

BUKU BAHARU JULAI 2024

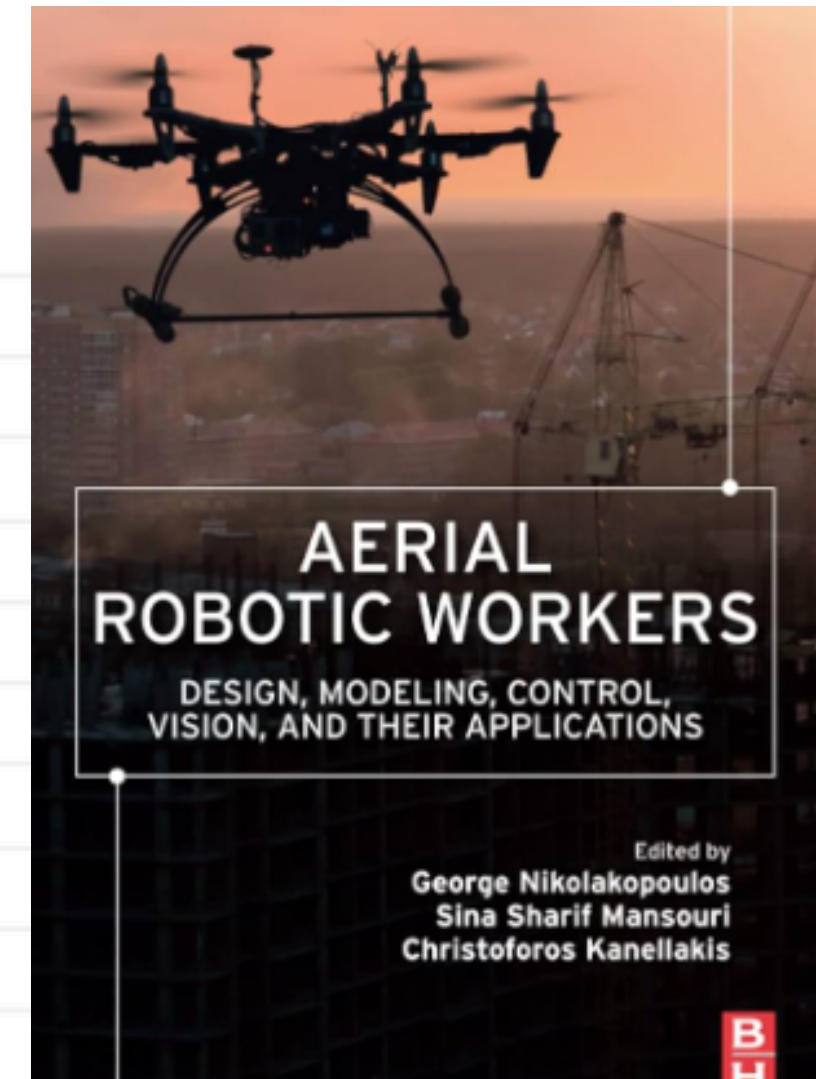
PERPUSTAKAAN LINGKUNGAN KEDUA



Title : Aerial Robotic Workers Design, Modeling, Control, Vision and Their Applications
Editors : Christoforos Kanellakis, George Nikolakopoulos, Sina Sharif Mansouri
ISBN : 9780128149096
Publisher : Elsevier Science
Year : 2023

Abstract:

Aerial Robotic Workers: Design, Modeling, Control, Vision and Their Applications provides an in-depth look at both theory and practical applications surrounding the Aerial Robotic Worker (ARW). Emerging ARWs are fully autonomous flying robots that can assist human operations through their agile performance of aerial inspections and interaction with the surrounding infrastructure. This book addresses all the fundamental components of ARWs, starting with the hardware and software components and then addressing aspects of modeling, control, perception of the environment, and the concept of aerial manipulators, cooperative ARWs, and direct applications. The book includes sample codes and ROS-based tutorials, enabling the direct application of the chapters and real-life examples with platforms already existing in the market. Addresses the fundamental problems of UAVs with the ability of utilizing aerial tools in the fields of modeling, control, navigation, cooperation, vision and interaction with the environment Includes open source codes and libraries, providing a complete set of information for readers to start their experimentation with UAVs, and more specifically, ARWs Provides multiple, real-life examples and codes in MATLAB and ROS



No. Panggilan :
TL685.35.A347 3
Lokasi : Rak Pameran,
Aras 2
For more info:
<https://shorturl.at/LUeKk>



**Imbas kod
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Title : Sustainable Energy Management Planning, Implementation, Control, and Security,
Second Edition

Authors: Mirjana Radovanovic

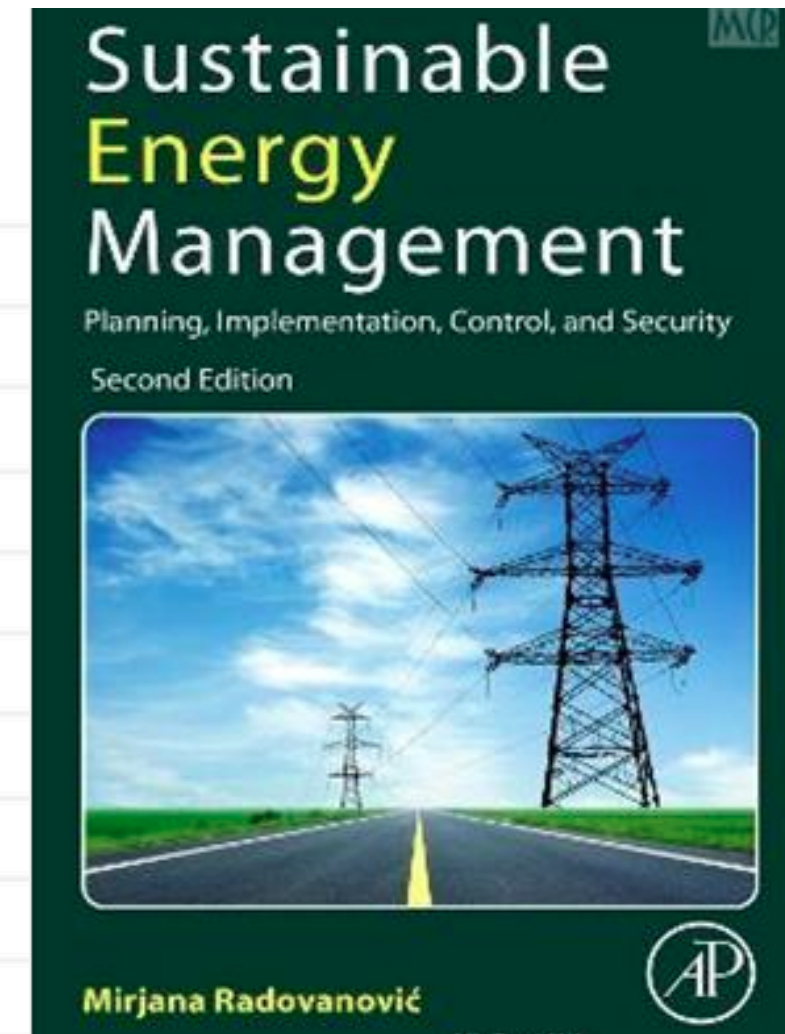
ISBN : 9780128210864

Publisher : Elsevier Science

Year : 2023

Abstract:

Sustainable Energy Management: Planning, Implementation, Control and Strategy, Second Edition provides the key concepts and practical knowledge needed to successfully plan, implement and control sustainable energy technologies. The book provides new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources, efficiency improvements, and unique insights on managing risk. It highlights the possible financial and practical impacts of these activities, as well as the methods for their calculation. This new edition provides updated guidelines for planning, analyzing, developing and optimizing sustainable energy production projects in the real world, also presenting real-life examples of the topics covered in each chapter. With its focus on real-life issues and discussions of practical challenges, this book is an ideal resource for engineers, researchers and energy managers developing and rolling out sustainable energy practices. Included case studies will help benchmark decisions, especially in the book's new chapter on energy security.



No. Panggilan :

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**Lokasi : Rak Pameran,
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**Imbas kod
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Title : Smart Electrical and Mechanical Systems An Application of Artificial Intelligence and Machine Learning

Editors: Anuradha Tomar, Mukund Dutt Sharma, Neeraj Gupta, Rakesh Sehgal, Vigna Kumaran

ISBN : 9780323907897

Publisher : Elsevier Science

Year : 2022

Abstract:

Smart Electrical and Mechanical Systems: An Application of Artificial Intelligence and Machine Learning is an international contributed work with the most up-to-date fundamentals and conventional methods used in smart electrical and mechanical systems. Detailing methods and procedures for the application of ML and AI, it is supported with illustrations of the systems, process diagrams visuals of the systems and/or their components, and supportive data and results leading to the benefits and challenges of the relevant applications. The multidisciplinary theme of the book will help researchers build a synergy between electrical and mechanical engineering systems.

The book guides readers on not only how to effectively solve problems but also provide high accuracy needed for successful implementation. Interdisciplinary in nature, the book caters to the needs of the electrical and mechanical engineering industry by offering details on the application of AI and ML in robotics, design and manufacturing, image processing, power system operation and forecasting with suitable examples.



No. Panggilan :

Q325.5.S637 3

**Lokasi : Rak Pameran,
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For more info:

<https://shorturl.at/EwNTH>



**Imbas kod
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Title : Intelligent Nanotechnology Merging Nanoscience and Artificial Intelligence
Editors : Yuebing Zheng, Zilong Wu
ISBN : 9780323857963
Publisher : Elsevier Science
Year : 2023

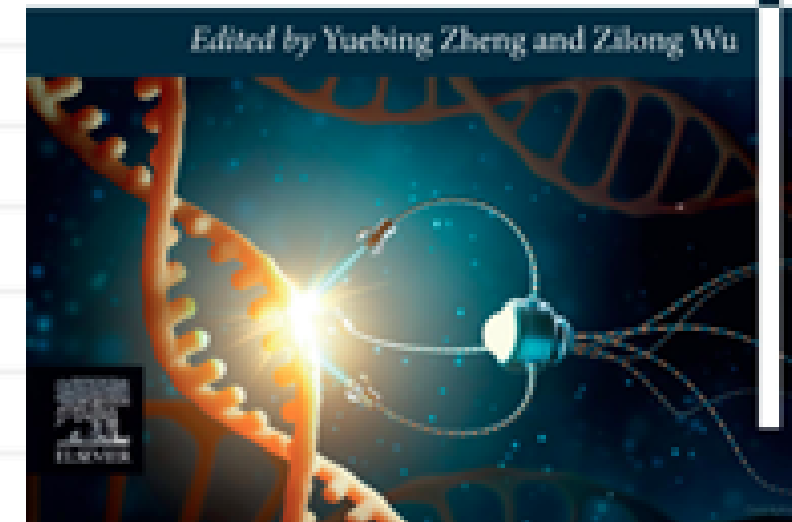
Abstract:

Intelligent Nanotechnology: Merging Nanoscience and Artificial Intelligence provides an overview of advances in science and technology made possible by the convergence of nanotechnology and artificial intelligence (AI). Sections focus on AI-enhanced design, characterization and manufacturing and the use of AI to improve important material properties, with an emphasis on mechanical, photonic, electronic and magnetic properties. Designing benign nanomaterials through the prediction of their impact on biology and the environment is also discussed. Other sections cover the use of AI in the acquisition and analysis of data in experiments and AI technologies that have been enhanced through nanotechnology platforms. Final sections review advances in applications enabled by the merging of nanotechnology and artificial intelligence, including examples from biomedicine, chemistry and automated research.

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Connecting the materials community

**Intelligent
Nanotechnology**
Merging Nanoscience
and Artificial Intelligence

Edited by Yuebing Zheng and Zilong Wu



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**Lokasi : Rak Pameran,
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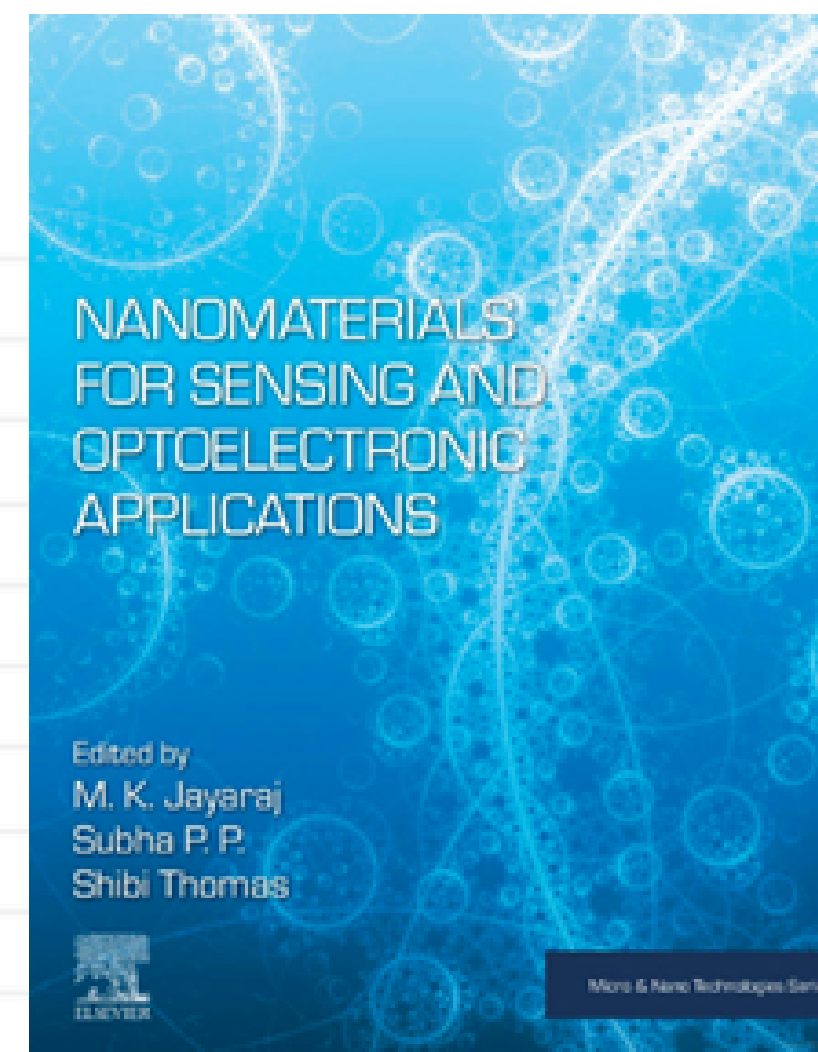


**Imbas kod
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Title : Nanomaterials for Sensing and Optoelectronic Applications
Editors : M. K. Jayaraj, P.P. Subha, Shibi Thomas
ISBN : 9780128240083
Publisher : Elsevier Science
Year : 2022

Abstract:

Nanomaterials for Sensing and Optoelectronic Applications explores recent trends in nanomaterials and devices for chemical and biosensing applications. The synthesis, properties and applications of metal oxide nanostructures, as well as two-dimensional layered materials are covered, along with the fabrication of optoelectronic devices, such as chemical sensors, biosensors, core-shell nanostructures-based surface-enhanced Raman spectroscopy (SERS) substrates, luminescent nanoparticles, memory devices, and thin film transistors. Aiming at researchers in these respective areas, the fundamental principles and mechanisms of the optoelectronic phenomena behind every application mentioned are covered and comprehensively explored. The book will be helpful in solving problems related to the synthesis and growth of various nanostructures, the application of these materials for various devices, and to understand how a specific synthesis route promotes a specific application.



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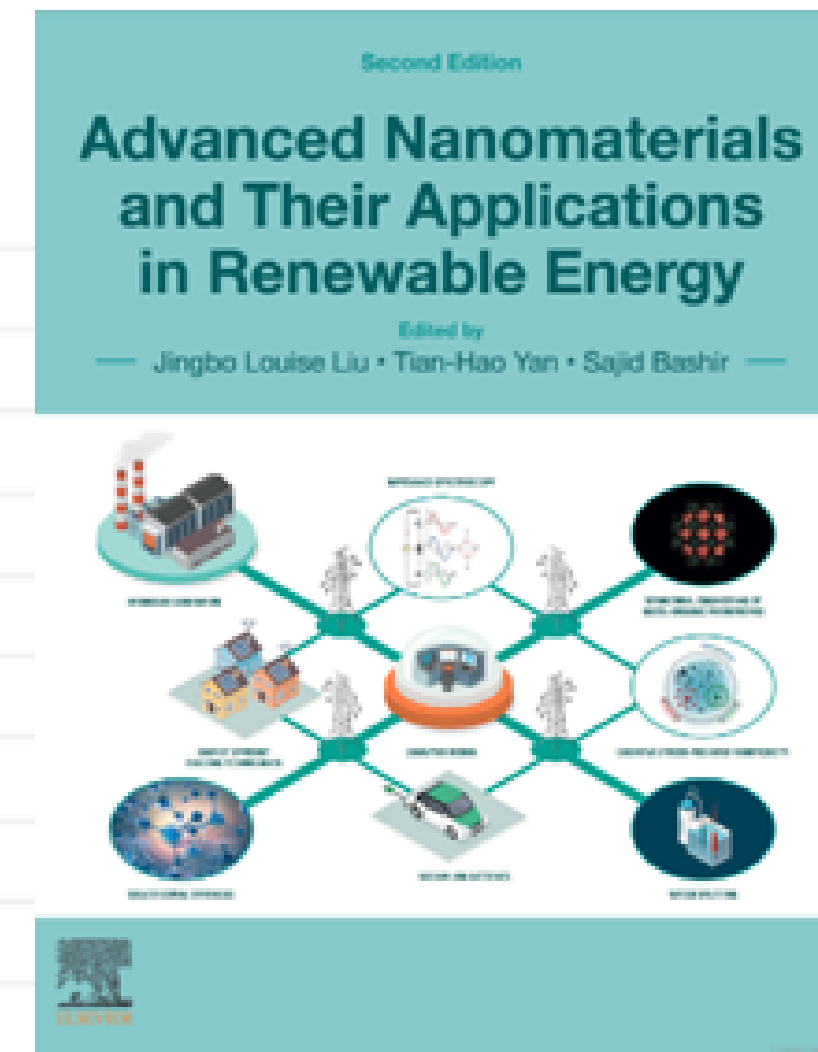


**Imbas kod
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Title : Advanced Nanomaterials and Their Applications in Renewable Energy
Editors : Jingbo Louise Liu, Sajid Bashir, Tian-Hao Yan
ISBN : 9780323998772
Publisher : Elsevier Science
Year : 2022

Abstract:

Advanced Nanomaterials and Their Applications in Renewable Energy, Second Edition presents timely topics related to nanomaterials' feasible synthesis and characterization and their application in the energy fields. The book examines the broader aspects of energy use, including environmental effects of disposal of Li-ion and Na batteries and reviews the main energy sources of today and tomorrow, from fossil fuels to biomass, hydropower, storage power and solar energy. The monograph treats energy carriers globally in terms of energy storage, transmission, and distribution, addresses fuel cell-based solutions in transportation, industrial, and residential building, considers synergistic systems, and more. This new edition also offers updated statistical data and references; a new chapter on the synchronous x-ray based analysis techniques and electron tomography, and if waste disposal of energy materials pose a risk to the microorganism in water, and land use; expanding coverage of renewable energy from the first edition; with newer color illustrations.



No. Panggilan :
TA418.9.N35A3846 2022 3
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<https://shorturl.at/jkIEG>



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