
- Extensively revised and updated to encompass the latest developments in the PIC 18FXXX series, this book demonstrates how to develop a range of microcontroller applications through a project-based approach. After giving an introduction to programming in C using the popular mikroC Pro for PIC and MPLAB XC8 languages, this book describes the project development cycle in full. The book walks you through fully tried and tested hands-on projects, including many new, advanced topics such as Ethernet programming, digital signal processing, and Rfid technology. This book is ideal for engineers, technicians, hobbyists and students who have knowledge of the basic principles of PIC microcontrollers and want to develop more advanced applications using the PIC18F series. This book Includes over fifty projects which are divided into three categories: Basic, Intermediate, and Advanced. New projects in this edition: Logic probe Custom LCD font design Hi/Lo game Generating various waveforms in real-time Ultrasonic height measurement Frequency counter Reaction timer GPS projects Closed-loop ON/OFF temperature control Bluetooth projects (master and slave) Rfid projects Clock using Real-time-clock (RTC) chip RTC alarm project Graphics LCD (GLCD) projects Barometer+thermometer+altimeter project Plotting temperature on GLCD Ethernet web browser based control Ethernet UDP based control Digital signal processing (Low Pass Filter design) Automotive LIN bus project Automotive CAN bus project Multitasking projects (using both cooperative and Round-robin scheduling) Unipolar stepper motor projects Bipolar stepper motor projects Closed-loop ON/OFF DC motor control A clear introduction to the PIC 18FXXX microcontroller's architecture Covers developing wireless and sensor network applications, SD card projects, and multi-tasking; all demonstrated with the block and circuit diagram, program description in PDL, program listing, and program description Includes more than 50 basic, intermediate, and advanced projects



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Power Converters and AC Electrical Drives with Linear Neural Networks

Written By: Cirrincione, Maurizio

Published By: CRC Press

Published In: 2012

DESCRIPCIÓN

- The first book of its kind, Power Converters and AC Electrical Drives with Linear Neural Networks systematically explores the application of neural networks in the field of power electronics, with particular emphasis on the sensorless control of AC drives. It presents the classical theory based on space-vectors in identification, discusses control of electrical drives and power converters, and examines improvements that can be attained when using linear neural networks.
- The book integrates power electronics and electrical drives with artificial neural networks (ANN). Organized into four parts, it first deals with voltage source inverters and their control. It then covers AC electrical drive control, focusing on induction and permanent magnet synchronous motor drives. The third part examines theoretical aspects of linear neural networks, particularly the neural EXIN family. The fourth part highlights original applications in electrical drives and power quality, ranging from neural-based parameter estimation and sensorless control to distributed generation systems from renewable sources and active power filters. Simulation and experimental results are provided to validate the theories.

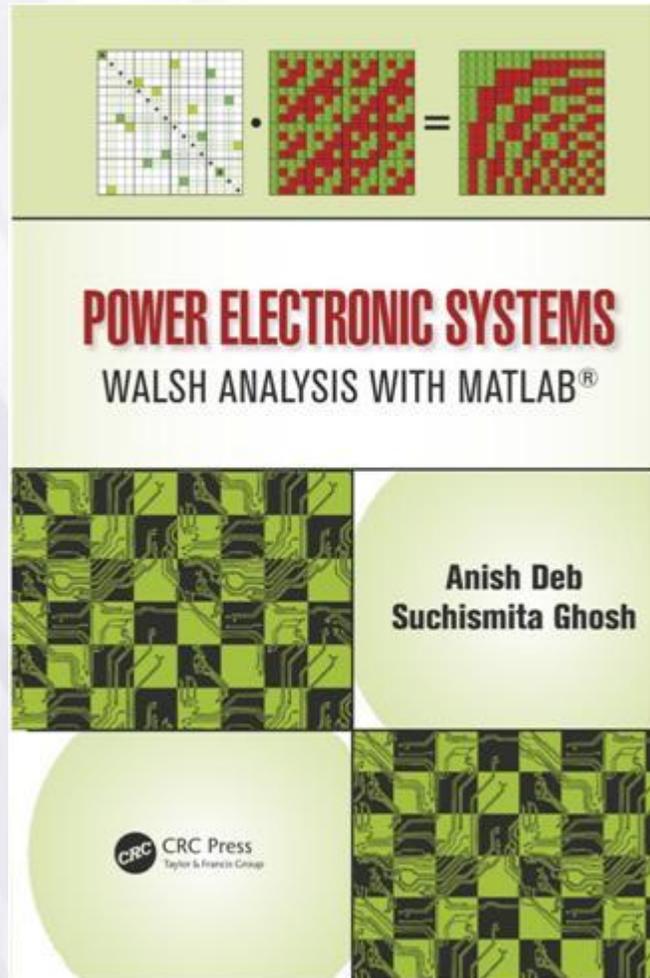


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Power Electronic Systems: Walsh Analysis with MATLAB®

Written By: Deb, Anish

Published By: CRC Press

Published In: 2014

DESCRIPCIÓN

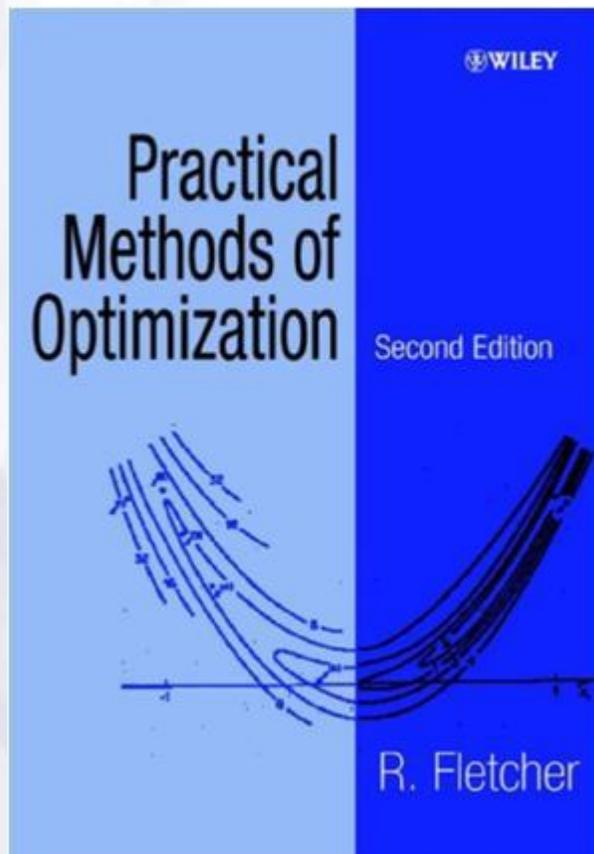
- A Totally Different Outlook on Power Electronic System Analysis Power Electronic Systems: Walsh Analysis with MATLAB® builds a case for Walsh analysis as a powerful tool in the study of power electronic systems. It considers the application of Walsh functions in analyzing power electronic systems, and the advantages offered by Walsh domain analysis of power electronic systems. Solves Power Electronic Systems in an Unconventional Way This book successfully integrates power electronics as well as systems and control. Incorporating a complete orthonormal function set very much unlike the sine–cosine functions, it introduces a blending between piecewise constant orthogonal functions and power electronic systems. It explores the background and evolution of power electronics, and discusses Walsh and related orthogonal basis functions. It develops the mathematical foundation of Walsh analysis, and first- and second-order system analyses by Walsh technique. It also describes the Walsh domain operational method and how it is applied to linear system analysis. Introduces Theories Step by Step While presenting the underlying principles of Walsh analysis, the authors incorporate many illustrative examples, and include a basic introduction to linear algebra and MATLAB® programs. They also examine different orthogonal piecewise constant basis functions like Haar, Walsh, slant, block pulse functions, and other related orthogonal functions along with their time scale evolution. • Analyzes pulse–fed single input single output (SISO) first- and second-order systems • Considers stepwise and continuously pulse width modulated chopper systems • Describes a detailed analysis of controlled rectifier circuits • Addresses inverter circuits Power Electronic Systems: Walsh Analysis with MATLAB® is written for postgraduate students, researchers, and academicians in the area of power electronics as well as systems and control.

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Practical Methods of Optimization

Written By: Fletcher, R.

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- Fully describes optimization methods that are currently most valuable in solving real-life problems. Since optimization has applications in almost every branch of science and technology, the text emphasizes their practical aspects in conjunction with the heuristics useful in making them perform more reliably and efficiently. To this end, it presents comparative numerical studies to give readers a feel for possible applications and to illustrate the problems in assessing evidence. Also provides theoretical background which provides insights into how methods are derived. This edition offers revised coverage of basic theory and standard techniques, with updated discussions of line search methods, Newton and quasi-Newton methods, and conjugate direction methods, as well as a comprehensive treatment of restricted step or trust region methods not commonly found in the literature. Also includes recent developments in hybrid methods for nonlinear least squares; an extended discussion of linear programming, with new methods for stable updating of LU factors; and a completely new section on network programming. Chapters include computer subroutines, worked examples, and study questions.



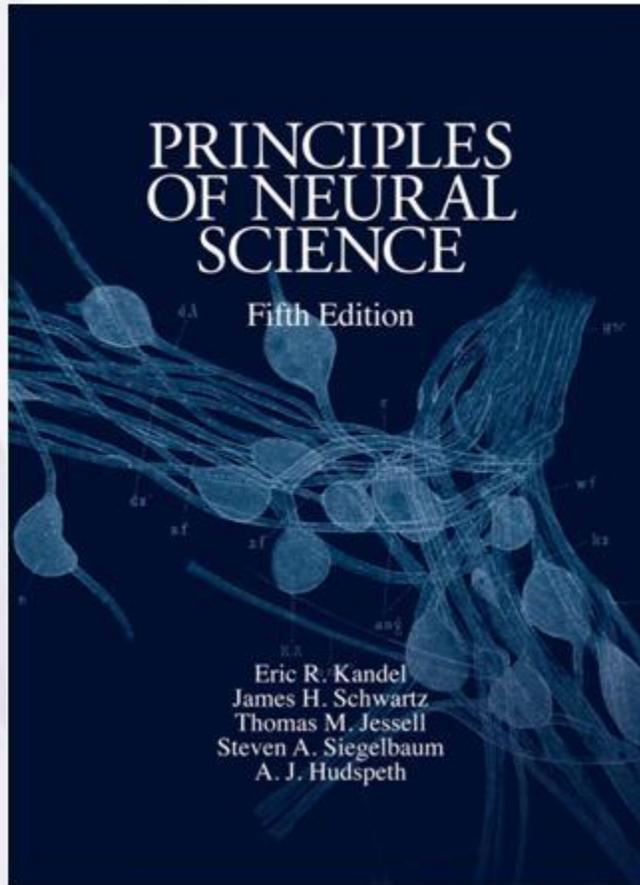
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Principles of Neural Science

Written By: Kandel, Eric;Schwartz, James

Published By: McGraw-Hill Professional

Published In: 2012

DESCRIPCIÓN

- The sequencing of the human genome, and advances in molecular biology, have illuminated the pathogenesis of many neurological diseases and have propelled our knowledge of how the brain controls behavior. To grasp the wider implications of these developments and gain a fundamental understanding of this dynamic, fast-moving field, Principles of Neuroscience stands alone as the most authoritative and indispensable resource of its kind. In this classic text, prominent researchers in the field expertly survey the entire spectrum of neural science, giving an up-to-date, unparalleled view of the discipline for anyone who studies brain and mind. Here, in one remarkable volume, is the current state of neural science knowledge—ranging from molecules and cells, to anatomic structures and systems, to the senses and cognitive functions—all supported by more than 900 precise, full-color illustrations. In addition to clarifying complex topics, the book also benefits from a cohesive organization, beginning with an insightful overview of the interrelationships between the brain, nervous system, genes, and behavior. Principles of Neural Science then proceeds with an in-depth examination of the molecular and cellular biology of nerve cells, synaptic transmission, and the neural basis of cognition. The remaining sections illuminate how cells, molecules, and systems give us sight, hearing, touch, movement, thought, learning, memories, and emotions. The new fifth edition of Principles of Neural Science is thoroughly updated to reflect the tremendous amount of research, and the very latest clinical perspectives, that have significantly transformed the field within the last decade. Ultimately, Principles of Neural Science affirms that all behavior is an expression of neural activity, and that the future of clinical neurology and psychiatry hinges on the progress of neural science. Far exceeding the scope and scholarship of similar texts, this unmatched guide offers a commanding, scientifically rigorous perspective on the molecular mechanisms of neural function and disease—one that you'll continually rely on to advance your comprehension of brain, mind, and behavior.



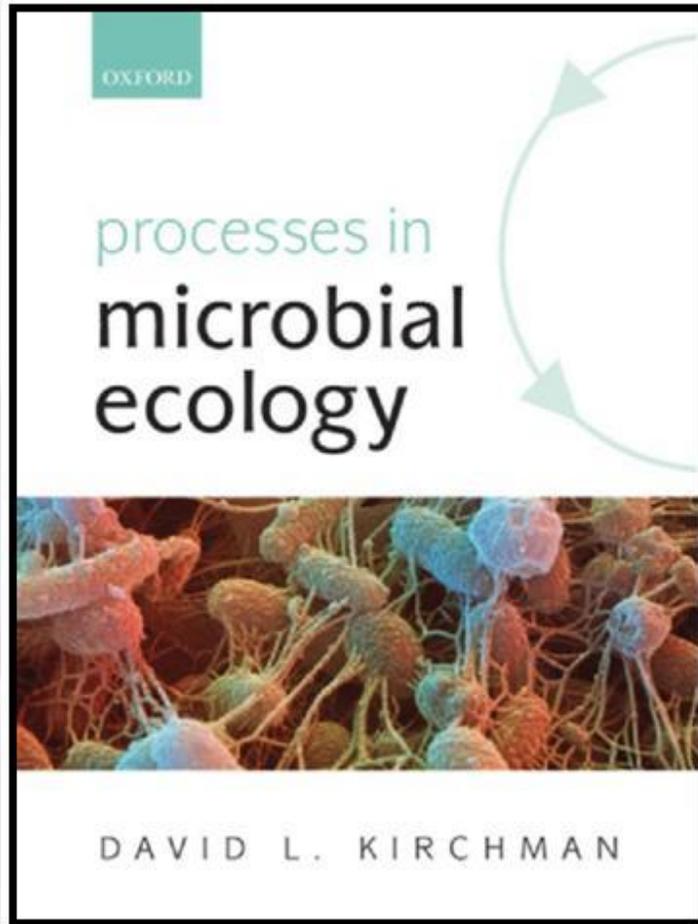
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Processes in Microbial Ecology

Written By: Kirchman, David L.

Published By: Oxford University Press, USA

Published In: 2012

DESCRIPCIÓN

- Microbial ecology is the study of interactions among microbes in natural environments and their roles in biogeochemical cycles, food web dynamics, and the evolution of life. Microbes are the most numerous organisms in the biosphere and mediate many critical reactions in elemental cycles and biogeochemical reactions. Because microbes are essential players in the carbon cycle and related processes, microbial ecology is a vital science for understanding the role of the biosphere in global warming and the response of natural ecosystems to climate change. This novel textbook discusses the major processes carried out by viruses, bacteria, fungi, protozoa and other protists - the microbes - in freshwater, marine, and terrestrial ecosystems. It focuses on biogeochemical processes, starting with primary production and the initial fixation of carbon into cellular biomass, before exploring how that carbon is degraded in both oxygen-rich (oxic) and oxygen-deficient (anoxic) environments. These biogeochemical processes are affected by ecological interactions, including competition for limiting nutrients, viral lysis, and predation by various protists in soils and aquatic habitats. The book neatly connects processes occurring at the micron scale to events happening at the global scale, including the carbon cycle and its connection to climate change issues. A final chapter is devoted to symbiosis and other relationships between microbes and larger organisms. Microbes have huge impacts not only on biogeochemical cycles, but also on the ecology and evolution of more complex forms of life, including Homo sapiens..



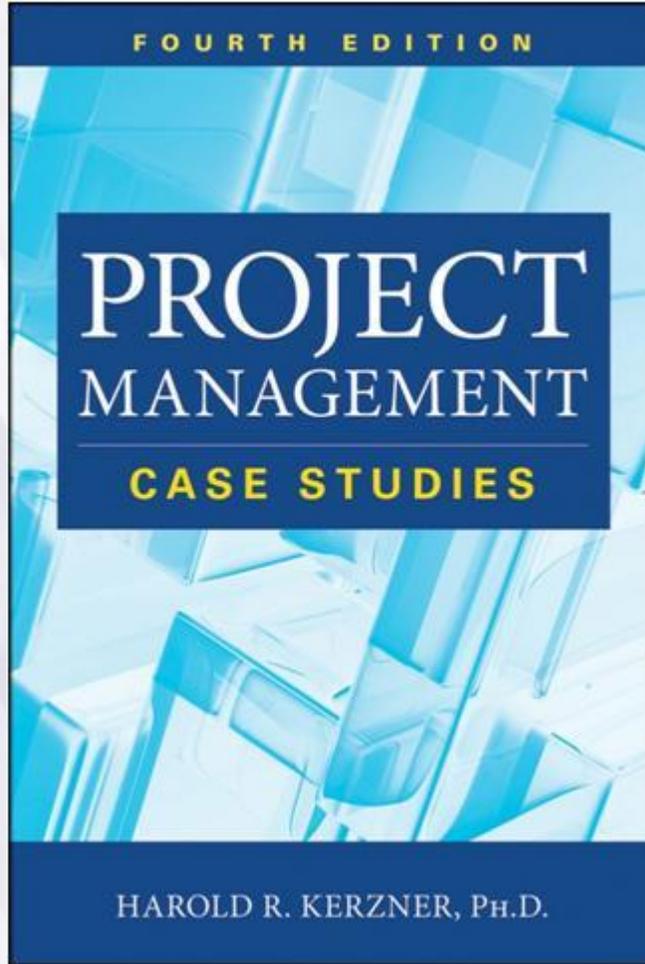
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Project Management

Written By: Kerzner, Harold

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- Providing a comprehensive collection of case studies in one accessible volume, Project Management Case Studies features one hundred cases drawn from real companies that illustrate both successful and poor implementation of project management. Covering broad areas of project management plus construction and international project management, this fourth edition of the most popular book of project management case studies maintains the popular "super case" on the Iridium Project. Project Management Case Studies supplements any textbook on the subject.

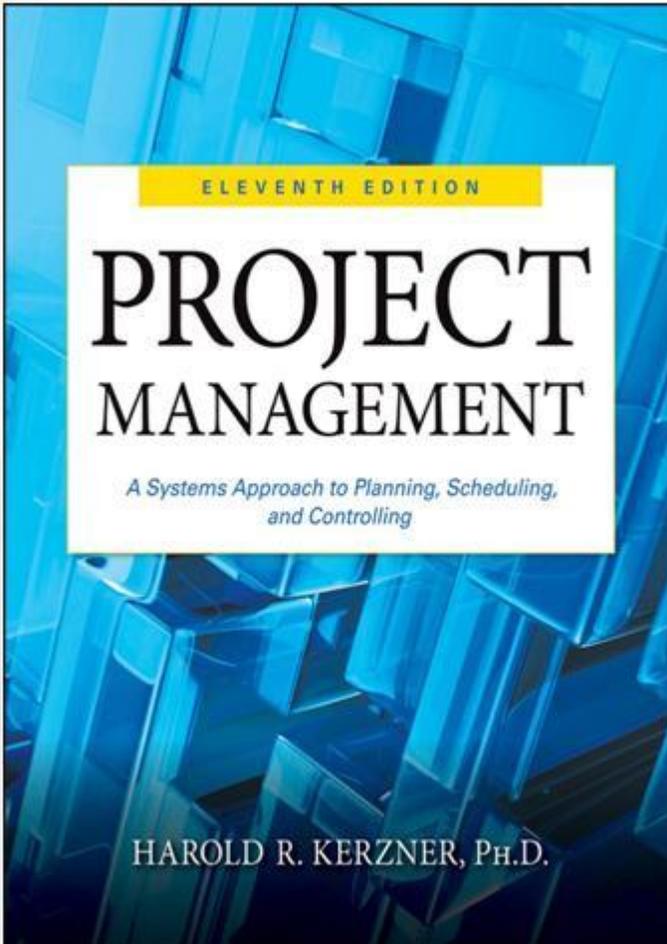


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Project Management

Written By: Kerzner, Harold

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- The latest edition of the best selling "bible" of project management, Project Management, 11th Edition maintains the streamlined approach of the prior editions. This edition is closely aligned with PMI's Project Management Body of Knowledge (PMBOK), Fifth Edition. New content includes measuring project management ROI and value to the organization and to customers. The capstone "super" case on the "Iridium Project" covers all aspects of project management. A Student Workbook, Instructor's Manual, and a book of case studies help students prepare for the Project Management Professional (PMP) certification exam.



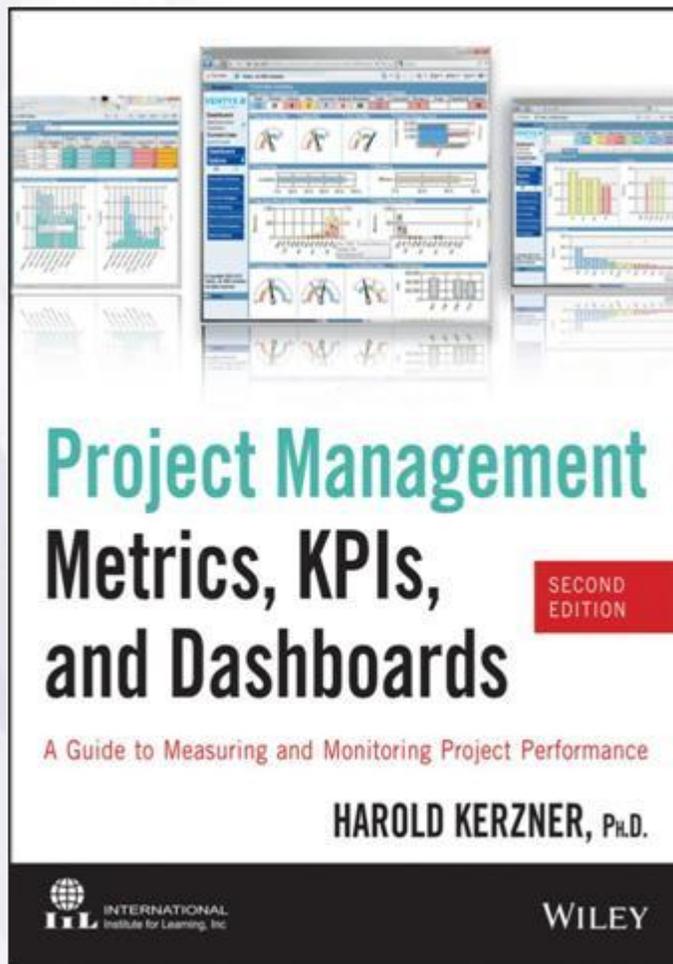
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Project Management Metrics, KPIs, and Dashboards : A Guide to Measuring and Monitoring Project Performance

Written By: Kerzner, Harold R.

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

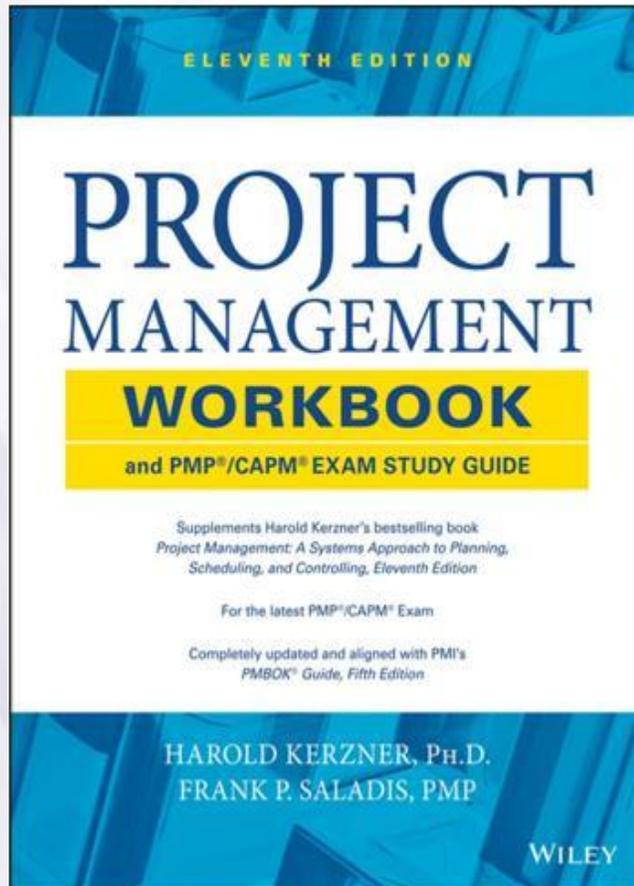
- The new edition of Harold Kerzner's bestselling book on measuring project management performance. With today's complex projects, increased stakeholder involvement, and advances in computer technology, metrics and key performance indicators (KPIs) have become increasingly integral to informed decision-making and effective project management. Project Management Metrics, KPIs, and Dashboards, Second Edition helps functional managers gain a thorough grasp of what metrics and KPIs are and how to use them, as well as an understanding of different dashboard types, design issues, and applications. Closely aligned with PMI's PMBOK® Guide, this new edition features: New content on topics ranging from customer relations management and project oversight to agile and SCRUM metrics, as well as metrics, pitfalls, and myths. An emphasis on value, including an in-depth discussion of value-driven metrics and value-driven KPIs. Full-color screen shots showing dashboards from some of the most successful project management companies. PowerPoint slides and a test bank for use in seminar presentations and courses. This book allows functional managers to bolster their awareness of what good metrics management really entails today—and be armed with the knowledge to measure performance more effectively.

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Project Management Workbook and PMP / CAPM Exam Study Guide

Written By: Kerzner, Harold R.; Saladis, Frank P.

Published By: Wiley

Published In: 2013

DESCRIPCIÓN

- This is the Eleventh Edition of the student workbook that accompanies the best selling "bible" of project management. The workbook contains additional problems and exercises to reinforce the concepts presented in the main text. It also serves as a self-study guide for the Project Management Professional (PMP) certification exam to be based on PMI's PMBOK Guide, 5E. Both as accompanying supplement to Kerzner's text and as standalone self-study guide, this workbook gives students key insights from the acknowledged world leader in project management.



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Quantum Enigma: Physics Encounters Consciousness

*Bruce Rosenblum
Fred Kuttner*

OXFORD UNIVERSITY PRESS

Quantum Enigma: Physics Encounters Consciousness

Written By: Rosenblum, Bruce; Kuttner, Fred

Published By: Oxford University Press, USA

Published In: 2006

DESCRIPCIÓN

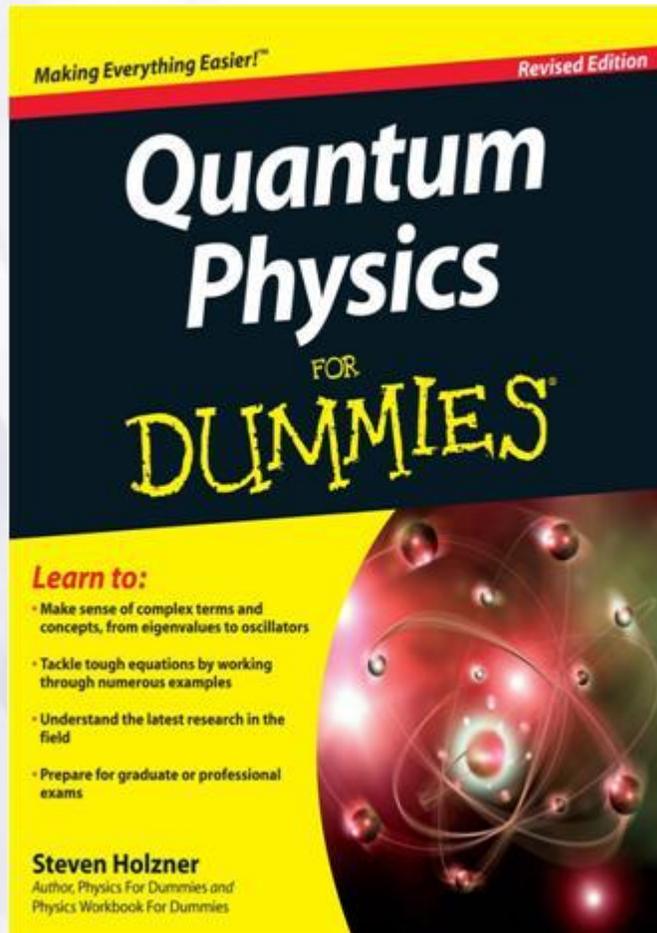
- The most successful theory in all of science - and the basis of one third of our economy - says the strangest things about the world and about us. Can you believe that physical reality is created by our observation of it? Physicists were forced to this conclusion, the quantum enigma, by what they observed in their laboratories. Trying to understand the atom, physicists built quantum mechanics and found, to their embarrassment, that their theory intimately connects consciousness with the physical world. "Quantum Enigma" explores what that implies and why some founders of the theory became the foremost objectors to it. Schrodinger showed that it "absurdly" allowed a cat to be in a "superposition" simultaneously dead and alive. Einstein derided the theory's "spooky interactions." With Bell's Theorem, we now know Schrodinger's superpositions and Einstein's spooky interactions indeed exist. Authors Bruce Rosenblum and Fred Kuttner explain all of this in non-technical terms with help from some fanciful stories and bits about the theory's developers. They present the quantum mystery honestly, with an emphasis on what is and what is not speculation.; Physics' encounter with consciousness is its skeleton in the closet. Because the authors open the closet and examine the skeleton, theirs is a controversial book. "Quantum Enigma's" description of the experimental quantum facts, and the quantum theory explaining them, is undisputed. Interpreting what it all means, however, is controversial. Every interpretation of quantum physics encounters consciousness. Rosenblum and Kuttner therefore turn to exploring consciousness itself - and encounter quantum physics. Free will and anthropic principles become crucial issues, and the connection of consciousness with the cosmos suggested by some leading quantum cosmologists is mind-blowing. Readers are brought to a boundary where the particular expertise of physicists is no longer a sure guide. They will find, instead, the facts and hints provided by quantum mechanics and the ability to speculate for themselves.

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Quantum Physics For Dummies

Written By: Holzner, Steve

Published By: For Dummies

Published In: 2013

DESCRIPCIÓN

- Quantum Physics For Dummies, Revised Edition helps make quantum physics understandable and accessible. From what quantum physics can do for the world to understanding hydrogen atoms, readers will get complete coverage of the subject, along with numerous examples to help them tackle the tough equations. Compatible with classroom text books and courses, Quantum Physics For Dummies, Revised Edition lets students study at their own paces and helps them prepare for graduate or professional exams. Coverage includes:
 - The Schrodinger Equation and its Applications
 - The Foundations of Quantum Physics
 - Vector Notation
 - Spin
 - Scattering Theory, Angular Momentum, and more

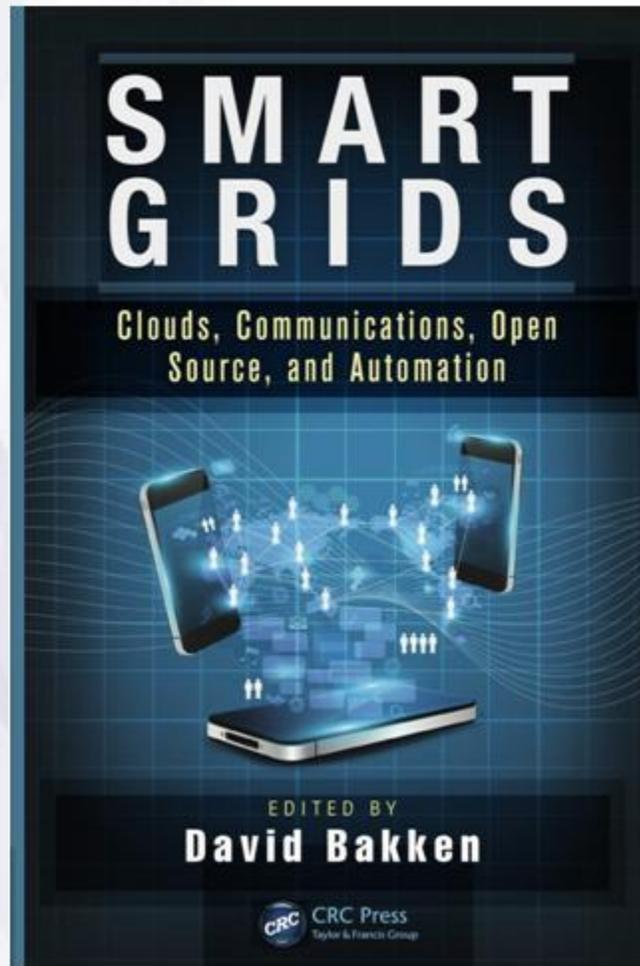


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Smart Grids: Clouds, Communications, Open Source, and Automation

Written By: Bakken, David

Published By: CRC Press

Published In: 2014

DESCRIPCIÓN

- The utilization of sensors, communications, and computer technologies to create greater efficiency in the generation, transmission, distribution, and consumption of electricity will enable better management of the electric power system. As the use of smart grid technologies grows, utilities will be able to automate meter reading and billing and consumers will be more aware of their energy usage and the associated costs. The results will require utilities and their suppliers to develop new business models, strategies, and processes. With an emphasis on reducing costs and improving return on investment (ROI) for utilities, Smart Grids: Clouds, Communications, Open Source, and Automation explores the design and implementation of smart grid technologies, considering the benefits to consumers as well as businesses. Focusing on industrial applications, the text: Provides a state-of-the-art account of the smart grid Explains how smart grid technologies are currently being used Includes detailed examples and test cases for real-life implementation Discusses trade-offs associated with the utilization of smart grid technologies Describes smart grid simulation software and offers insight into the future of the smart grid The electric power grid is in the early stages of a sea of change. Nobody knows which business models will survive, but companies heeding the lessons found in Smart Grids: Clouds, Communications, Open Source, and Automation might just increase their chances for success.



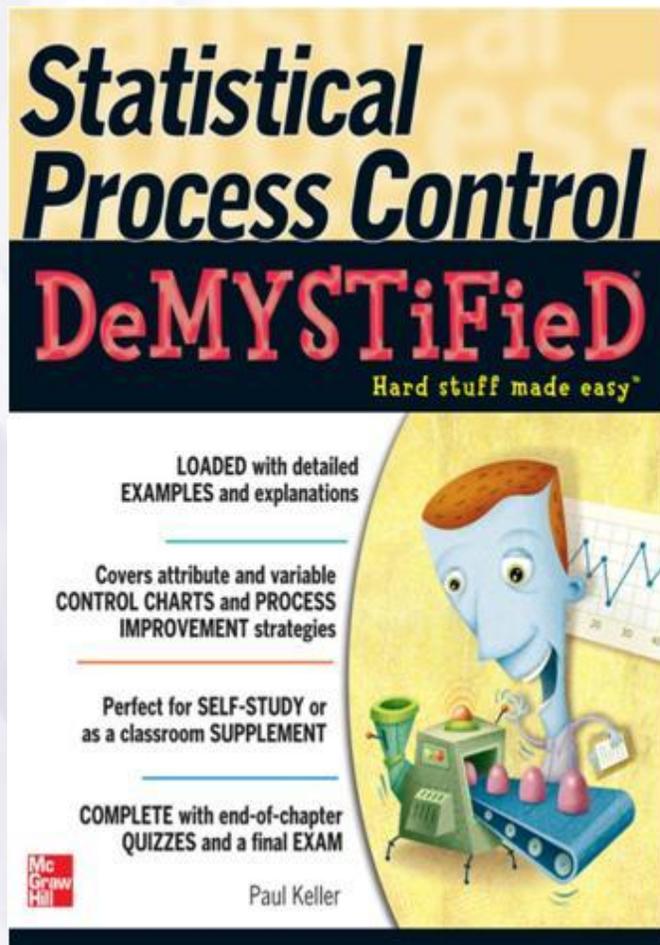
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Statistical Process Control Demystified

Written By: Keller, Paul

Published By: McGraw-Hill Professional

Published In: 2011

DESCRIPCIÓN

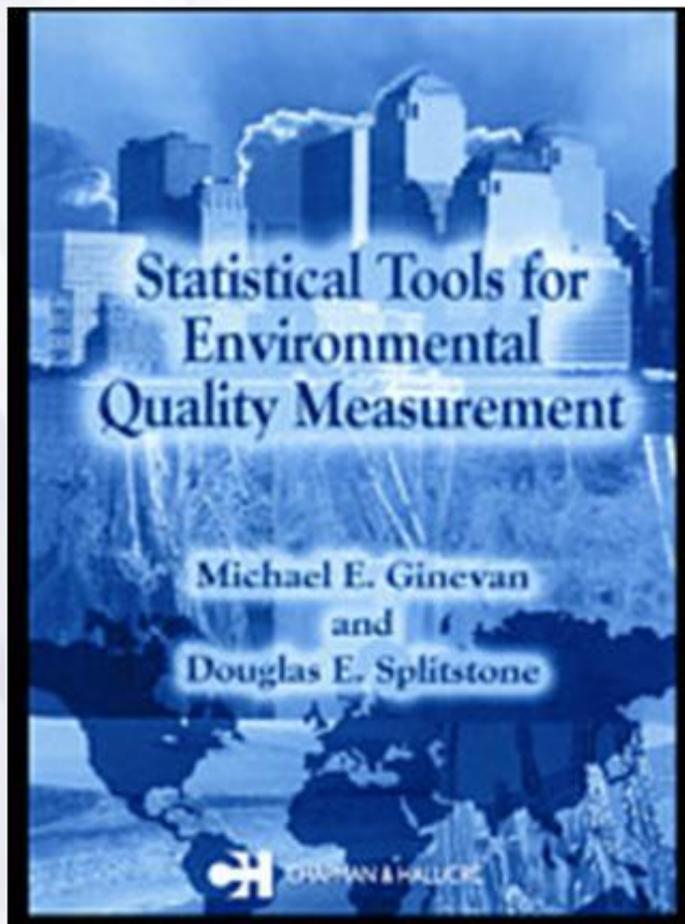
- INCREASE your odds of learning STATISTICAL process control (SPC) Identify and reduce variation in business processes using SPC--the powerful analysis tool for process evaluation and improvement. Statistical Process Control Demystified shows you how to use SPC to enable data-driven decision making and gain a competitive advantage in the marketplace. Written in a step-by-step format, this practical guide explains how to analyze process data, collect data, and determine the suitability of a process in meeting requirements. Attribute and X-bar control charts are discussed, as are charts for individuals data. You'll also get details on process improvement and measurement systems analysis. Detailed examples, calculations, and statistical assumptions make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key concepts. It's a no-brainer! You'll learn about: Control chart interpretation Overcoming common errors in the use of SPC and general statistical analysis tools Sampling requirements Analysis using Excel Estimating process variation Designed experiments Measurement systems analysis, including R&R studies Continuous process improvement strategies Simple enough for a beginner, but challenging enough for an advanced student, Statistical Process Control Demystified is your shortcut to this powerful analysis solution.



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Statistical Tools For Environmental Quality Measurement

Written By: Ginevan, Michael E.; Splitstone, Douglas E.

Published By: Taylor & Francis

Published In: 2003

DESCRIPCIÓN

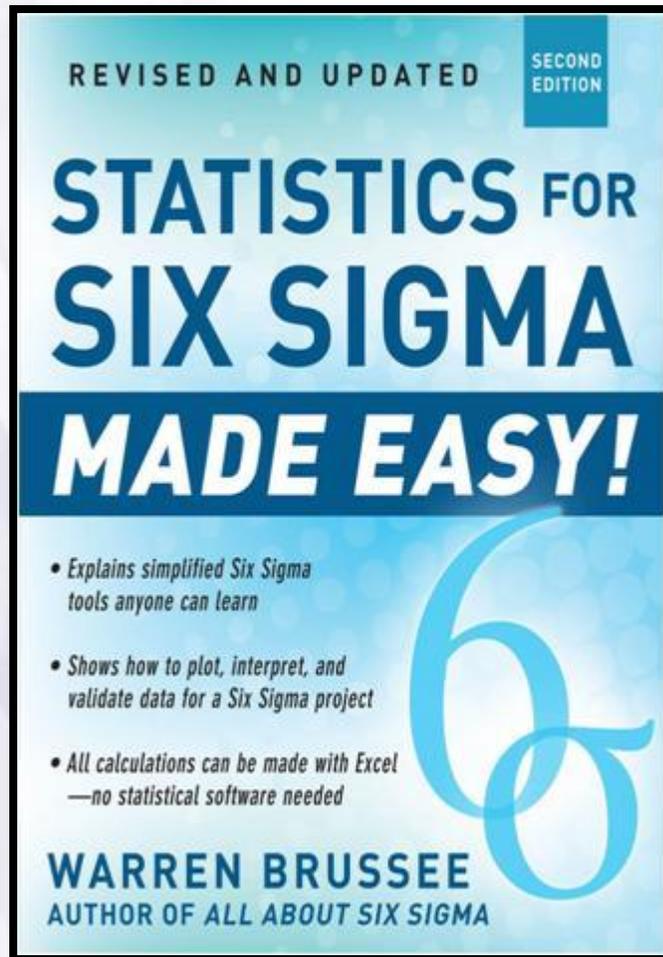
- When interpreting environmental data, scientists and engineers first must select the correct statistical tool to use for their analysis. By doing this they will be able to make sound decisions in their efforts to solve environmental problems. They need a detailed reference that points out the subtle differences between statistical procedures, making clear what procedure to use when trying to find the answer to a specific problem. Statistical Tools for Environmental Quality Measurement provides a detailed review of statistical tools used in analyzing and addressing environmental issues. This book examines commonly-used techniques found in USEPA guidelines and discusses their potential impact on decision-making. The authors are not constrained by statistical formalism; they advise when to go outside of standard statistical models when making difficult decisions. The content is presented in a practical style that prioritizes methods that work, based upon the authors' extensive experience. The text points out that simplicity facilitates effective communication of an analysis and decision to a "consumer" of statistics.; The book emphasizes the exact question that each procedure addresses, so that environmental scientists and engineers can clearly identify the question they want to ask, and correctly interpret the results.

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Statistics for Six Sigma Made Easy!

Written By: Brussee, Warren

Published By: McGraw-Hill

Published In: 2012

DESCRIPCIÓN

- A PLAIN ENGLISH GUIDE TO SOLVING REAL-WORLD PROBLEMS WITH SIX SIGMA Six Sigma is one of the most effective strategies for improving processes, creating better products, and boosting customer satisfaction, but business leaders often balk at its reputation for being too complex. Don't fall into that trap. Six Sigma is simple to understand and implement--if you have Statistics for Six Sigma Made Easy! Warren Brussee has helped businesses save millions of dollars with Six Sigma, and he explains how you can achieve similar results in this step-by-step guide. He presents a thorough overview of the Six Sigma methodology and techniques for successful implementation, as well as a clear explanation of DMAIC--the problem-solving method used by Six Sigma Greenbelts. Statistics for Six Sigma Made Easy! provides: A simplified form of the most common Six Sigma tools All the basic Six Sigma formulas and tables Dozens of Six Sigma statistical problem-solving case studies A matrix for finding the right statistical tool to meet your needs Basic Greenbelt training in one concise reference Best of all, no background in statistics is required--you can start improving quality and initiating cost saving improvements right away. Statistics for Six Sigma Made Easy! is the only reference you need to facilitate real-world application of Six Sigma tools.

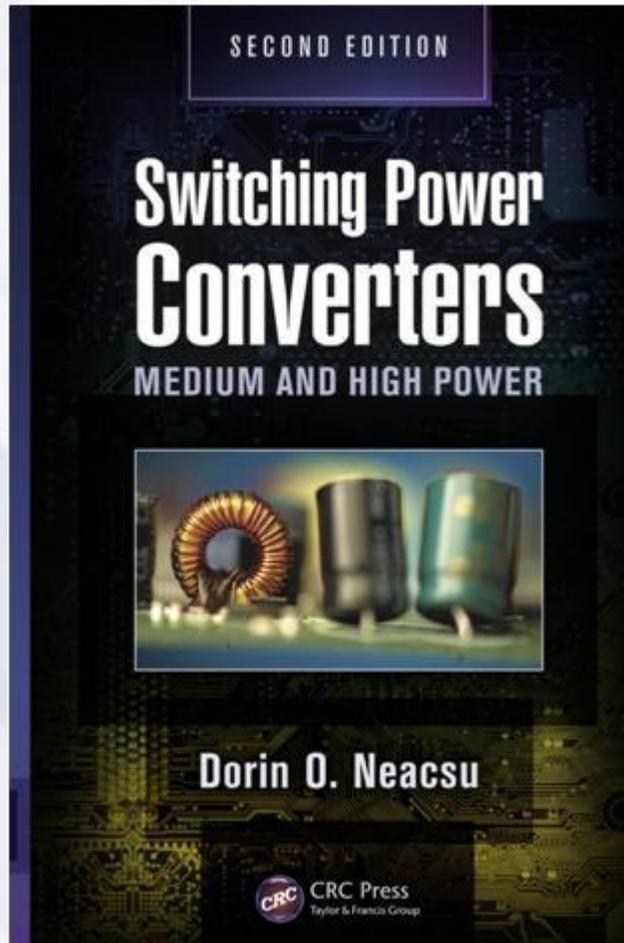


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Switching Power Converters: Medium and High Power

Written By: Neacsu, Dorin O.

Published By: CRC Press

Published In: 2013

DESCRIPCIÓN

- An examination of all of the multidisciplinary aspects of medium- and high-power converter systems, including basic power electronics, digital control and hardware, sensors, analog preprocessing of signals, protection devices and fault management, and pulse-width-modulation (PWM) algorithms, Switching Power Converters: Medium and High Power, Second Edition discusses the actual use of industrial technology and its related subassemblies and components, covering facets of implementation otherwise overlooked by theoretical textbooks.

The updated Second Edition contains many new figures, as well as new and/or improved chapters on:

- Thermal management and reliability
- Intelligent power modules
- AC/DC and DC/AC current source converters
- Multilevel converters
- Use of IPM within a "network of switches" concept
- Power semiconductors
- Matrix converters
- Practical aspects in building power converters

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Synthetic Biology

Written By: Schmidt, Markus

Published By: Wiley-Blackwell

Published In: 2012

DESCRIPCIÓN

- This is the only book to focus on industrial and environmental applications of synthetic biology, covering 17 of the most promising uses in the areas of biofuel, bioremediation and biomaterials. The contributions are written by experts from academia, non-profit organizations and industry, outlining not only the scientific basics but also the economic, environmental and ethical impact of the new technologies. This makes it not only suitable as supplementary material for students but also the perfect companion for policy makers and funding agencies, if they are to make informed decisions about synthetic biology. Largely coordinated by Markus Schmidt, a policy adviser, and the only European to testify in front of the bioethics commission of the Obama administration.

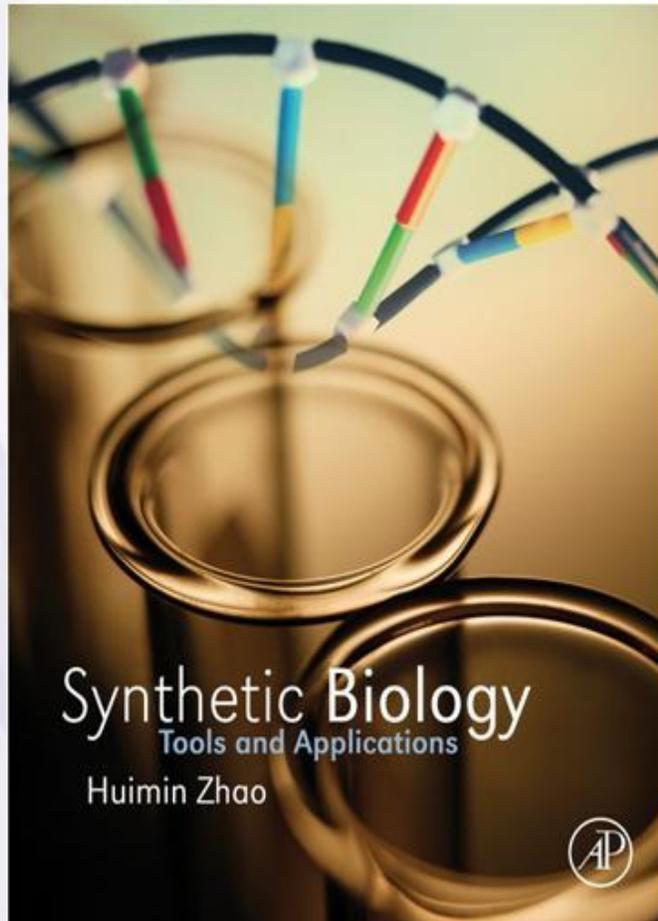


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Synthetic Biology

Written By: Zhao, Huimin

Published By: Academic Press

Published In: 2013

DESCRIPCIÓN

- Synthetic Biology provides a framework to examine key enabling components in the emerging area of synthetic biology. Chapters contributed by leaders in the field address tools and methodologies developed for engineering biological systems at many levels, including molecular, pathway, network, whole cell, and multi-cell levels. The book highlights exciting practical applications of synthetic biology such as microbial production of biofuels and drugs, artificial cells, synthetic viruses, and artificial photosynthesis. The roles of computers and computational design are discussed, as well as future prospects in the field, including cell-free synthetic biology and engineering synthetic ecosystems. Synthetic biology is the design and construction of new biological entities, such as enzymes, genetic circuits, and cells, or the redesign of existing biological systems. It builds on the advances in molecular, cell, and systems biology and seeks to transform biology in the same way that synthesis transformed chemistry and integrated circuit design transformed computing. The element that distinguishes synthetic biology from traditional molecular and cellular biology is the focus on the design and construction of core components that can be modeled, understood, and tuned to meet specific performance criteria and the assembly of these smaller parts and devices into larger integrated systems that solve specific biotechnology problems. Includes contributions from leaders in the field presents examples of ambitious synthetic biology efforts including creation of artificial cells from scratch, cell-free synthesis of chemicals, fuels, and proteins, engineering of artificial photosynthesis for biofuels production, and creation of unnatural living organisms Describes the latest state-of-the-art tools developed for low-cost synthesis of ever-increasing sizes of DNA and efficient modification of proteins, pathways, and genomes Highlights key technologies for analyzing biological systems at the genomic, proteomic, and metabolomics levels which are especially valuable in pathway, whole cell, and multi-cell applications Details mathematical modeling tools and computational tools which can dramatically increase the speed of the design process as well as reduce the cost of development.

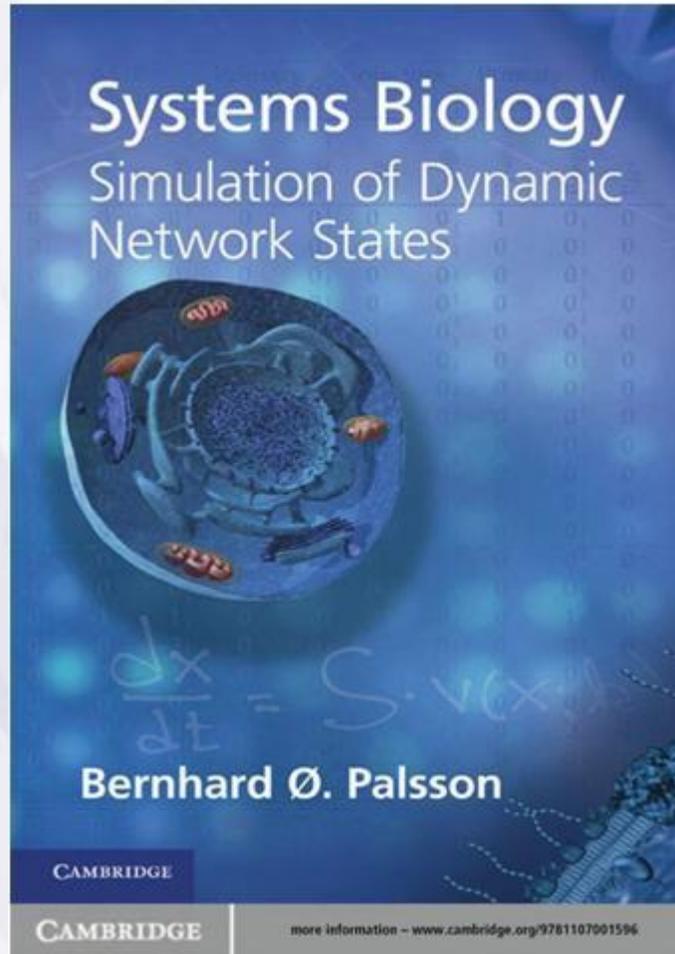


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Systems Biology: Simulation of Dynamic Network States

Written By: Palsson, Bernhard Ø.

Published By: Cambridge University Press

Published In: 2011

DESCRIPCIÓN

- Biophysical models have been used in biology for decades, but they have been limited in scope and size. In this book, Bernhard Ø. Palsson shows how network reconstructions that are based on genomic and bibliomic data, and take the form of established stoichiometric matrices, can be converted into dynamic models using metabolomic and fluxomic data. The Mass Action Stoichiometric Simulation (MASS) procedure can be used for any cellular process for which data is available and allows a scalable step-by-step approach to the practical construction of network models. Specifically, it can treat integrated processes that need explicit accounting of small molecules and protein, which allows simulation at the molecular level. The material has been class-tested by the author at both the undergraduate and graduate level. All computations in the text are available online in MATLAB and MATHEMATICA® workbooks, allowing hands-on practice with the material.

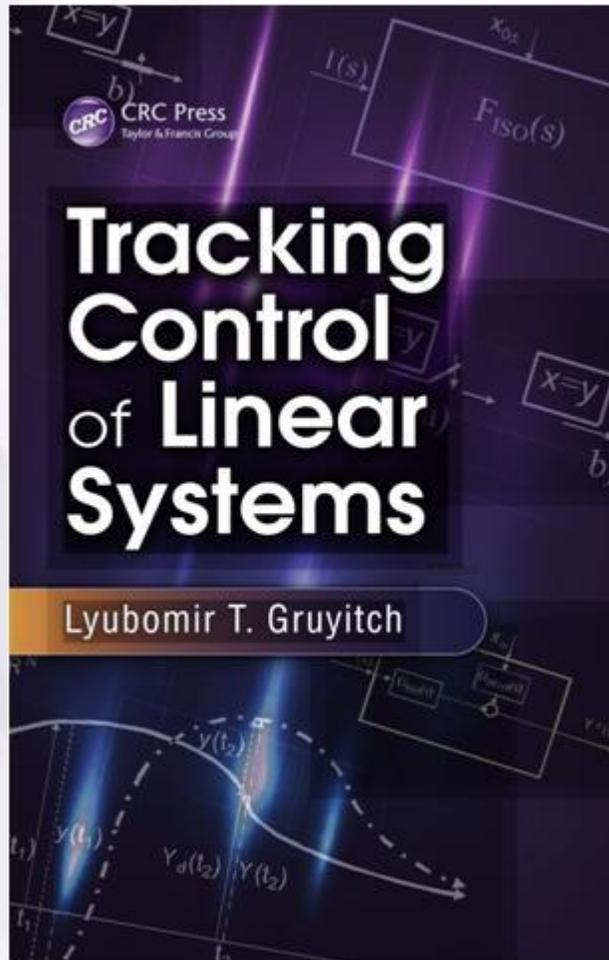


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Tracking Control of Linear Systems

Written By: Gruyitch, Lyubomir T.

Published By: CRC Press

Published In: 2013

DESCRIPCIÓN

- The primary purpose of control is to force desired behavior in an unpredictable environment, under the actions of unknown, possibly unmeasurable disturbances and unpredictable, and therefore probably nonzero, initial conditions. This means that tracking and tracking control synthesis are fundamental control issues. Surprisingly, however, tracking theory has not been well developed, and stability theory has dominated. Tracking Control of Linear Systems presents the fundamentals of tracking theory for control systems. The book introduces the full transfer function matrix $F(s)$, which substantially changes the theory of linear dynamical and control systems and enables a novel synthesis of tracking control that works more effectively in real environments.



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Transformer and Inductor Design Handbook

Written By: McLyman, Colonel Wm. T.

Published By: Taylor & Francis

Published In: 2004

DESCRIPCIÓN

- This third edition is revised and expanded to present a practical approach with new discussions in transformer and inductor design. It provides complete information on magnetic materials and core characteristics using step-by-step design examples.

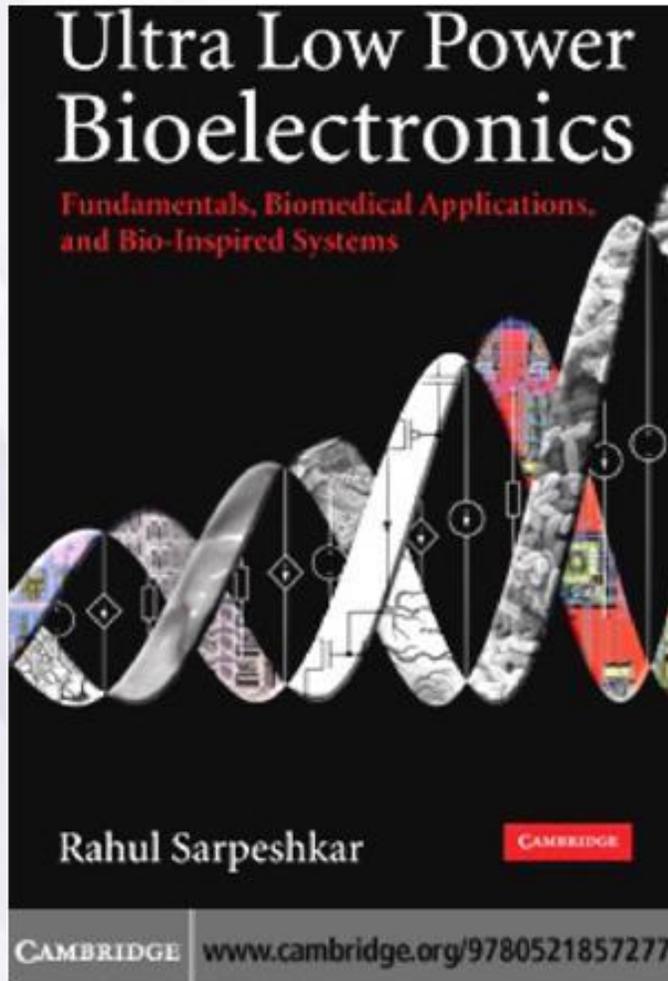


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Ultra Low Power Bioelectronics

Written By: Sarpeshkar, Rahul

Published By: Cambridge University Press

Published In: 2010

DESCRIPCIÓN

- This book provides, for the first time, a broad and deep treatment of the fields of both ultra low power electronics and bioelectronics. It discusses fundamental principles and circuits for ultra low power electronic design and their applications in biomedical systems. It also discusses how ultra energy efficient cellular and neural systems in biology can inspire revolutionary low power architectures in mixed-signal and RF electronics. The book presents a unique, unifying view of ultra low power analog and digital electronics and emphasizes the use of the ultra energy efficient sub threshold regime of transistor operation in both. Chapters on batteries, energy harvesting, and the future of energy provide an understanding of fundamental relationships between energy use and energy generation at small scales and at large scales. A wealth of insights and examples from brain implants, cochlear implants, bio-molecular sensing, cardiac devices, and bio-inspired systems make the book useful and engaging for students and practicing engineers.

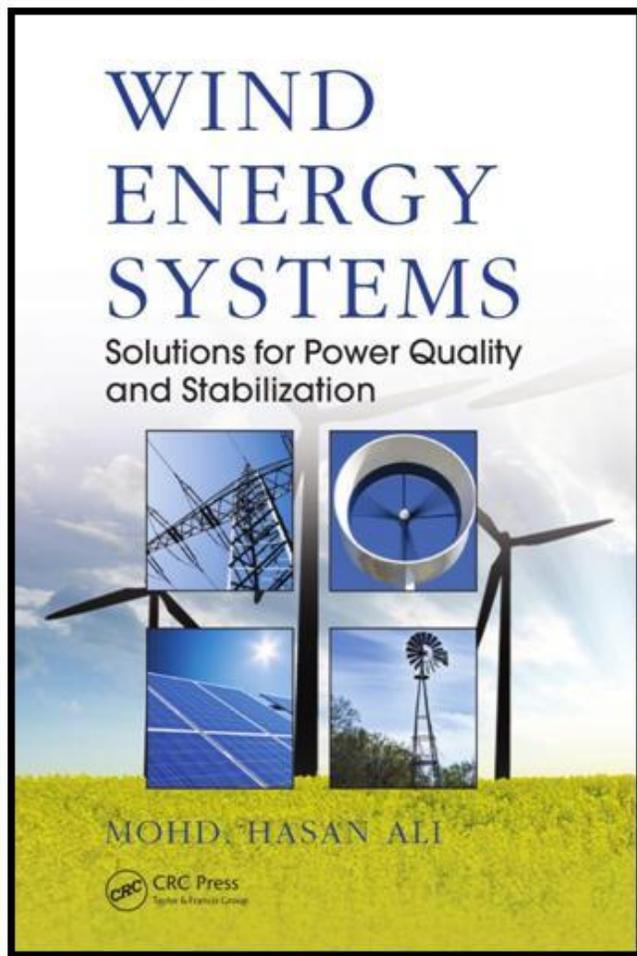


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Wind Energy Systems: Solutions for Power Quality and Stabilization

Written By: Ali, Mohd.

Published By: CRC Press

Published In: 2012

DESCRIPCIÓN

- Unlike conventional power plants, wind plants emit no air pollutants or greenhouse gases—and wind energy is a free, renewable resource. However, the induction machines commonly used as wind generators have stability problems similar to the transient stability of synchronous machines. To minimize power, frequency, and voltage fluctuations caused by network faults or random wind speed variations, control mechanisms are necessary. Wind Energy Systems: Solutions for Power Quality and Stabilization clearly explains how to solve stability and power quality issues of wind generator systems.
- Covering fundamental concepts of wind energy conversion systems, the book discusses several means to enhance the transient stability of wind generator systems. It also explains the methodologies for minimizing fluctuations of power, frequency, and voltage.
- Topics covered include:
- An overview of wind energy and wind energy conversion systems
- Fundamentals of electric machines and power electronics
- Types of wind generator systems
- Challenges in integrating wind power into electricity grids
- Solutions for power quality problems
- Methods for improving transient stability during network faults
- Methods for minimizing power fluctuations of variable-speed wind generator systems



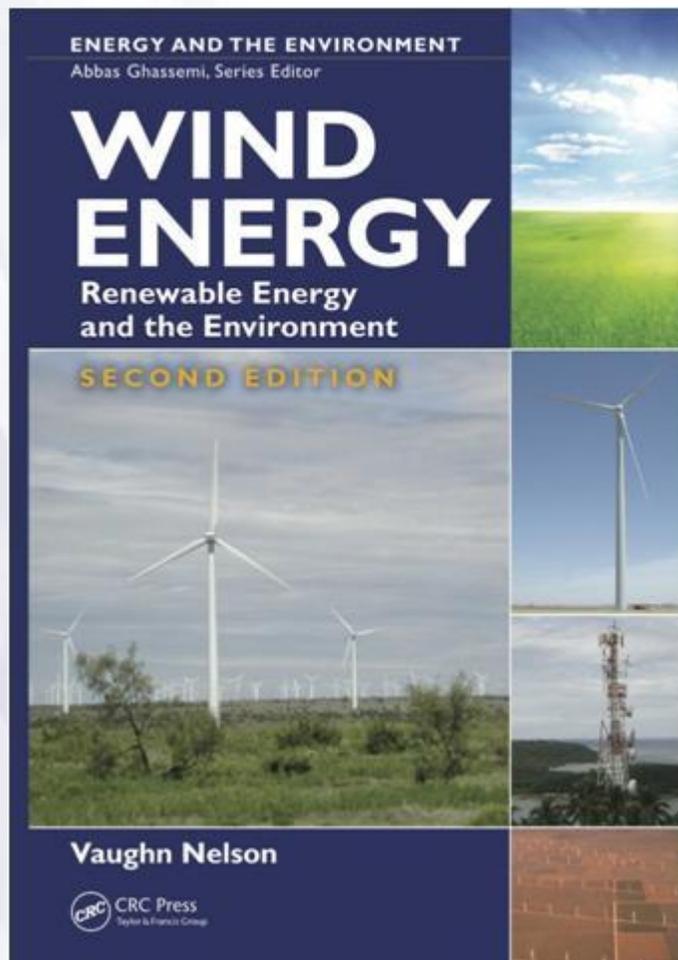
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Wind Energy: Renewable Energy and the Environment

Written By: Nelson, Vaughn

Published By: CRC Press

Published In: 2013

DESCRIPCIÓN

- As the demand for energy increases, and fossil fuels continue to decrease, Wind Energy: Renewable Energy and the Environment, Second Edition considers the viability of wind as an alternative renewable energy source. This book examines the wind industry from its start in the 1970s until now, and introduces all aspects of wind energy. The phenomenal growth of wind power for utilities is covered along with applications such as wind-diesel, village power, telecommunications, and street lighting. . It covers the characteristics of wind, such as shear, power potential, turbulence, wind resource, wind turbine types, and designs and performance. The text discusses the measurement and siting of individual wind turbines, and considers the development and economic impact of wind farms. What's New in the Second Edition: Expands the section on distributed wind Adds new sections on global warming, community wind, and storage Illustrates the need for a shift to renewable energy through discussions on energy use and the order of magnitude estimates for the lifetime of fossil fuels Discusses the interconnection of wind turbines to utility grids, regulations on installation and operation, and environmental concerns This book provides material on statistics, installation, types, and energy data, as well as new information, applications, and updates on the wind industry. It serves as a resource for practicing professionals in the wind energy industry, and can be used by undergraduate and graduate students in energy engineering/environmental engineering/wind technology.

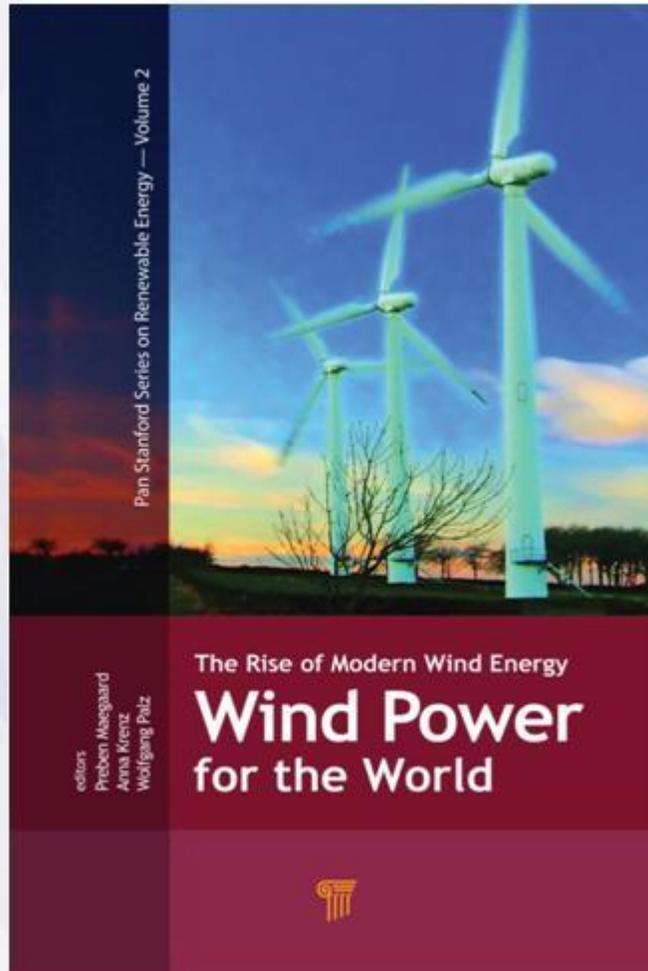


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Wind Power for the World: The Rise of Modern Wind Energy

Written By: Maegaard, Preben

Published By: Pan Stanford Publishing

Published In: 2013

DESCRIPCIÓN

- This book sheds light on how the modern 3-bladed wind turbine came into being, and who, how and what in the preceding period caused the success. It looks back over three decades to find the roots of this exciting development, a long cavalcade of developers, inventors, and manufacturers including the Danish authors who themselves were part of the breakthrough. Written for non-specialists, the book covers minimal science, emphasizing the story of how wind power became a worldwide 30-billion-euro business employing nearly one million people.



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