



Buku Baharu / New Books

Julai 2025

Perpustakaan Lingkungan Kedua



Title : Food waste management : solving the wicked problem
Editor : Elina Narvanen, Nina Mesiranta, Malla Mattila, Anna Heikkinen
ISBN : 9783030205638
Publisher : Palgrave macmillan
Year : 2020
Call Number : TD804 .F668 3

Abstract

This book focuses on the crucial sustainability challenge of reducing food waste at the level of consumer-society. Providing an in-depth, research-based overview of the multifaceted problem, it considers environmental, economic, social and ethical factors. Perspectives included in the book address households, consumers, and organizations, and their role in reducing food waste. Rather than focusing upon the reasons for food waste itself, the chapters develop research-based solutions for the problem, providing a much-needed solution-orientated approach that takes multiple perspectives into account.



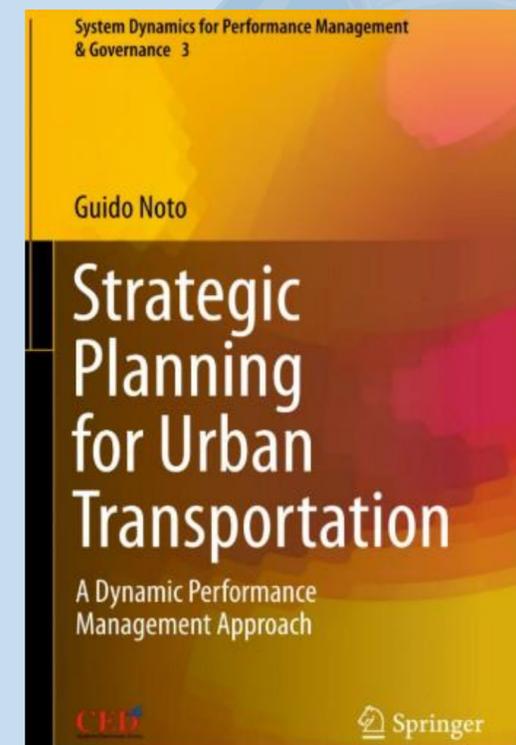
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More info :
<https://shorturl.at/6FQXD>

Title : Strategic planning for urban transportation : a dynamic performance management approach
Author : Guido Noto
ISBN : 9783030368852
Publisher : Springer
Year : 2020
Call Number : HE305 .N668 3

Abstract

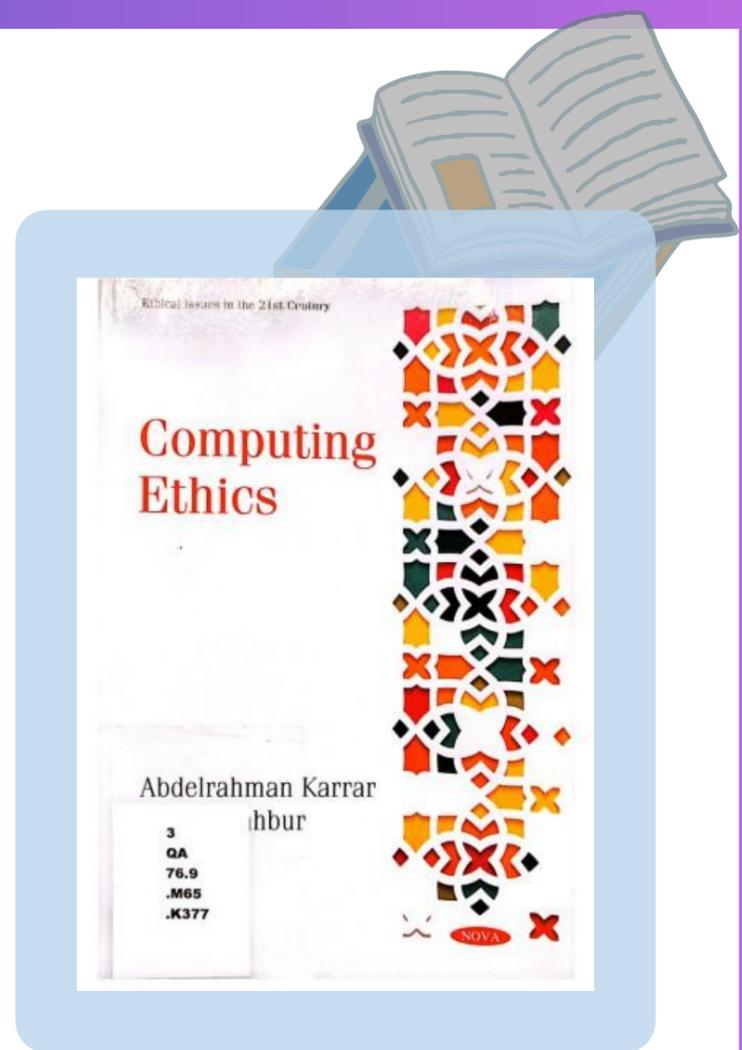
This book focuses on the adoption of a Dynamic Performance Management (DPM) approach to support the planning and management of urban transportation systems. DPM allows one to embrace a dynamic and systemic perspective and, as a result, to frame the contribution of different stakeholders, in terms of outcome-based performance, at an inter-institutional level. The discussed DPM approach allows one to focus on the causal relationships and feedback processes that characterize urban transportation systems' governance. Particularly, through the adoption of such an approach, it is possible to identify outcome-based performance measures that help to monitor and drive the governance network toward the creation of public value for the reference communities.



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More info :
<https://shorturl.at/PDJLc>

Title : Computing ethics
 Author : Abdelrahman Karrar, Kamal Dahbur
 ISBN : 9781536193787
 Publisher : Nova Science Publishers
 Year : 2021
 Call Number : QA76.9 .M65K377 3



Abstract

Ethics is an important basis for controlling and regulating human behavior in all areas of life, including but not limited to dealing with other people at work. This book covers ethical issues related to the field of information technology and computing, and discusses some of the ethical issues from the perspective of the Arabic and Islamic cultures. The book concentrates on understanding the legal, ethical, and societal issues related to the field of information technology and computing without indulging into the implications of these issues on other fields, such as music or painting copyrights. The book is well suited for undergraduate and graduate students in colleges and universities in the Middle East and Islamic world.



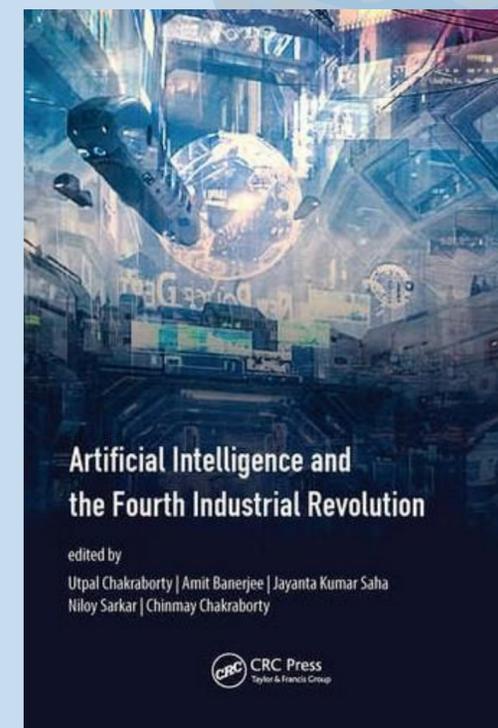
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More info :
<https://shorturl.at/EDPCM>

Title : Artificial intelligence and the fourth industrial revolution
 Editor : Utpal Chakraborty, Amit Banerjee, Jayanta Kumar Saha,
 Niloy Sarkar, Chinmay Chakraborty
 ISBN : 9789814800792
 Publisher : Jenny Stanford Publishing
 Year : 2022
 Call Number : TA347 .A78A738 3

Abstract

This book presents the overall technology spectrum in artificial intelligence (AI) and the Fourth Industrial Revolution, which is set to revolutionize the world. It discusses their various aspects and related case studies from industry, academics, administration, law, finance, and accounting as well as educational technology. The contributors, who are experts in their respective fields and from industry and academia, focus on a gesture-recognition prototype for specially abled people; jurisprudential approach to AI and legal reasoning; automated chatbot for autism spectrum disorder using AI assistance; Big Data analytics and Internet of Things (IoT); role of AI in advancement of drug discovery; development, opportunities, and challenges of the Fourth Industrial Revolution; legal, ethical, and policy implications of AI; Internet of Health Things for smart healthcare and digital wellbeing; machine learning and computer vision; computer vision-based system for automation and industrial applications; AI-IoT in home-based healthcare; and AI in super-precision human brain and spine surgery.



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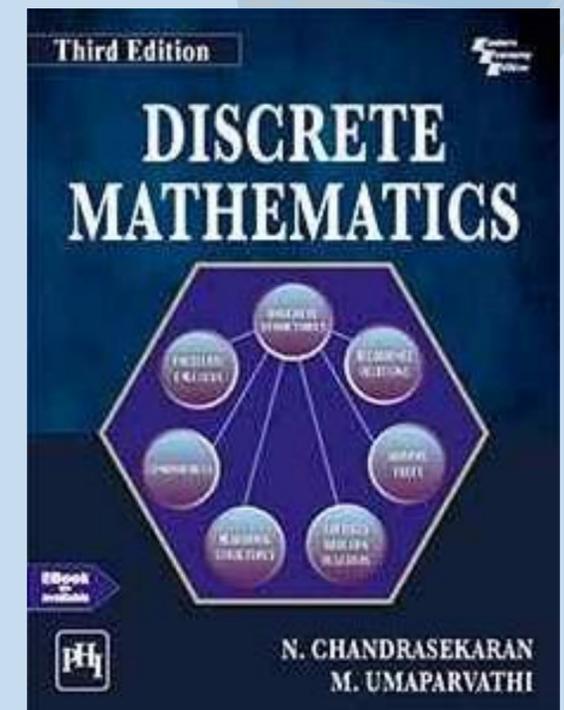
More info :

<https://shorturl.at/Dr3GS>

Title : Discrete mathematics
 Author : N. Chandrasekaran, M. Umaparvathi
 ISBN : 9789391818449
 Publisher : Prentice Hall India
 Year : 2024
 Call Number : QA297.4 .C483 2024 3

Abstract

The book is replete with features which enable the building of a firm foundation of the underlying principles of the subject and also provides adequate scope for testing the comprehension acquired by the students. Each chapter contains numerous worked-out examples within the main discussion as well as several chapter-end Supplementary Examples for revision. The Self-Test and Exercises at the end of each chapter include a large number of objective type questions and problems respectively. Answers to objective type questions and hints to exercises are also provided. All these pedagogic features, together with thorough coverage of the subject matter, make this book a readable text for beginners as well as advanced learners of the subject.



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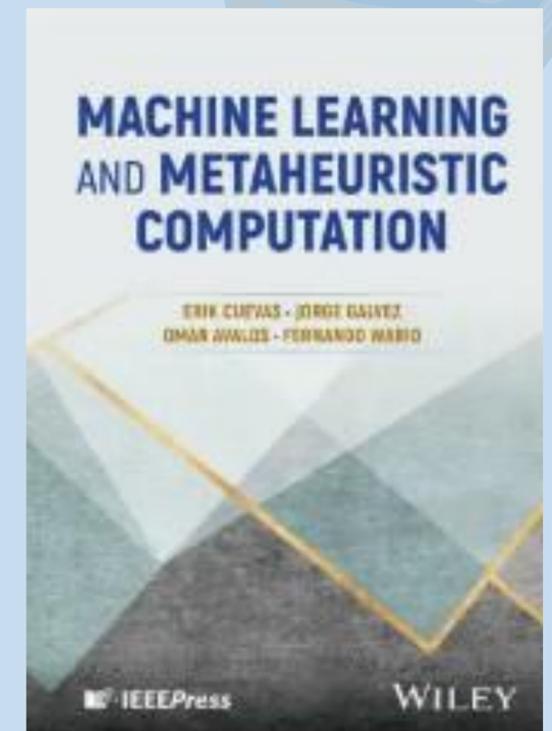
<https://shorturl.at/fO3uM>

Title : Machine learning and metaheuristic computation
Author : Erik Cuevas, Jorge Galvez, Omar Avalos, Fernando Wario
ISBN : 9781394229642
Publisher : Wiley-IEEE Press
Year : 2025
Call Number : Q325.5 .C843 3

Abstract

Learn to bridge the gap between machine learning and metaheuristic methods to solve problems in optimization approaches

Few areas of technology have greater potential to revolutionize the globe than artificial intelligence. Two key areas of artificial intelligence, machine learning and metaheuristic computation, have an enormous range of individual and combined applications in computer science and technology. To date, these two complementary paradigms have not always been treated together, despite the potential of a combined approach which maximizes the utility and minimizes the drawbacks of both.



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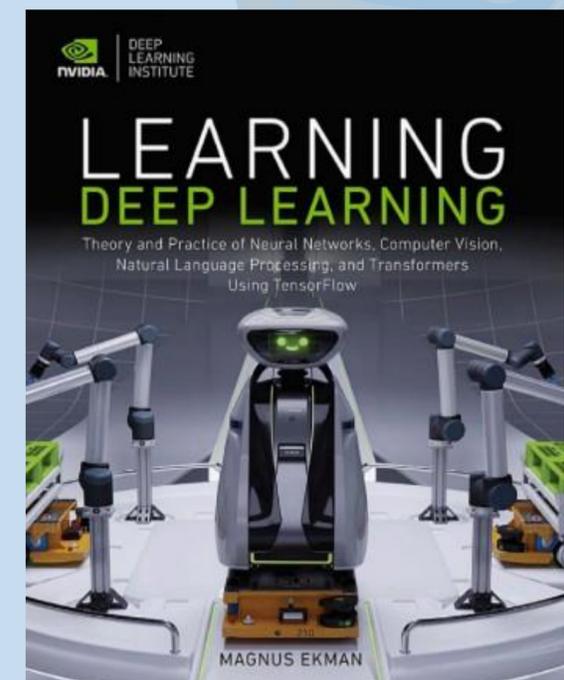
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<https://tinyurl.com/4mnxrrdd>

Title : Learning deep learning : theory and practice of neural networks, computer vision, natural language processing, and transformers using tensorflow
Author : Magnus Ekman
ISBN : 9780137470358
Publisher : Addison-Wesley Professional
Year : 2022
Call Number : Q325.73 .E3966 3

Abstract

Deep learning (DL) is a key component of today's exciting advances in machine learning and artificial intelligence. Learning Deep Learning is a complete guide to DL. Illuminating both the core concepts and the hands-on programming techniques needed to succeed, this book is ideal for developers, data scientists, analysts, and others—including those with no prior machine learning or statistics experience.

After introducing the essential building blocks of deep neural networks, such as artificial neurons and fully connected, convolutional, and recurrent layers, Magnus Ekman shows how to use them to build advanced architectures, including the Transformer. He describes how these concepts are used to build modern networks for computer vision and natural language processing (NLP), including Mask R-CNN, GPT, and BERT. And he explains how a natural language translator and a system generating natural language descriptions of images.



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<https://tinyurl.com/ycyv7b7n>

Title : How to build android apps with kotlin : a practical guide to developing, testing, and publishing your first Android apps
Author : Alex Forrester , Eran Boudjnah, Alexandru Dumbravan, Jomar Tigcal
ISBN : 9781837634934
Publisher : Packt Publishing
Year : 2023
Call Number : QA76.73 .K68F677 2023 3

Abstract

This book starts with the fundamentals of app development, enabling you to utilize Android Studio and Kotlin to get started with building Android projects. You'll learn how to create apps and run them on virtual devices through guided exercises. Progressing through the chapters, you'll delve into Android's RecyclerView to make the most of lists, images, and maps, and see how to fetch data from a web service.

You'll also get to grips with testing, learning how to keep your architecture clean, understanding how to persist data, and gaining basic knowledge of the dependency injection pattern. Finally, you'll see how to publish your apps on the Google Play store.



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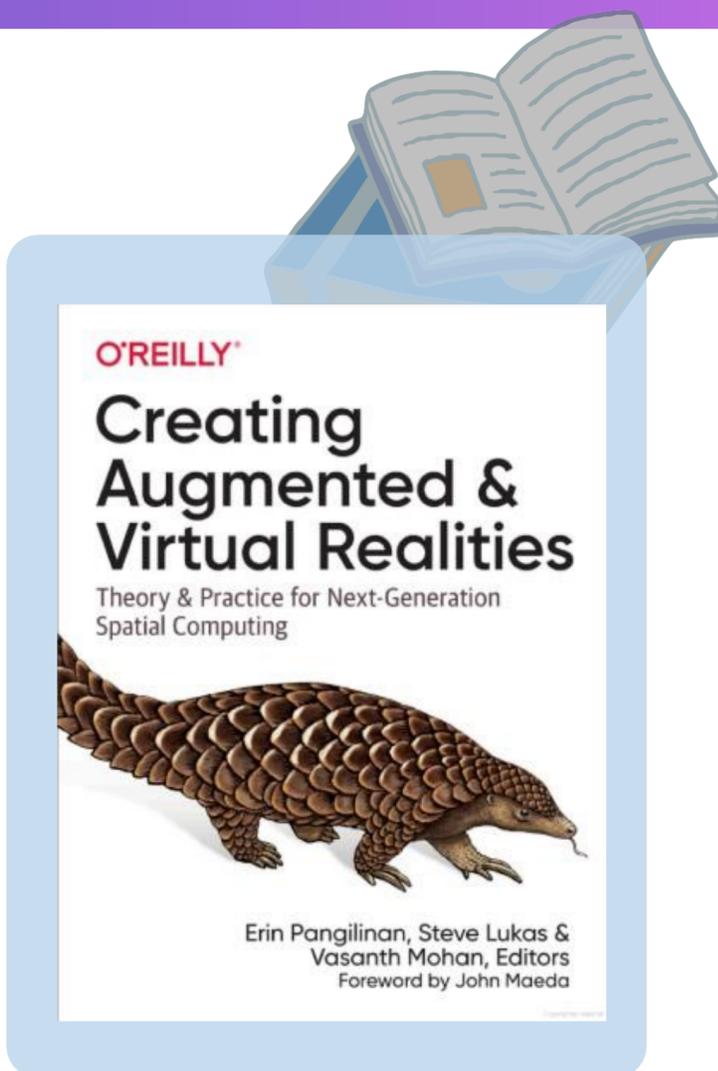
More info :
<https://tinyurl.com/2s4zdxvr>

Title : Creating augmented and virtual realities : theory and practice for next-generation spatial computing
Author : Erin Pangilinan, Steve Lukas, Vasanth Mohan
ISBN : 9781492044192
Publisher : O'Reilly Media, Inc
Year : 2019
Call Number : QA76.9 .A94C743 3

Abstract

Despite popular forays into augmented and virtual reality in recent years, spatial computing still sits on the cusp of mainstream use. Developers, artists, and designers looking to enter this field today have few places to turn for expert guidance. In this book, Erin Pangilinan, Steve Lukas, and Vasanth Mohan examine the AR and VR development pipeline and provide hands-on practice to help you hone your skills.

Through step-by-step tutorials, you'll learn how to build practical applications and experiences grounded in theory and backed by industry use cases. In each section of the book, industry specialists, including Timoni West, Victor Prisacariu, and Nicolas Meuleau, join the authors to explain the technology behind spatial computing.



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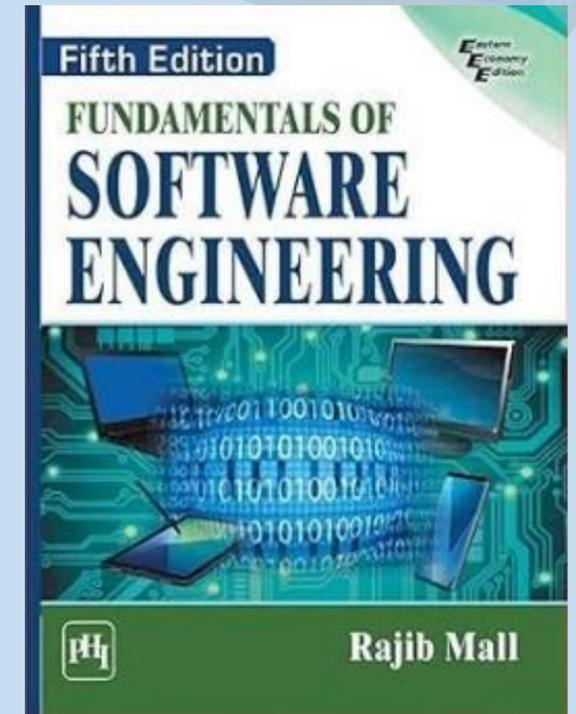
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<https://tinyurl.com/susc99ys>



Title : Fundamentals of software engineering (fifth edition)
 Author : Rajib Mall
 ISBN : 9789388028028
 Publisher : PHI Learning Private Limited
 Year : 2025
 Call Number : QA76.758 .M289 2025 3

Abstract

The book, now in its Fifth Edition, has been restructured and revised completely to study the latest trends and developments in the field. It illustrates various emerging frameworks of software testing and designs in traditional, structured and unstructured environments. Several worked-out examples and practice problems have been included in each chapter. NEW TO THIS EDITION In almost every chapter, several sections have been completely rewritten to increase readability. Several new topics on latest development have been included in almost every chapter, such as agile development using SCRUM, MC/DC testing, quality models, etc. A large number of additional multiple choice questions and review questions have been added in all the chapters to help students understand the concepts readily.



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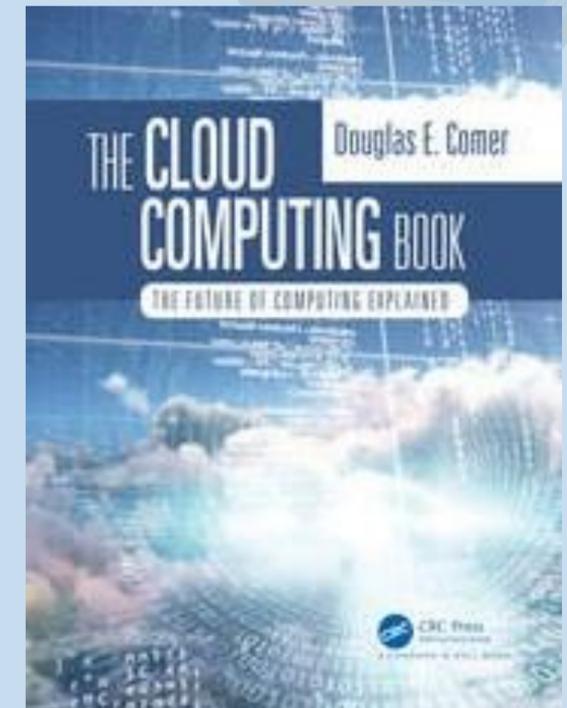




Title : The cloud computing book : the future of computing explained
Author : Douglas E. Comer
ISBN : 9780367706845
Publisher : CRC Press
Year : 2021
Call Number : QA76.585 .C663 3

Abstract

The book explains real and virtual data center facilities, including computation (e.g., servers, hypervisors, Virtual Machines, and containers), networks (e.g., leaf-spine architecture, VLANs, and VxLAN), and storage mechanisms (e.g., SAN, NAS, and object storage). Chapters on automation and orchestration cover the conceptual organization of systems that automate software deployment and scaling. Chapters on cloud-native software cover parallelism, microservices, MapReduce, controller-based designs, and serverless computing. Although it focuses on concepts and principles, the book uses popular technologies in examples, including Docker containers and Kubernetes. Final chapters explain security in a cloud environment and the use of models to help control the complexity involved in designing software for the cloud.



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Title : Modern computer architecture
 Author : Stephanie Collins
 ISBN : 9781639873678
 Publisher : Murphy & Moore Publishing
 Year : 2022
 Call Number : QA76.9 .A73C635 3

Abstract

The set of rules and methods which govern the organization, functionality and implementation of computer systems is termed as computer architecture. It focuses on the ways in which various hardware components are connected together to form a computer system. Computer architecture deals with the high level design issues and acts as an interface between the hardware and the software. The various sub-fields of this discipline are microarchitecture, instruction set architecture and systems design. The instruction set architecture is responsible for defining items in a computer which are accessed by a program such as registers, data types and addressing modes. The major design goals of computer architecture are to achieve maximum performance and power efficiency. This book presents the complex subject of computer architecture in the most comprehensible and easy to understand language. The various sub-fields of computer architecture along with technological progress that have future implications are glanced at herein. This book will serve as a valuable source of reference for those interested in this field.



Modern Computer Architecture



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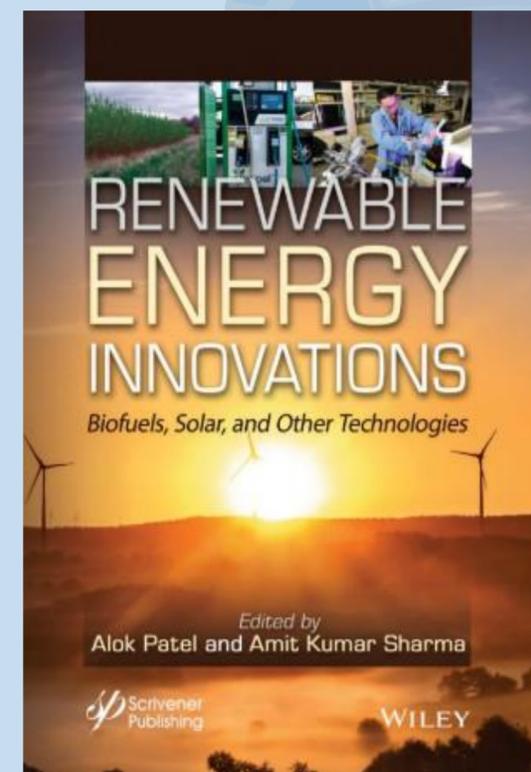
<https://tinyurl.com/y953jasv>

Title : Renewable energy innovations : biofuels, solar and other technologies
 Editor : Alok Patel and Amit Kumar Sharma
 ISBN : 9781119785675
 Publisher : John Wiley & Son
 Year : 2023
 Call Number : TJ808 .R445 3

Abstract

This book discusses bioprocessing to produce biofuels, biobased chemicals, bioproducts, and biomass biorefinery processes. This involves designing novel pretreatment and fractionation technologies for lignocellulose biomass into cellulose, hemicellulose, and lignin and the conversion of these streams into biofuels and biobased chemicals via biochemical and thermochemical routes. This book also covers the advancement of oleaginous microorganisms for biofuels and nutraceutical, biological wastewater treatment.

Written and edited by authors from leading biotechnology research groups from across the world, this exciting new volume covers all of these technologies, including the basic concepts and the problems and solutions involved with the practical applications in the real world. Whether for the veteran engineer or scientist, student, manager, or another technician working in the field, this volume is essential for any library.



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Title : Solar-driven green hydrogen generation and storage
Editor : Rohit Srivastava, Jayeeta chattopadhyay, Diogo M.F. Santos
ISBN : 9780323995801
Publisher : Elsevier
Year : 2023
Call Number : TP359 .H8S665 3

Abstract

Solar-Driven Green Hydrogen Generation and Storage presents the latest research and technologies in hydrogen generation through solar energy. With in-depth coverage of three key topics, the book discusses green hydrogen technologies, solid hydrogen storage, and hydrogen energy applications. The book begins with a deep dive into photoelectrochemical water splitting, examining different catalysts, such as perovskite-based, phosphorene-based, polymer-based, transition metal-based single atom, blue-titania, carbon-based, Mxene and semiconductor-based catalysts. Subsequent chapters analyze hydrogen production techniques, including electrolysis, photobiological, thermochemical, and biomass gasification methods. After reviewing key hydrogen storage technologies, the book concludes with a summary of the applications of hydrogen in various industry sectors. This book is an essential resource for students, researchers, and engineers interested in renewable energy, hydrogen production, and energy storage.



Solar-Driven Green Hydrogen Generation and Storage

Edited by
 Rohit Srivastava,
 Jayeeta Chattopadhyay and Diogo M. F. Santos



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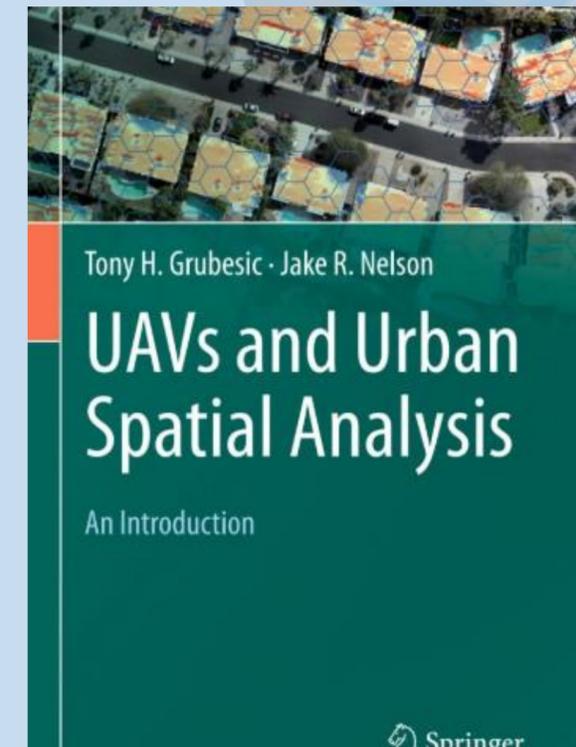
More info :
<https://tinyurl.com/4n8yt5tu>

Title : UAVs and urban spatial analysis : an introduction
 Author : Tony H. Grubestic, Jake R. Nelson
 ISBN : 9783030358679
 Publisher : Springer
 Year : 2020
 Call Number : TL685.35.G786 3

Abstract

This book provides an introduction to the use of unmanned aerial vehicles (UAVs) for the geographic observation and spatial analysis of urban areas. The velocity of urban change necessitates observation platforms that not only enhance situational awareness for planning and allied analytical efforts, but also provide the ability to rapidly and inexpensively collect data and monitor change.

The book provides a resource for educators and students who work with geographic information and are seeking to enhance these data with the use of unmanned aerial vehicles. Topics covered include, 1) a primer on UAVs and the many different ways they can be used for geographic observation, 2) a detailed overview on the use of aviation maps and charts for operating UAVs in complex urban airspace, 3) techniques for integrating UAV-derived data with more traditional geographic information, 4) application of spatial analytical tools for urban and environmental planning, and 5) an exploration of privacy and public safety issues associated with UAV operation.



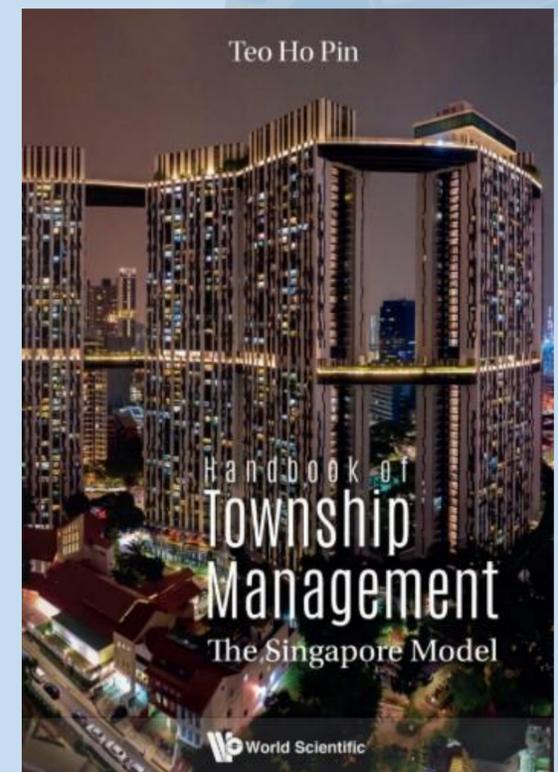
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<https://tinyurl.com/36a2hj5k>

Title : Handbook of township management : The Singapore model
Author : Teo Ho Pin
ISBN : 9789811274077
Publisher : World Scientific Publishing Co. Pte. Ltd
Year : 2023
Call Number : HD7288.78.S55 T46 2023 3

Abstract

Handbook of Township Management is a practice guide which highlights the key professional practices of township management in Singapore. It provides a comprehensive coverage of the purpose, set up, objectives, scope of work, processes and toolkits of town councils in Singapore, including case studies and approaches to resolution of complex problems faced by town councils. Based on the collective experiences of the town councils, various best practices are highlighted to facilitate sharing among town councils to provide better services to serve Housing and Development Board (HDB) residents and stakeholders of HDB towns. The book is a 'must read' for all elected Members of Parliament, appointed town councillors and town council management staff so that they can exercise due diligence in discharging their duties in accordance with the Town Councils Act and Town Councils Financial Rules. It can be used as a handbook for practitioners to upgrade their skills in facilities management and enhance their professionalism in the delivery of quality facility management services to satisfy their clients and customers.



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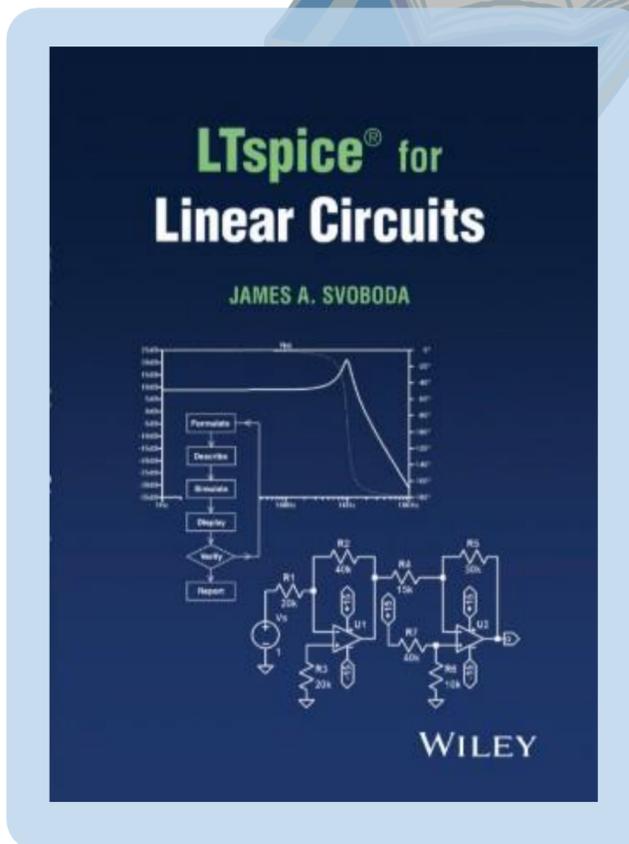
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Title : LTspice® for linear circuits
 Author : James A. Svoboda
 ISBN : 9781119987925
 Publisher : John Wiley & Sons
 Year : 2023
 Call Number : TK454 .S868 3

Abstract

The simulation of electronic circuits is a crucial tool in modern electrical engineering. Many currently available software toolkits for circuit simulation are expensive, or nominally free but with significant restrictions on features and applications. LTspice®, a software distributed by semiconductor manufacturer Analog Devices, is not only the most widely used SPICE-based circuit simulator in the industry, but also free and unrestricted.

LTspice® for Linear Circuits provides a comprehensive introduction to this software and its circuit simulation capabilities. Focusing on the fostering of practical knowledge, the book develops a six-step strategy for solving circuit analysis problems, beginning with the formulation of the problem, and proceeding through the simulation and the review of results. Readable and built around an easy-to-use, accessible software, LTspice® for Linear Circuits is an essential tool for any would-be electrical engineer.



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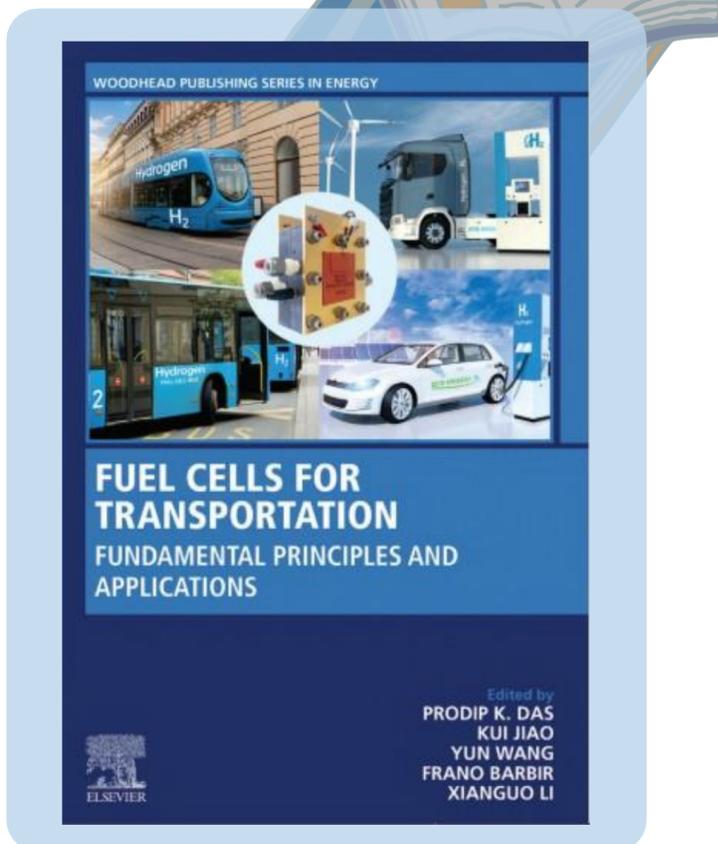
<https://tinyurl.com/mrynmwhy>

Title : Fuel cells for transportation : fundamental principles and applications
Editor : Prodip K. Das, Kui Jiao, Yun Wang, Frano Barbir, Xianguo Li
ISBN : 9780323994859
Publisher : Woodhead Publishing
Year : 2023
Call Number : TK2931 .F8433 3

Abstract

Fuel Cells for Transportation: Fundamental Principles and Applications is the first comprehensive reference on the application of fuel cells for light- and heavy-duty transportation. Addressing the subject from both a materials and engineering perspective, the book examines integration, modeling, and optimization of fuel cells from fundamentals to the latest advances. Chapters address every aspect of fuel cell systems for transport applications, including performance optimization, stack characterization, low-cost materials and catalysts, design of bipolar plates and flow fields, water and thermal management, durability under automotive driving cycles, cold start, state of the art characterization, optimization of various components, and more.

Each chapter reviews the fundamental principles of the topic before going on to examine the latest developments alongside current applications and real-world case studies. This is an essential reference for graduate students and researchers working on fuel cells for transport applications, as well as professional engineers involved in the application of fuel cells and clean energy and working in any sector of the transportation industry.



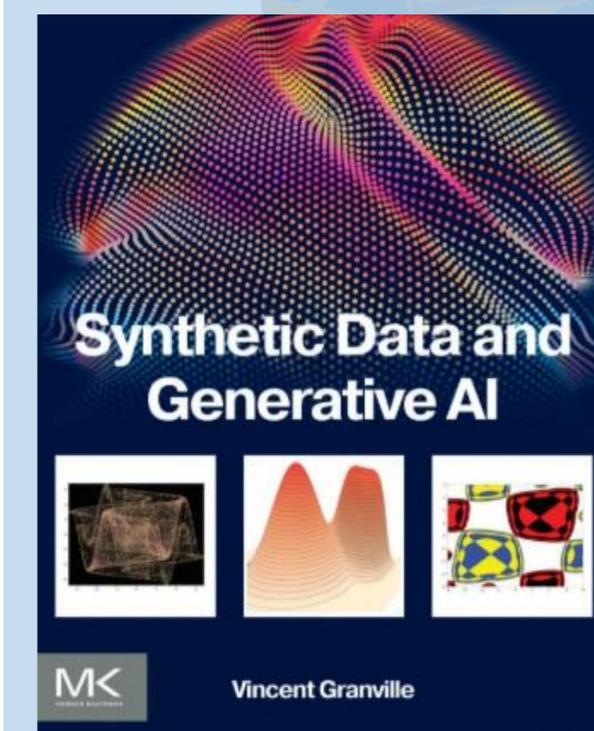
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Title : Synthetic data and generative AI
 Author : Vincent Granville
 ISBN : 9780443218576
 Publisher : Morgan Kaufmann
 Year : 2024
 Call Number : TA347 .A78G733 3

Abstract

Synthetic Data and Generative AI covers the foundations of machine learning, with modern approaches to solving complex problems and the systematic generation and use of synthetic data. Emphasis is on scalability, automation, testing, optimizing, and interpretability (explainable AI). For instance, regression techniques – including logistic and Lasso – are presented as a single method, without using advanced linear algebra. Confidence regions and prediction intervals are built using parametric bootstrap, without statistical models or probability distributions. Models (including generative models and mixtures) are mostly used to create rich synthetic data to test and benchmark various methods.



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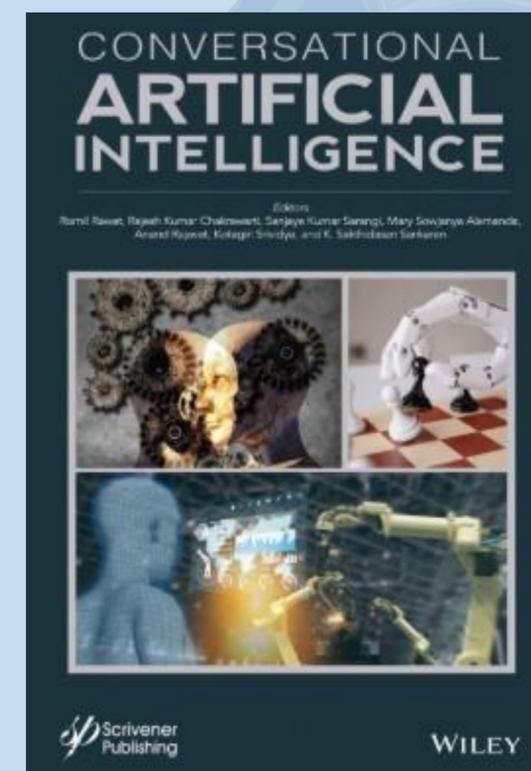
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Title : Conversational artificial intelligence
Editor : Romil Rawat, Rajesh Kumar Chakrawarti, Sanjava Kumar Sarangi, Piyush Vyas, Mary Sowjanya Alamanda, Kotagiri Srividya, K.Sakthidasan Sankaran.
ISBN : 9781394200566
Publisher : Scrivener Publishing
Year : 2024
Call Number : Q335 .C666 3

Abstract

This book reviews present state-of-the-art research related to the security of cloud computing including developments in conversational AI applications. It is particularly suited for those that bridge the academic world and industry, allowing readers to understand the security concerns in advanced security solutions for conversational AI in the cloud platform domain by reviewing present and evolving security solutions, their limitations, and future research directions.

Conversational AI combines natural language processing (NLP) with traditional software like chatbots, voice assistants, or an interactive voice recognition system to help customers through either a spoken or typed interface. Conversational chatbots that respond to questions promptly and accurately to help customers are a fascinating development since they make the customer service industry somewhat self-sufficient. A well-automated chatbot can decimate staffing needs, but creating one is a time-consuming process. Voice recognition technologies are becoming more critical as AI assistants like Alexa become more popular.



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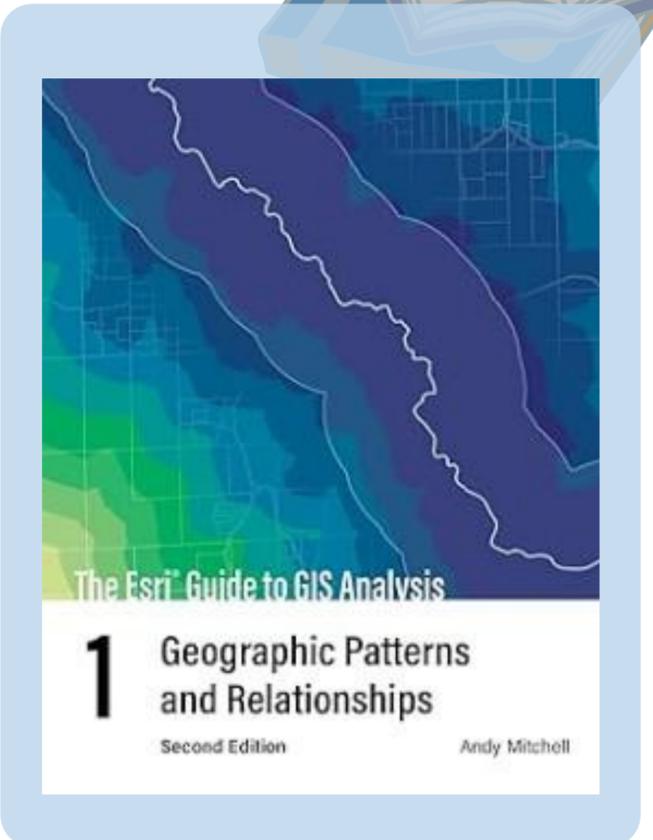
More info :
<https://tinyurl.com/yukxkh3u>

Title : Geographic patterns and relationship (second edition)
 Author : Andy Mitchell
 ISBN : 9781589485792
 Publisher : Esri Press
 Year : 2020
 Call Number : HB1953 .M583 2020 3

Abstract

With easier to read maps and text, The Esri Guide to GIS Analysis, Volume 1, second edition, updates a classic text and describes the basic concepts of spatial analysis and GIS. Build on that understanding with essential map-building skills to unveil and display patterns and relationships. The Esri Guide to GIS Analysis, Volume 1, second edition also includes a guide to online lessons that reinforce the concepts and demonstrate GIS application.

Written for both new and experienced GIS users using an easy to follow format, the second edition of The Esri Guide to GIS Analysis, Volume 1 helps you build a foundation of the basic tasks needed to handle a wide range of analysis applications and prepares you for more advanced GIS skills.



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Title : Construction management jumpstart : the best firststep toward a career in construction management

Author : Barbara J. Jackson

ISBN : 9781119451013

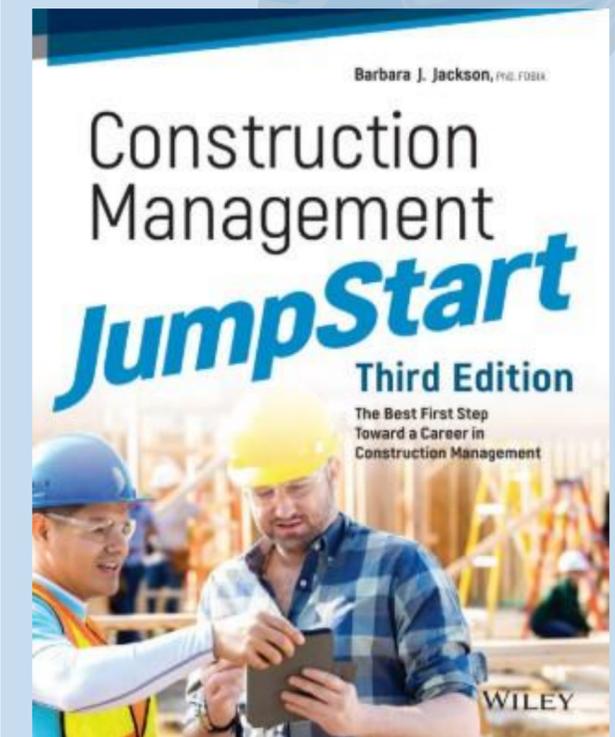
Publisher : Wiley

Year : 2020

Call Number : HD9715 .A2J337 3 2020

Abstract

Construction Management Jumpstart is the definitive introduction to the field, providing a detailed walkthrough of each stage of a project from the construction manager's perspective. Authoritative coverage of fundamental concepts and practices clearly delineates the construction project manager's role, while step-by-step guidance provides valuable instruction for essential management duties. The third edition has been updated to reflect the field's current environment and best practices, giving students a highly-relevant introduction to an evolving industry. Expanded chapters on Virtual Design and Construction and the Construction Contract, and three new chapters include insightful discussion of the pre-construction phase, project team management, and sustainability; challenging chapter review questions help reinforce important concepts and translate them to practice.



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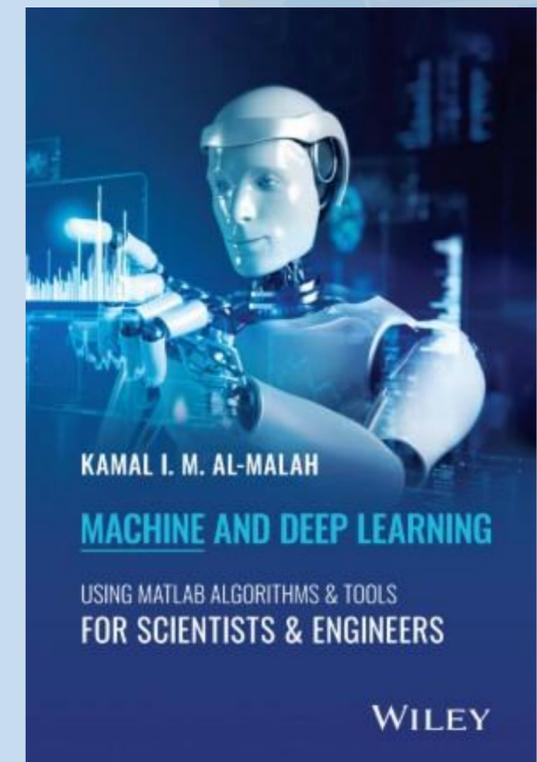
Title : Machine and deep learning using MATLAB : algorithms and tools for scientists and engineers
Author : Kamal I. M. Al-Malah
ISBN : 9781394209088
Publisher : John Wiley & Sons
Year : 2024
Call Number : Q325.5 .A445 3

Abstract

MACHINE AND DEEP LEARNING

In-depth resource covering machine and deep learning methods using MATLAB tools and algorithms, providing insights and algorithmic decision-making processes.

Machine and Deep Learning Using MATLAB introduces early career professionals to the power of MATLAB to explore machine and deep learning applications by explaining the relevant MATLAB tool or app and how it is used for a given method or a collection of methods. Its properties, in terms of input and output arguments, are explained, the limitations or applicability is indicated via an accompanied text or a table, and a complete running example is shown with all needed MATLAB command prompt code.



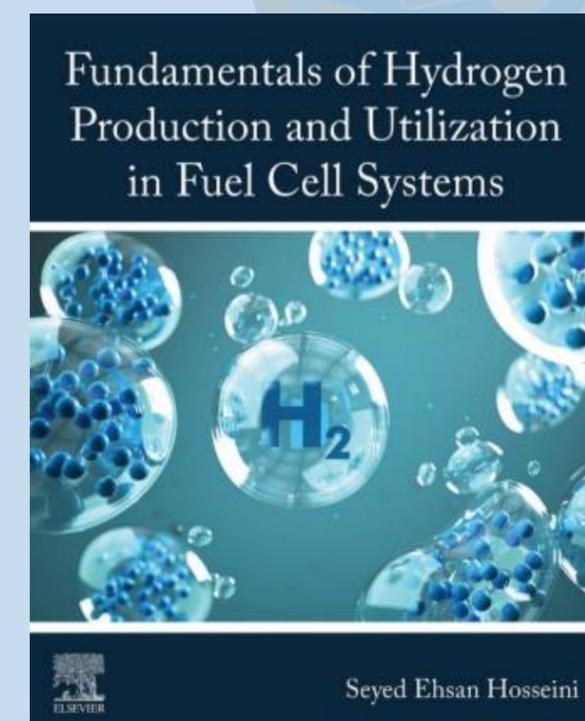
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More info :
<https://tinyurl.com/45c84kx5>

Title : Fundamentals of hydrogen production and utilization in fuel cell systems
Author : Seyed Ehsan Hosseini
ISBN : 9780323886710
Publisher : Elsevier
Year : 2023
Call Number : TP359 .H8H679 3

Abstract

Fundamentals of Hydrogen Production and Utilization in Fuel Cell Systems provides a comprehensive overview of the complex and interdisciplinary issues surrounding the use of hydrogen fuel cells in the global transportation system. With a particular emphasis on the commercialization and implementation of hydrogen fuel cells, the book deals with production, utilization, storage and safety, and addresses the application of fuel cells in the road, rail, maritime and aviation sectors. For each sector, the book discusses the fundamentals of fuel cells, the current technical, environmental, safety, and economic performance, the main barriers to implementation and how to address them. This book is an invaluable reference for researchers, graduate students and industry engineers across the fuel cells and transportation sector, but is also ideal for policymakers involved in the energy transition. Offers the first account of hydrogen fuel cell systems that considers every sector: road, rail, maritime and aviation. Focuses on the practical utilization and implementation of hydrogen fuel cells in transportation systems. Summarizes the latest research and developments in hydrogen fuel cell powered transportation.



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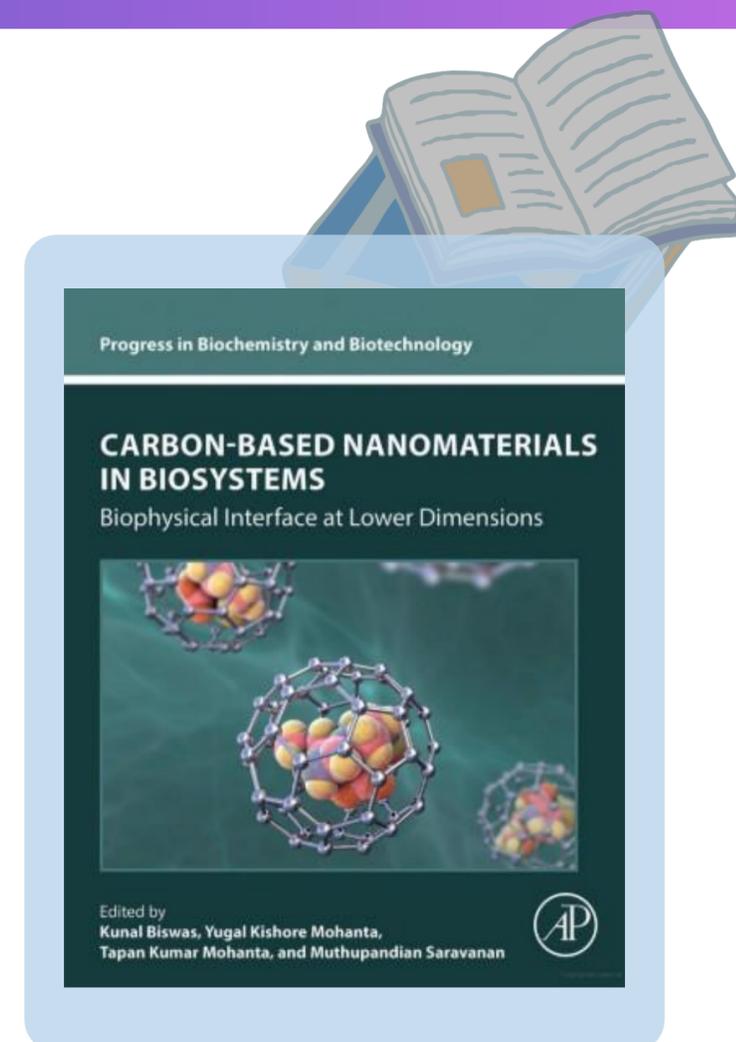
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Title : Carbon-based nanomaterials in biosystems : biophysical interface at lower dimensions
Editor : Kunal Biswas, Yugal Kishore Mohanta, Tapan Kumar Mohanta, Muthupandian Saravanan
ISBN : 9780443155086
Publisher : Academic Press
Year : 2024
Call Number : TA418.9 .N35C37 3

Abstract

The book articulates the underlying physics, chemistry, and the basic phenomenon of the broad-range carbon-based nanomaterials (CNMs) with the biological systems particularly the interface analysis.

Organized in six sections, it discusses state-of art technological interventions of carbon-based nanomaterials and their application in biomedical sectors in healthcare, food sciences, and technology. The book also highlights the carrying capacity of different CNMs in payload efficiency mechanisms in various biomedical fields. The theranostic efficiency and the safety of various forms of CNMs is assessed. Carbon-Based Nanomaterials in Biosystems is a helpful resource to those specializing in the areas of nanomedicine, bionanomaterials and nanotechnology applications.



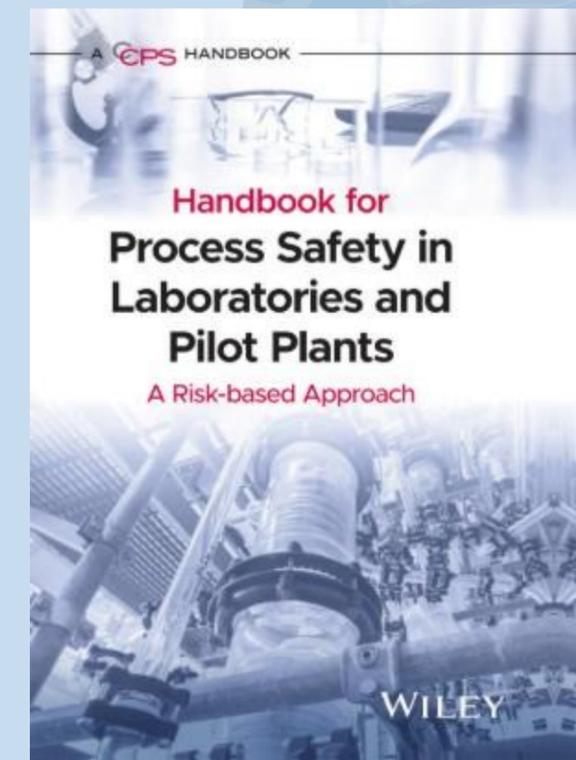
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Title : Handbook for process safety in laboratories and pilot plants : a risk-based approach
 ISBN : 9781119010135
 Publisher : John Wiley & Sons
 Year : 2023
 Call Number : QD51 .H336 3

Abstract

In Handbook for Process Safety in Laboratories and Pilot Plants: A Risk-based Approach, the Center for Chemical Process Safety delivers a comprehensive and authoritative presentation of process safety procedures and methods for use in laboratories and pilot plants (LAPPs). Of the four broad hazard categories — chemical, physical, biological, and ionizing radiation — this book focuses on the two most common: chemical and physical hazards. It addresses the storage and handling of the hazardous materials associated with activities commonly performed in LAPPs and presents many of the physical and chemical analytical techniques used to verify and validate the efficacy of safety management systems.



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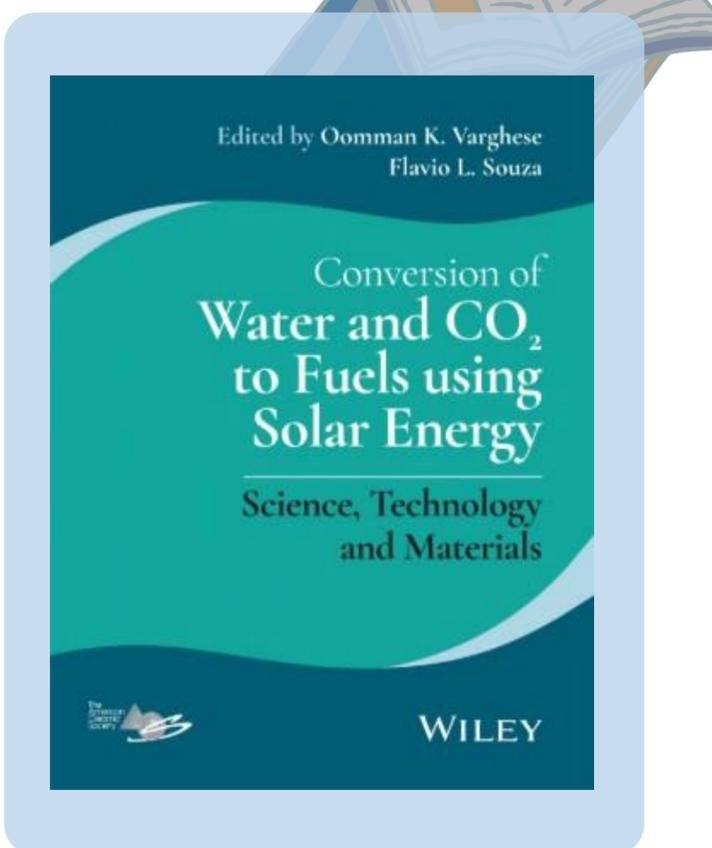
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Title : Conversion of water and CO₂ to fuels using solar energy : science, technology and materials
Editor : Oomman K. Varghese, Flavio L. Souza
ISBN : 9781119600848
Publisher : John Wiley & Sons
Year : 2024
Call Number : TJ810 .C666 3

Abstract

The book presents the fundamental science, technologies, techno-economic analysis, and most importantly, the materials that are being explored to establish artificial methods of fuel production using solar energy. For the rapid advancement of the field, it is necessary for researchers, particularly for those who are new to the field, to have clear knowledge of various materials studied so far and their performance. For this reason, almost half of the book is dedicated to the discussions on materials and properties. Key topics discussed in the book include:

Photocatalytic/photoelectrochemical processes that use semiconductor photocatalysts, including both ceramic and non-ceramic materials
 Photovoltaic assisted electrochemical processes
 Solar thermochemical processes
 Molecular photosynthesis.



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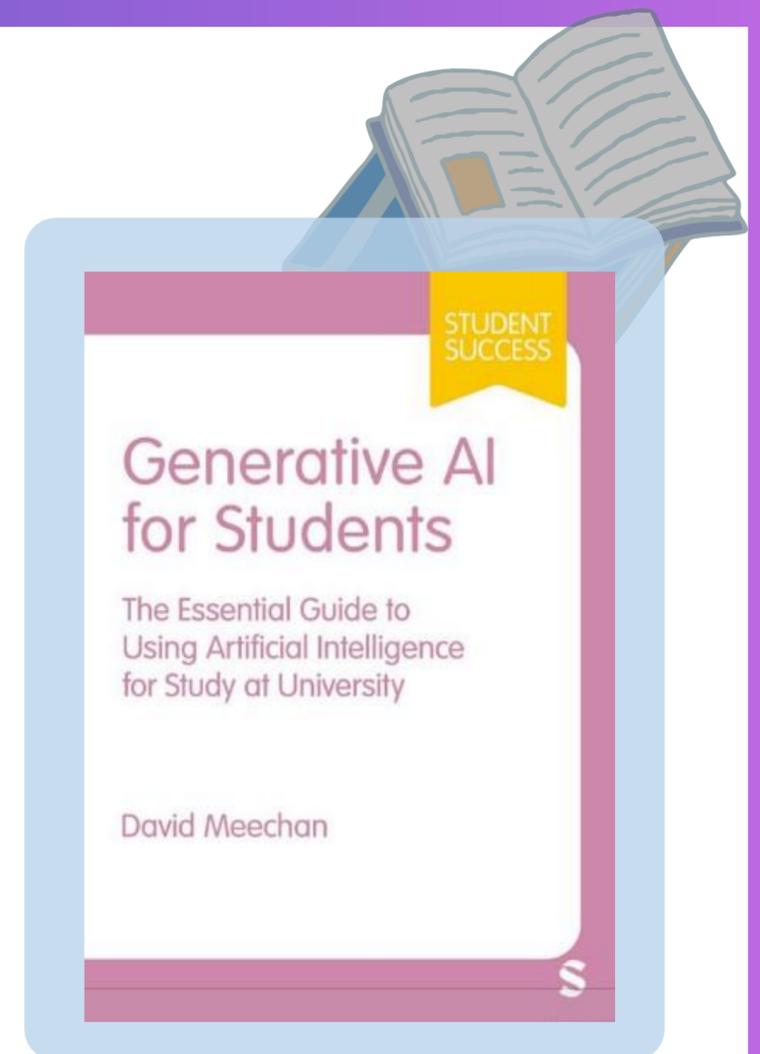
Title : Generative AI for students : the essential guide to using artificial intelligence for study at university
Author : David Meechan
ISBN : 9781529683424
Publisher : Sage Publications Ltd
Year : 2025
Call Number : Q335.7 .M443 3

Abstract

This practical guide puts a study buddy at your fingertips, showing you how to ethically leverage Generative Artificial Intelligence as a powerful study aid. Exploring a wide spectrum of topics, from demystifying jargon and fostering critical thinking to addressing diversity, inclusion and academic integrity, this book is an essential companion for any student looking to enhance their academic skill set and succeed in their studies.

By the end of this book you will:

- Become critically literate at using Generative AI
- Understand what the ethical use of Generative AI looks like in practice
- Learn how to use Generative AI to enhance traditional study methods
- Encounter real-life case studies and worked-through examples to put theory into practice
- Gain a comprehensive grounding in how to engage with Generative AI Tools



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Title : PRINTABLE : printing techniques and effects in visual design
Editor : Viction Workshop
ISBN : 9789887462965
Publisher : Viction Workshop Limited
Year : 2023
Call Number : Z116 .P777 3

Abstract

PRINTABLE is a stunning showcase of familiar and innovative methods that elevate printed matter for branding and beyond.

In an increasingly digital world, the art of printing has become more precious than ever. Although screens continue to take over society and sustainable practices have improved the preservation of natural resources, many designers still thrive on delivering tactile experiences, experimenting with new techniques or being inventive with conventional materials to bring their ideas to life in meaningful and visually impactful ways.

Featuring printing experts, printmakers, and creative projects from around the world, PRINTABLE celebrates craftsmanship and serves to inspire those looking to add more character and dimension to their work.



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Title : Ai Weiwei : making sense
Editor : Justin McGuirk
ISBN : 9781872005638
Publisher : The Design Museum Publishing
Year : 2023
Call Number : N7349 .A5A389 2023 3

Abstract

Ai Weiwei's archaeological exploration of the histories and skills that have been ignored or erased, through objects from his personal collections.

Known around the world for his powerful art and activism, Ai Weiwei (born 1957) does not differentiate between disciplines: his practice glides across art, architecture, design, film, collecting and curating. Richly illustrated with over 200 images, Ai Weiwei: Making Sense is the first major publication to present Ai's work as a commentary on design and what it reveals about our changing values. It presents a selection of Ai's collected objects, from ancient stone axe heads to porcelain teapot spouts, from Neolithic tools to modern mass-produced products, as well as new works created specifically for the Design Museum. These collections draw from the artist's fascination with historical Chinese artifacts, placing their craftsmanship in dialogue with China's more recent history of demolition and urban development.



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Title : The iconic British house : modern architectural masterworks since 1900
Author : Dominic Bradbury
ISBN : 9780500343746
Publisher : Thames & Hudson Ltd
Year : 2023
Call Number : NA7328 .B733 3

Abstract

A comprehensive survey of fifty of Britain's most architecturally significant houses from 1900 to the present, featuring established names alongside the work of fresh emerging talents in the twenty-first century. Covering the major design movements of the past 120 years, including art deco, modernism, and postmodernism, this book also offers a unique insight into changing tastes and attitudes about the home in Britain.

In recent years there has been a resurgence of interest in the architectural history and heritage of Britain. This has been driven by many important political, cultural, and social factors, from Brexit to the rise of the staycation, as well as a powerful and renewed interest in the design of house and home.



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