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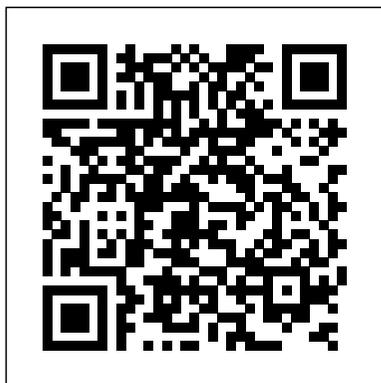
Analytical or Semi-analytical Solutions of Functionally Graded Material Structures John Wiley & Sons

Contributed articles.

An Efficient Solution Procedure for a MIP Incremental Implementation Model for Multimachine Systems Springer Science & Business Media Advanced Nanocatalysts for Biodiesel Production is a comprehensive and advanced book on practical and theoretical concepts of nanocatalysts dealing with future processing techniques towards environmental sustainability. The book critically discusses on latest emerging advanced nanocatalysts for biodiesel production aimed at reducing complexities and cost in the quest to meet future energy demands. Efforts have been made at clarifying the scope and limitations of biodiesel production in large-scale commercialization. The book discusses the size-dependent catalytic properties of nanomaterials and their working mechanisms in biodiesel production. Life cycle assessment of optimized viable feedstock from domestic as well as industrial waste is also addressed to improve the efficiency of biodiesel production. The book will be a valuable reference source for researchers and industrial professionals focusing on elementary depth analysis of nanocatalyst multifunctional technological applications in seeking key ideas for mimicking biodiesel production towards ecology and the economy. Key Features Provides a comprehensive environmental assessment of advanced nanocatalysts for biodiesel production to meet tha world's energy demands Discusses the green platform-based nanocatalysts like metal oxides/sulphides, 2D layered material synthesis and their relevance for biodiesel production. Presents a pathway for cheaper, cleaner and more environmentally friendly processing techniques for biodiesel production

Multiple Criteria Decision Making Springer Nature

This book introduces a modern approach to

embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

Grid and Distributed Computing John Wiley & Sons This book of the bestselling and widely acclaimed Python Machine Learning series is a comprehensive guide to machine and deep learning using PyTorch s simple to code framework. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Learn applied machine learning with a solid foundation in theory Clear, intuitive explanations take you deep into the theory and practice of Python machine learning Fully updated and expanded to cover PyTorch, transformers, XGBoost, graph neural networks, and best practices Book DescriptionMachine Learning with PyTorch and Scikit-Learn is a comprehensive guide to machine learning and deep learning with PyTorch. It acts as both a step-by-step tutorial and a reference you'll keep coming back to as you build your machine learning systems. Packed with clear explanations, visualizations, and examples, the book covers all the essential machine learning techniques in depth. While some books teach you only to follow instructions, with this machine learning book, we teach the principles allowing you to build models and applications for yourself. Why PyTorch? PyTorch is the Pythonic way to learn machine learning, making it easier to learn and simpler to code with. This book explains the essential parts of PyTorch and how to create models using popular libraries, such as PyTorch Lightning and PyTorch Geometric. You will also learn about generative adversarial networks (GANs) for generating new data and training intelligent agents with reinforcement learning. Finally, this new edition is expanded to cover the latest trends in deep learning, including graph neural networks and large-scale transformers used for natural language processing (NLP). This PyTorch book is your companion to machine learning with Python, whether you're a Python developer new to machine learning or want to deepen your knowledge of the latest developments.What you will learn Explore frameworks, models, and techniques for machines to learn from data Use scikit-learn for machine learning and PyTorch for deep learning Train machine learning classifiers on images, text, and more Build and train neural networks, transformers, and boosting algorithms Discover best practices for evaluating and tuning models Predict continuous target outcomes using regression analysis Dig deeper into textual and social media data using sentiment analysis Who this book is for If you have a good grasp of Python basics and want to start learning about machine

learning and deep learning, then this is the book for you. This is an essential resource written for developers and data scientists who want to create practical machine learning and deep learning applications using scikit-learn and PyTorch. Before you get started with this book, you'll need a good understanding of calculus, as well as linear algebra.

Magnetic Sensors for Biomedical Applications CRC Press
This edited book presents nanotechnology-based approaches to improve quality of biofuels production. It covers the use of different nanomaterials in various biofuels production methods and their sustainable utility analysis to improve production of biofuels at economical and mass scale. Environmentally friendly, low cost, and synthesis via green and renewable resources are the main key features covered by this book. Advantages and sustainability scope of green and renewable material to synthesize nanomaterial and reduction in synthesis cost over to chemical synthesis cost have been discussed in this book. The book also explores various green synthesis possibilities to synthesize nanomaterials that are frequently involved in biofuels production process as catalysts. Various feasible mechanisms have also been explained. Maximum and sustainable use of green nanomaterials at every step of biofuels production is also one of the major focuses of this book. It covers mega audiences, which include academician, researchers, and industries people. This book will be highly interesting for researchers and scientists as well as related industries.

Digital Design with RTL Design, VHDL, and Verilog Routledge
Internet of Things: Principles and Paradigms captures the state-of-the-art research in Internet of Things, its applications, architectures, and technologies. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. The Internet of Things (IoT) paradigm promises to make any electronic devices part of the Internet environment. This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources. To help realize the full potential of IoT, the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them. These challenges include the development of scalable architecture, moving from closed systems to open systems, designing interaction protocols, autonomic management, and the privacy and ethical issues around data sensing, storage, and processing. Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust, security, and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

Biotechnology for Biofuels: A Sustainable Green Energy Solution John Wiley & Sons
Microfluidics refers to devices and methods for controlling and manipulating fluid flows at length scales less than a

millimeter. Miniaturization of a laboratory to a small device, usually termed as lab-on-a-chip, is an advanced technology that integrates a microfluidic system including channels, mixers, reservoirs, pumps and valves on a micro scale chip and can manipulate very small sample volumes of fluids. While several flow control concepts for microfluidic devices have been developed to date, here flow control concepts based on thermally responsive polymer solutions are presented. In particular, flow control concepts base on the thermally triggered reversible phase change of aqueous solutions of the polymer Pluronic will be discussed. Selective heating of small regions of microfluidic channels, which leads to localized gel formation in these channels and reversible channel blockage, will be used to control a membrane valve that controls flow in a separate channel. This new technology will allow generating inexpensive portable bioanalysis tools where microvalve actuation occurs simply through heaters at a constant pressure source without a need for large external pressure control systems as is currently the case. Furthermore, a concept for controlled cross-channel transport of particles and potentially cells is presented that relies on the continuous regeneration of a gel wall at the diffusive interface of two co-streaming fluids in a microfluidic channel.

The Adventurous and Practical Journey to a Large-Scale Enterprise Solution CRC Press
This book constitutes the proceedings of the 6th International Conference on Nonlinear Speech Processing, NOLISP 2013, held in Mons, Belgium, in June 2013. The 27 refereed papers included in this volume were carefully reviewed and selected from 34 submissions. The paper are organized in topical sections on speech and audio analysis; speech synthesis; speech-based biomedical applications; automatic speech recognition; and speech enhancement.

Python Machine Learning IGI Global
Quantitative Data Analysis for Language Assessment Volume II: Advanced Methods demonstrates advanced quantitative techniques for language assessment. The volume takes an interdisciplinary approach and taps into expertise from language assessment, data mining, and psychometrics. The techniques covered include Structural Equation Modeling, Data Mining, Multidimensional Psychometrics and Multilevel Data Analysis.Volume II is distinct among available books in language assessment, as it engages the readers in both theory and application of the methods and introduces relevant techniques for theory construction and validation. This book is highly recommended to graduate students and researchers who are searching for innovative and rigorous approaches and methods to achieve excellence in their dissertations and research. It is also a valuable source for academics who teach quantitative approaches in language assessment and data analysis courses.

Green Nano Solution for Bioenergy Production Enhancement Pearson Education India
There can be little doubt that recent technological innovations and digitalization - specifically the rise of home computers and the internet - have had a significant impact on our empowerment as consumers and the way we interact with traditional commerce. Despite the widespread benefits that we have reaped from these technological advancements, there has also been a negative impact on some business sectors from this consumer empowerment, particularly in the case of intermediaries, brokers and middlemen.In this paper I will discuss the influence of digitalization on investor behavior and

the problems which digitalization has made for middlemen businesses within the trading and investment industry. I will also highlight ways that investment middlemen have found to stay competitive and survive in the digital age and look at the advantages that still prevail in their traditional business models in spite of the prevailing trend towards internet-based trading and online 'self-service' investing.

Embedded System Design Morgan Kaufmann
Big Data: Principles and Paradigms captures the state-of-the-art research on the architectural aspects, technologies, and applications of Big Data. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. To help realize Big Data's full potential, the book addresses numerous challenges, offering the conceptual and technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable machine learning, data analysis algorithms, sampling techniques, and privacy and ethical issues. Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry

Theories and Simulations of Complex Social Systems World Scientific
As future generation information technology (FGIT) becomes specialized and fr- mented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that c- bine ideas taken from multiple disciplines in order to achieve something more signi- cant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout mul- faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), D- aster Recovery and Business Continuity (DRBC; published independently), Future G- eration Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), M- timedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and- and e-Service, Science and Technology (UNESST).

Energy Storage in Energy Markets Academic Press
The high failure rate of enterprise resource planning (ERP) projects is a pressing concern for both academic researchers and industrial practitioners. The challenges of an ERP implementation are particularly high when the project involves designing and developing a system from scratch. Organizations often turn to vendors and consultants for handling such projects

but, every aspect of an ERP project is opaque for both customers and vendors. Unlocking the mysteries of building a large-scale ERP system, The Adventurous and Practical Journey to a Large-Scale Enterprise Solution tells the story of implementing an applied enterprise solution. The book covers the field of enterprise resource planning by examining state-of-the-art concepts in software project management methodology, design and development integration policy, and deployment framework, including: A hybrid project management methodology using waterfall as well as a customized Scrum-based approach A novel multi-tiered software architecture featuring an enhanced flowable process engine A unique platform for coding business processes efficiently Integration to embed ERP modules in physical devices A heuristic-based framework to successfully step into the Go-live period Written to help ERP project professionals, the book charts the path that they should travel from project ideation to systems implementation. It presents a detailed, real-life case study of implementing a large-scale ERP and uses storytelling to demonstrate incorrect and correct decisions frequently made by vendors and customers. Filled with practical lessons learned, the book explains the ins and outs of adopting project methodologies. It weaves a tale that features both real-world and scholarly aspects of an ERP implementation.

Defying the Limits Jossey-Bass
The depletion of petroleum-derived fuel and environmental concerns have prompted many millennials to consider biofuels as alternative fuel sources. But completely replacing petroleum-derived fuels with biofuels is currently impossible in terms of production capacity and engine compatibility. Nevertheless, the marginal replacement of diesel with biofuel could delay the depletion of petroleum resources and abate the radical climate change caused by automotive pollutants. Energy security and climate change are the two major driving forces for worldwide biofuel development, and also have the potential to stimulate the agro-industry. The development of biofuels as alternative and renewable sources of energy has become critical in national efforts towards maximum self-reliance, the cornerstone of our energy security strategy. At the same time, the production of biofuels from various types of biomass such as plants, microbes, algae and fungi is now an ecologically viable and sustainable option. This book describes the biotechnological advances in biofuel production from various sources, while also providing essential information on the genetic improvement of biofuel sources at both the conventional and genomic level. These innovations and the corresponding methodologies are explained in detail.

Big Data Packt Publishing Ltd
This book provides a comprehensive introduction to the analysis of functionally graded materials and structures. Functionally graded materials (FGMs), in which the volume fractions of two or more constituent materials are designed to vary continuously as a function of position along certain direction(s), have been developed and studied over the past three decades. The major advantage of FGMs is that no distinct internal boundaries exist, and failures from interfacial stress concentrations developed in conventional components can be avoided. The gradual change

of material properties can be tailored to different applications and working environments. As these materials' range of application expands, new methodologies have to be developed to characterize them, and to design and analyze structural components made of them. Despite a number of existing papers on the analysis of functionally graded materials and structures, there is no single book that is devoted entirely to the analysis of functionally graded beams, plates and shells using different methods, e.g.,analytical or semi-analytical methods. Filling this gap in the literature, the book offers a valuable reference resource for senior undergraduates, graduate students, researchers, and engineers in this field. The results presented here can be used as a benchmark for checking the validity and accuracy of other numerical solutions. They can also be used directly in the design of functionally graded materials and structures.

Advances in Ultrasound Technology for Environmental Remediation Wiley

Research into social systems is challenging due to their complex nature. Traditional methods of analysis are often difficult to apply effectively as theories evolve over time. This can be due to a lack of appropriate data, or too much uncertainty. It can also be the result of problems which are not yet understood well enough in the general sense so that they can be classified, and an appropriate solution quickly identified. Simulation is one tool that deals well with these challenges, fits in well with the deductive process, and is useful for testing theory. This field is still relatively new, and much of the work is necessarily innovative, although it builds upon a rich and varied foundation. There are a number of existing modelling paradigms being applied to complex social systems research. Additionally, new methods and measures are being devised through the process of conducting research. We expect that readers will enjoy the collection of high quality research works from new and accomplished researchers.

Simultaneous Potential and Circuit Solution for Two-dimensional Bounded Plasma Simulation Codes Elsevier

This edition of Foundations of Software Testing is aimed at the undergraduate, the graduate students and the practicing engineers. It presents sound engineering approaches for test generation, ion, minimization, assessment, and enhancement. Using numerous examples, it offers a lucid description of a wide range of simple to complex techniques for a variety of testing-related tasks. It also discusses the comparative analyses of commercially available testing tools to facilitate the tool ion.

Game Theory Solutions for the Internet of Things: Emerging Research and Opportunities Springer Science & Business Media

While most popular digital design books present a perspective rooted in the 1970s and 1980s, Digital System Design takes the subject into the 21st century. It quickly moves through the low-levels of design, making a clear distinction between design and gate-level minimization. The book also emphasizes how one of the key uses of digital design today is to build high-performance alternatives to software in addition to glue logic. And it swiftly progresses to register-transfer-level (RTL) design since that is the level at which most digital design in practice today is performed.

Electric Vehicle Integration via Smart Charging John Wiley

& Sons

Undoubtedly, drinking water of an acceptable quality has become a scarce commodity. Water shortage is becoming a major concern all around the world due to limited freshwater resources as well as the high cost of freshwater transportation from freshwater-rich areas to arid areas. As a result, solutions such as water recycling and desalination of saline or brackish water are being introduced and emerging worldwide as alternative ways of supplying water. Desalination of seawater is known to be one of mankind's earliest forms of water treatment, and it has become one of the most sustainable alternative solutions to provide freshwater for many communities and industrial sectors. This book aims to cover the challenges and opportunities in desalination processes.

A Multi-objective Multi-period Model for Flexible Automation Investments Packt Publishing Ltd

This book tells my circuitous and tragicomic journey through Big Tech, as a startup founder and as an employee. While I appreciate the vast creative potential of new technologies, I critique aspects of the industry that I observed that lose sight of human values in the quest for profits and market share. I hope to empower the public with the information to enable all of us to urge technology firms to use the great financial and cultural power they wield for positive ends.

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