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BOOK CHAPTER

SR. NO – 1

Enabling Technologies for Effective Planning and Management in Sustainable Smart Cities

IoT and an Intelligent Cloud-Based Framework to Build a Smart City Traffic Management System

Ashish Sharma

https://link.springer.com/book/10.1007/978-3-031-22922-0

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Enabling Technologies for Effective Planning and Management in Sustainable Smart Cities

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Editors: <u>Mohd Abdul Ahad</u>, <u>Gabriella Casalino</u>, <u>Bharat</u> <u>Bhushan</u>

This book provides the basic knowledge about smart cities, its components and challenges in its effective realization

This book sheds light on the know-how about the role of enabling technologies in effective management of smart cities to make them a better abode for the inhabitants

The book explores various enabling technologies like Information Communication Technology (ICT), edge computing, AI, NLP, IoT, blockchain, and cloud computing

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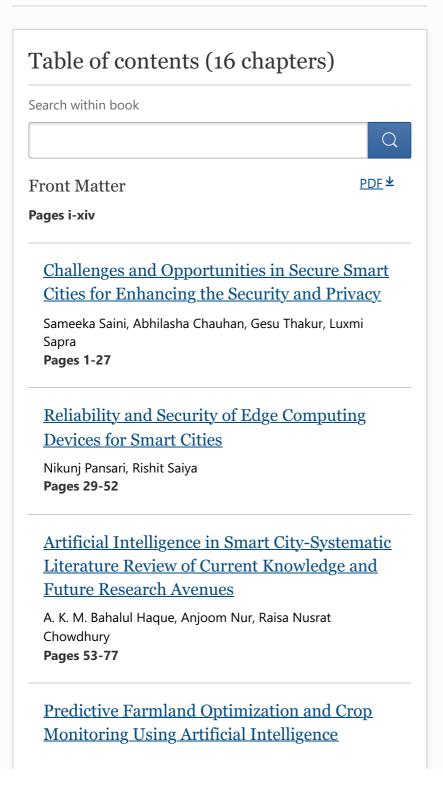
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IoT and an Intelligent Cloud-Based Framework to Build a Smart City Traffic Management System

Saroja Kumar Rout, Bibhuprasad Sahu, Pradyumna Kumar Mohapatra, Sachi Nandan Mohanty & Ashish K. Sharma

Chapter | First Online: 26 February 2023

314 Accesses 1 Citations

Abstract

Congestion is a major issue in all metropolitan cities, particularly in urban areas. Using smart technologies, Cities may be extraordinary and can be transformed into "smart cities". The Internet of Things (IoT) is a new paradigm in computing that seems to have the capacity to enhance impact in smart city implementation. For smart cities, IoT and cloud-based road traffic technologies are proposed in this article. The overarching goal is to use cloud computing to resolve some of the IoT's present issues and limits to create upgraded solutions for smarter cities. With the



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BOOK CHAPTER

SR. NO – 2

Lecture Notes in Civil Engineering

Proceedings of 17th Symposium on Earthquake Engineering (Vol. 3)

Seismic Analysis of Railway Track

H. D. Phadke

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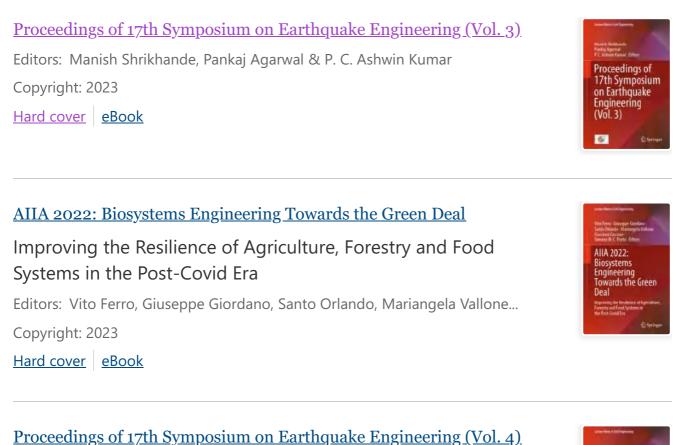
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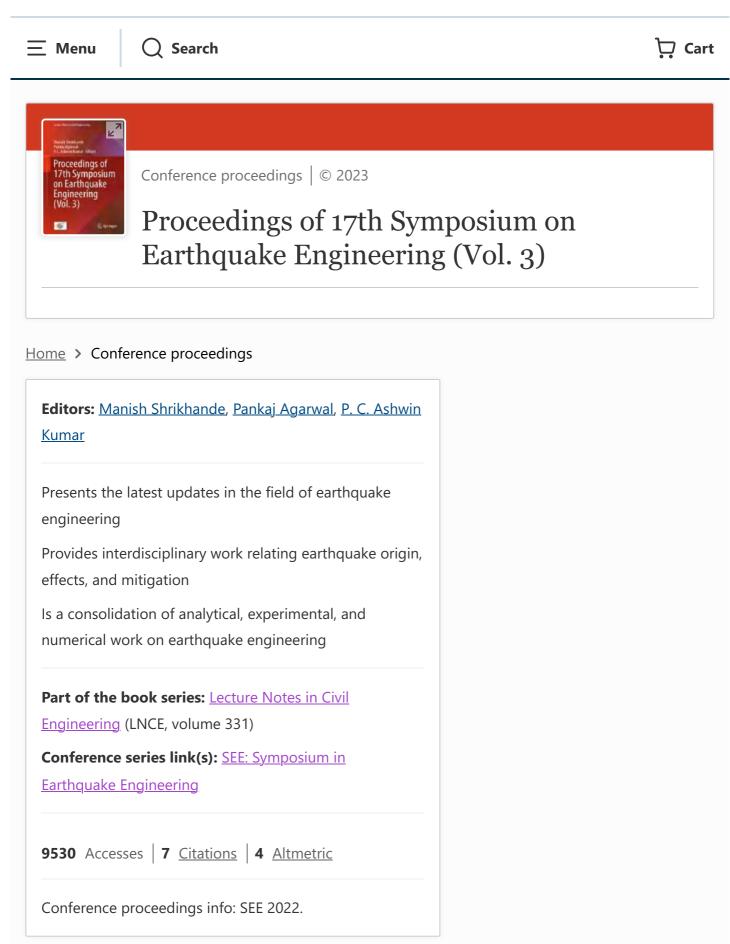
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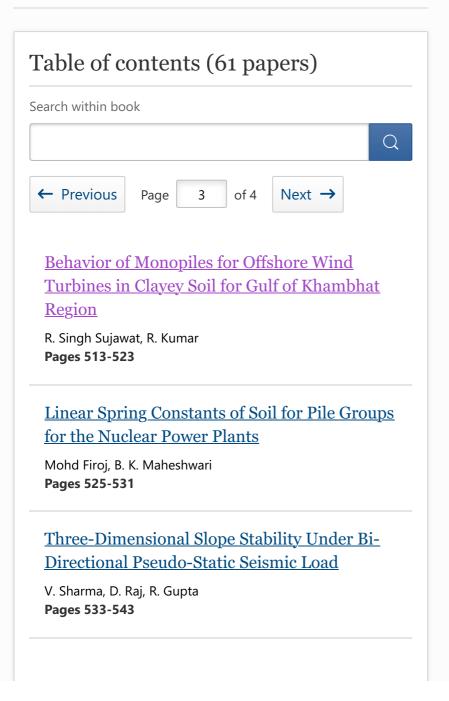
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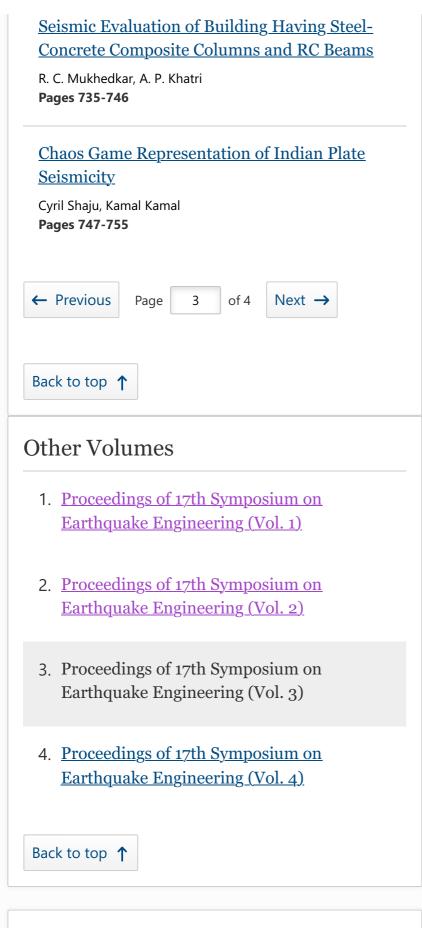
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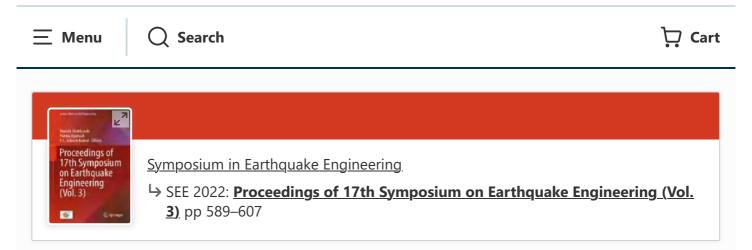
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About this book

This book presents select proceedings of the 17th Symposium on Earthquake Engineering organized by the Department of Earthquake Engineering, Indian

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Seismic Analysis of Railway Track

A. S. Ghogre [⊡], <u>H. D. Phadke</u> & <u>O. R. Jaiswal</u>

Conference paper First Online: 03 July 2023

158 Accesses

Part of the <u>Lecture Notes in Civil Engineering</u> book series (LNCE,volume 331)

Abstract

In the past earthquakes, there are quite a few instances wherein railway tracks got damaged. There are also instances when train (coach) got derailed either in stationary or running conditions like in the Tangshan Earthquake of July 1976, when nine trains were overturned and derailed (Esmaeili and Noghabi in J. Transp. Eng. 139(7):697–708, [1]). There are many studies on dynamic response of railway tracks to moving loads; however, there are very few studies on seismic response of railway tracks. Particularly, the lateral seismic response of ballasted track is not properly understood Sogabe et al. (Q. Rep. RTRI. 54(2):104–111, [2]). In the present study, seismic



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BOOK CHAPTER

SR. NO – 3

Computational Intelligence In Manufacturing

An approach for machining curve cooling hole in plastic injection mold

Vikas Gohil

https://www.sciencedirect.com/book/9780323918541/computational-intelligence-inmanufacturing



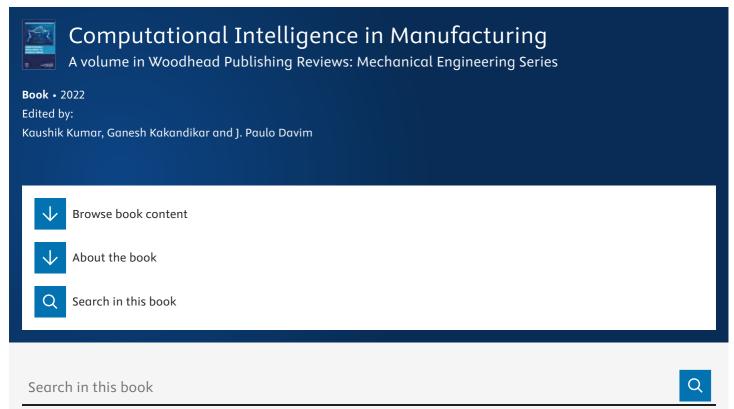


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Details

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Chapter Two - An approach for machining curve cooling hole in plastic injection mold

<u>Diwesh Babruwan Meshram</u>^a, <u>Yogesh M. Puri^b</u>, <u>Sachin Ambade</u>^c, <u>Vikas Gohil^d</u>, <u>Ganadhar Rajaram Navnage</u>^e

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Abstract

In this chapter, a curved hole machining mechanism is developed on z-axis numerical control (ZNC) <u>electrical</u> <u>discharge</u> machine (EDM). The unique mechanism operates through the computer intelligence programmable electronic control systems (ECS). The experimental methodology is identified with three distinct workpiece materials and curved copper tool. The result analysis of curved hole machined is evaluated in four categories. First, the maximum <u>material removal rate</u> (MRR) and minimum tool wear rate (TWR) were estimated at 51.304mm³/min and 0.3mm³/min, respectively. Second, the mean dimensional accuracy of the machined curved hole with the designed curved hole is found in pilot experimentation (96.87%). Third, the output belongs to the surface roughness, which is achieved in P20 mold steel material (4.609µm), followed by material characterization using scanning electron microscopy (SEM). The developed machining mechanism has been successfully experimented and validated by derived results.

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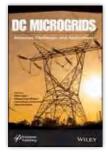
SR. NO - 4

DC Micro grid - Advances, Challenges, and Applications

Passive Islanding Detection Method using Static Transfer Switch for Multi-DGs Microgrid

Rahul Somalwar

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DC Microgrids: Advances, Challenges, and Applications

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About this book

DC MICROGRIDS

Written and edited by a team of well-known and respected experts in the field, this new volume on DC microgrids presents the state-of-the-art developments and challenges in the field of microgrids for sustainability and scalability for engineers, researchers, ... Show all \sim

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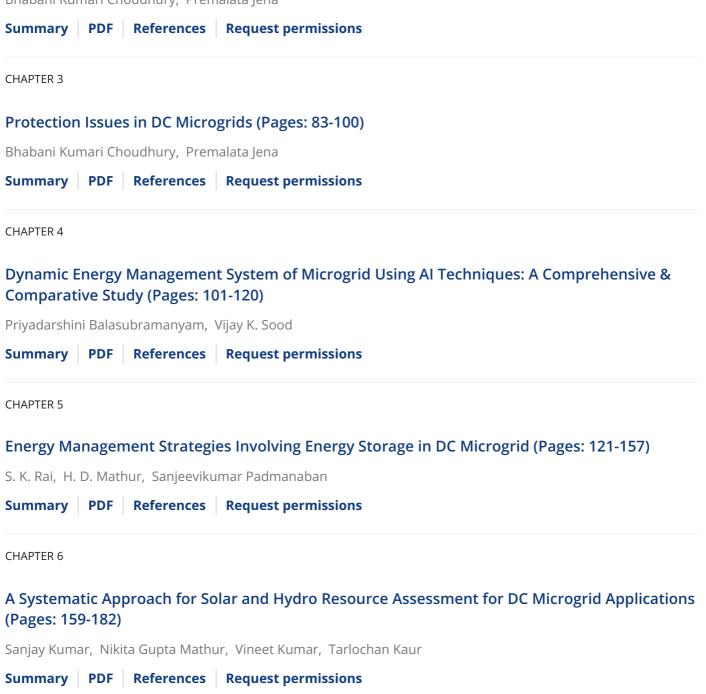
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Passive Islanding Detection Method Using Static Transfer Switch for Multi-DGs Microgrid (Pages: 421-448)

Rahul S. Somalwar, S. G. Kadwane

Passive Islanding Detection Method Using Static Transfer Switch for Multi-DGs Microgrid

Rahul S. Somalwar 🔀, S. G. Kadwane

Book Editor(s):Nikita Gupta, Mahajan Sagar Bhaskar, Sanjeevikumar Padmanaban, Dhafer Almakhles

First published: 25 May 2022 https://doi.org/10.1002/9781119777618.ch14

Summary

The designing and controlling of the microgrid in both modes, stand-alone mode and utilityconnected mode, is a central concern. After main grid interruption and resynchronization with the grid, the power sharing is an interesting task. Similarly, in a single-phase inverter-based microgrid, the islanding occurs during grid dis-connection, which is one of the important aspects.

In this paper, appropriate relay management in a single-phase system is projected for islanding and active power allocation in between multi-distribution generations (DGs) units. Micro-switch acting as a relay is used here for disconnection and synchronization of DGs by using Static Transfer Switch (STS). There are several types of islanding detection methods (IDM) out of these passive islanding methods that are competent, financially cheaper and easily implemented; however, they have large non-detection zones (NDZ). The conventional passive islanding methods are unable to sense islanding conditions when the generating power is approximately equal to load power. In this paper, various passive and active islanding methods are discussed along with their merits and demerits, and individual lower-order harmonics are investigated along with STS, which, as a new effective passive islanding method, is proposed for the inverter centered utility connected system. This scheme can be properly useful along with the existing passive methods. The proposed method overcomes the limitation of the passive method and has a benefit that it is able to reduce the Non-Detection Zone (NDZ). The test result of simulation and experimental set up is analyzed, which fulfills the requirement of IEEE 1547 standards.

References

Olivares , Daniel E. , Ali Mehrizi-Sani , Amir H. Etemadi , Claudio A. Cañizares , Reza Iravani , Mehrdad Kazerani , Amir H. Hajimiragha et al. " Trends in microgrid control ." *IEEE Transactions on Smart Grid* , vol. **5** , no. 4 , pp. 1905 — 1919 , March 2014 .

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BOOK SR. NO – 5

Blockchain Technology Myths, Realities and Future

Ashish K Sharma

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Blockchain Technology

Exploring Opportunities, Challenges, and Applications

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About this book

This book presents a framework for developing an analytics strategy that includes a range of activities, from problem definition and data collection to data warehousing, analysis, and decision making. The authors examine best practices in team analytics strategies such as player evaluation, game strategy, and training and performance. They also explore the way in which organizations can use analytics to drive additional revenue and operate more efficiently. The authors provide keys to building and organizing a decision intelligence analytics that delivers insights into all parts of an organization. The book examines the criteria and tools for evaluating and selecting decision intelligence analytics technologies and the applicability of strategies for fostering a culture that prioritizes data-driven decision making. Each chapter is carefully segmented to enable the reader to gain knowledge in business intelligence, decision making and artificial intelligence in a strategic management context.

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Analytics Techniques: Descriptive Analytics, Predictive Analytics, and Prescriptive Analytics

<u>Ashish K. Sharma</u> [⊡], <u>Durgesh M. Sharma</u>, <u>Neha Purohit</u>, <u>Saroja</u> <u>Kumar Rout</u> & <u>Sangita A. Sharma</u>

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2050 Accesses | 4 Citations

Part of the <u>EAI/Springer Innovations in Communication and</u> <u>Computing</u> book series (EAISICC)

Abstract

Strategic business management focuses on setting goals, surveying the competitive surroundings, organization internal operation, assessing strategic planning, and making sure that management spreads out the strategic planning across the organization through wise decision-making processes. Decision intelligence is a new buzzword that acts as a better framework for decision-making models. Organizations often have to make firm decisions for better efficiency,



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BOOK CHAPTER

SR. NO - 7

Lecture Notes in Civil Engineering

Advances in Transportation Geotechnics IV Lecture Notes in Civil Engineering

A Study on Suction Properties, Subgrade Modulus and Compressibility of Marine Soil Subgrade for Flexible Pavements

Ram Wanare

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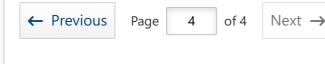
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About this book

This volume presents selected papers presented during the 4th International Conference on Transportation Geotechnics (ICTG). The papers address the geotechnical challenges in design, construction, maintenance, monitoring, and upgrading of roads, railways, airfields, and harbor facilities and other ground transportation infrastructure with the goal of providing safe, economic, environmental, reliable and sustainable infrastructures. This volume will be of interest to postgraduate students, academics, researchers, and consultants working in the field of civil and transport infrastructure.

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A Study on Suction Properties, Subgrade Modulus and Compressibility of Marine Soil Subgrade for Flexible Pavements

Ram Wanare, Pritam Sinha & Kannan K. R. Iyer

Conference paper | First Online: 31 August 2021

988 Accesses

Part of the <u>Lecture Notes in Civil Engineering</u> book series (LNCE, volume 164)

Abstract

One of the important parameters that governs suitability of soil subgrade for flexible pavements is subgrade modulus and it depends on many factors such as type of loading and its magnitude, soil type and its engineering properties, flexural stiffness of the pavement structure and relative stiffness of the soil subgrade and pavement structure. The strength and stiffness of soil affects its relative stiffness with pavement structure and depends on various factors such as water content, soil type, degree of compaction and soil suction. For most soils, soil suction is mainly Log in



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Lecture Notes in Civil Engineering

Geohazard Mitigation

Recent Advances in Early Warning Systems for Landslide Forecasting

Ram Wanare

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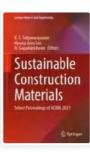
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About this book

This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction (VCDRR 2021). It emphasizes on the role of civil engineering for a disaster resilient society. It presents latest research in geohazards and their mitigation. Various topics covered in this book are land use, ground response, liquefaction, and disaster mitigation techniques. This book is a comprehensive volume on disaster risk reduction (DRR) and its management for a sustainable built environment. This book will be useful for the students, researchers, policy makers and professionals working in the area of civil engineering, especially disaster management.

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Ram Wanare, Kannan K. R. Iyer 🗠 & Prathyusha Jayanthi

Conference paper | First Online: 27 November 2021

625 Accesses 3 Citations

Part of the <u>Lecture Notes in Civil Engineering</u> book series (LNCE,volume 192)

Abstract

Slope failures and landslides pose serious geotechnical challenges, as large fatalities and economic losses may occur due to such natural disasters. Landslides happen mainly due to excessive rainfall and large magnitude earthquake. In recent years, efforts have been made toward developing various early warning systems for landslide forecasting, which would help to minimize fatalities, by efficient evacuation, prior to the landslide event. The different methods/approaches for landslide forecasting include application of early warning sensors, acoustic emission-based slope alarm, displacement sensors, volumetric moisture content



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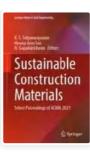
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About this book

This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction (VCDRR 2021). It emphasizes on the role of civil engineering for a disaster resilient society. It presents latest research in geohazards and their mitigation. Various topics covered in this book are land use, ground response, liquefaction, and disaster mitigation techniques. This book is a comprehensive volume on disaster risk reduction (DRR) and its management for a sustainable built environment. This book will be useful for the students, researchers, policy makers and professionals working in the area of civil engineering, especially disaster management.

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Conference paper | First Online: 27 November 2021

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The scarcity of natural materials such as good native soil, river sand, and aggregates has shifted the focus in recent years toward sustainable solutions in geotechnical engineering. Industrial ash such as fly ash, pond ash, and incinerated ash from other sources are being utilized either as a stabilizing additive or as a replacement of natural geomaterials for filling applications in embankment, bridge abutment, structural fill below foundations, and pavement sublayers. The stabilizing agents such as microsilica,



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Analysis Of Different Approach Used In Particle Swarm Optimization Variants: A Comparative Study

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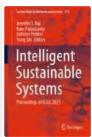
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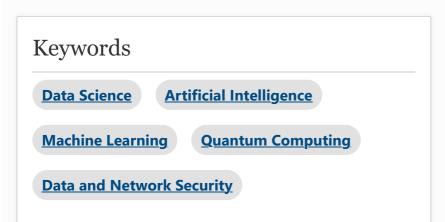
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About this book
This book presents the best-selected papers presented at the International Conference on Data Science, Computation and Security (IDSCS-2021), organized by the Department of Data Science, CHRIST (Deemed to be University), Pune Lavasa Campus, India, during April 16– 17, 2021. The proceeding is targeting the current research works in the areas of data science, data security, data analytics, artificial intelligence, machine learning, computer vision, algorithms design, computer networking, data mining, big data, text mining, knowledge representation, soft computing, and cloud computing.

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For every type of system transformation data/information plays a very important role. Everywhere artificial intelligence system is being deployed to reduce human efforts, as well as to improve system performance, accuracy, effectiveness and throughput of system. These artificial intelligent system works only on information feed to the system as an input. Swarm Intelligence is a most effective way of transmitting information between two communication parties. Most of the Artificial Intelligence system is based on Swarm Intelligence



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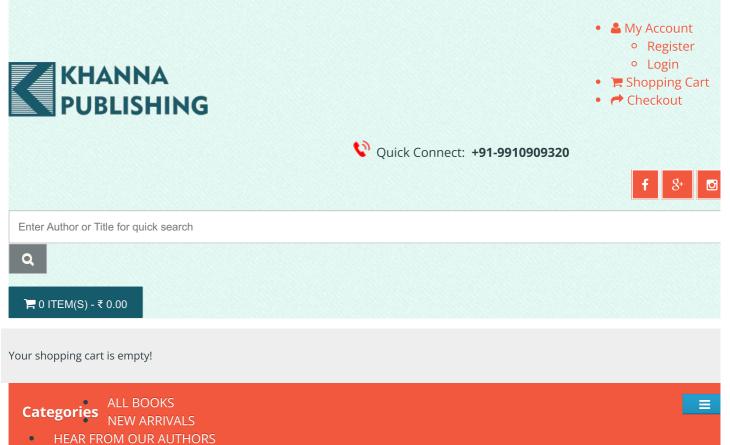
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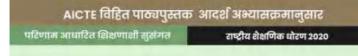
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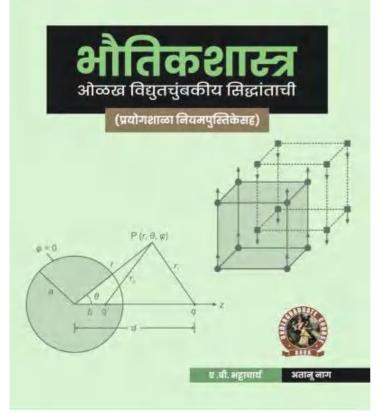
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• A. B. Bhattacharya

Prof. A. B. Bhattacharya, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and scienc students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed

"Glory of India Gold Medal" for remarkable contributions to India's national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers.

• A. Nag

Conditions

Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journa papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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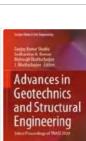
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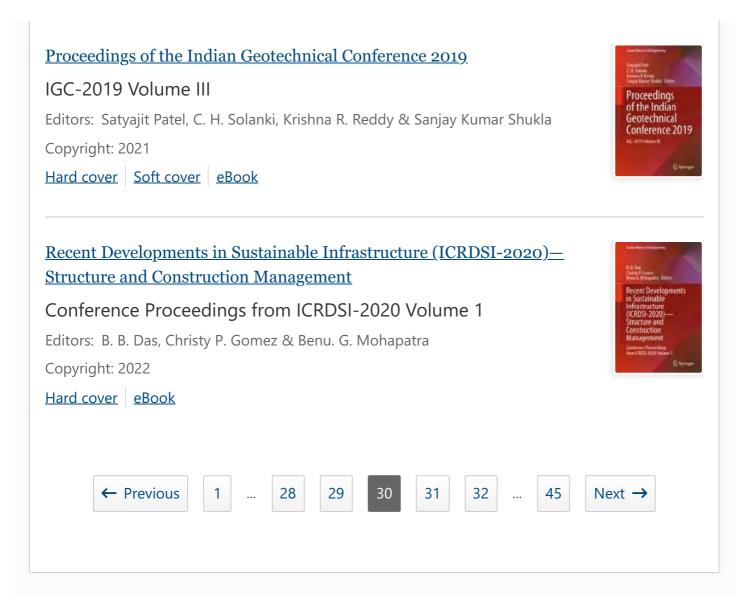


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About this book

This book comprises select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) Characterization of Geomaterials and Physical Modelling; (ii) Foundations and Deep Excavations; (iii) Soil Stabilization and Ground Improvement; (iv) Geoenvironmental Engineering and Waste Material Utilization; (v) Soil Dynamics and Earthquake Geotechnical Engineering; (vi) Earth Retaining Structures, Dams and Embankments; (vii) Slope Stability and Landslides; (viii) Transportation Geotechnics; (ix) Geosynthetics Applications; (x) Computational, Analytical and Numerical Modelling; (xi) Rock Engineering, Tunnelling and Underground Constructions; (xii) Forensic Geotechnical Engineering and Case Studies; and (xiii) Others Topics: Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Field Investigations, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering, Geotechnical Education, Codes and Standards, and other relevant topics. The contents of

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The understanding of soil–foundation–structure interaction is important for design of flexible raft foundation. For flexible foundation, the behaviour would be influenced by the loading as well as the foundation and soil parameters. The present study attempts to understand the influence of the parameters such as meshing size, loading intensity, magnitude of modulus of subgrade reaction (K_s) and raft thickness on base pressure and settlement of flexible raft foundation using STAAD Pro. A symmetrical multi-storeyed building with 25 columns along with



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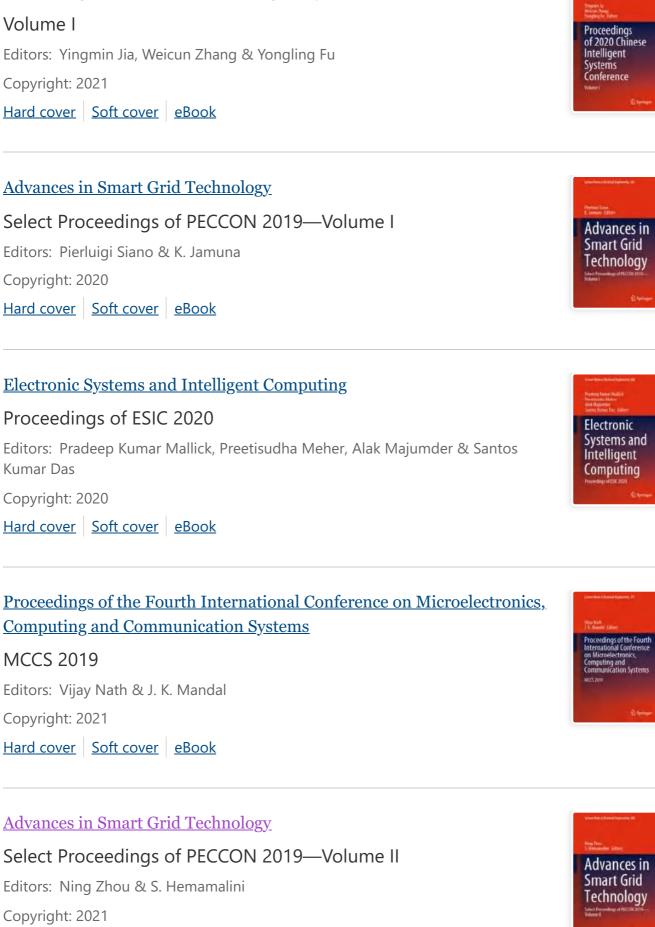
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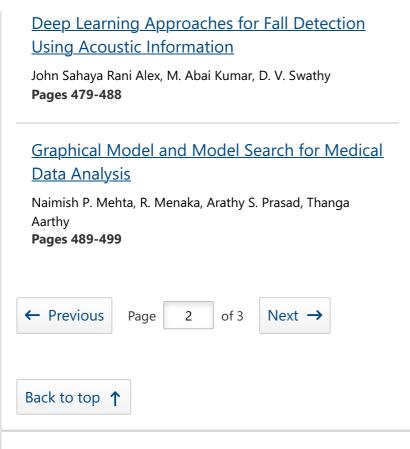
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About this book

This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume covers several important topics such as optimal data selection and error-free data acquiring via artificial intelligence and machine learning techniques, information and communication technologies for monitoring and control of smart grid components, and data security in smart grid network. In addition, it also focuses on economics of renewable electricity generation, policies for distributed generation, smart eco-structures and systems. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

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Review of Particulate Matter Filters

<u>Nerella Venkata Sai Charan</u>, <u>S. Krithiga</u> [⊡] & <u>Partha Sarathi</u> Subudhi

Conference paper | First Online: 19 September 2020

454 Accesses 1 Citations

Part of the <u>Lecture Notes in Electrical Engineering</u> book series (LNEE,volume 688)

Abstract

Increase in particulate matter (PM) in air causes a biggest threat in the twentieth century. In order to filtrate PM from air, filters are employed. These filters are called as particulate matter filter (PMF). These filters separate the PM from the polluted air. The processes followed by PMF to separate the PM from the polluted air are filtration and adsorption. Different filters are developed for this purpose. This chapter presents a critical review of different types of particulate filters. Porous- and fibrous-type filters are discussed in this chapter. This chapter explains the fabrication process of different PMF along with its advantages and



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Optimization of Thickness of Hollow Punch – Die for Proposed Solar Assisted Leaf Plate and Cup Making Machine

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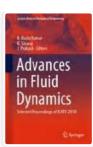
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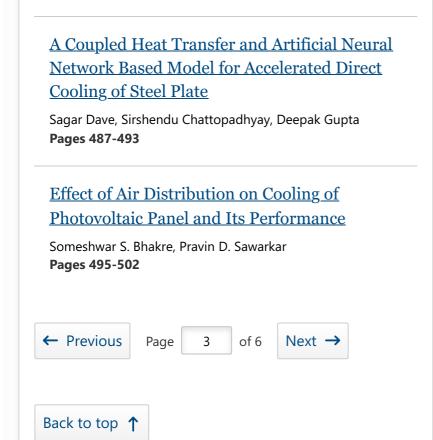
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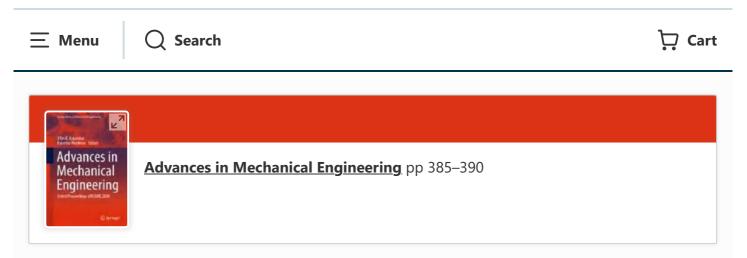
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This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering.

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Optimization of Thickness of Hollow Punch–Die for Proposed Solar-Assisted Leaf Plate and Cup Making Machine

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Conference paper | First Online: 30 June 2020

1374 Accesses

Part of the <u>Lecture Notes in Mechanical Engineering</u> book series (LNME)

Abstract

Leaf plates are traditionally made by hand in Indian villages. These are commonly used for serving food at family, religious and social functions. The laborious craft can now be converted into machine operation to make these containers in elegant shape and sizes and to make the plates much stronger than the normal one by the conventional method of making plates. The punch–die assembly of the traditional machine consists of an electric heater where the effective heating temperature is maintained from 110 to 120 °C. Alternatively, this temperature can also be achieved



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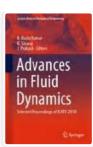
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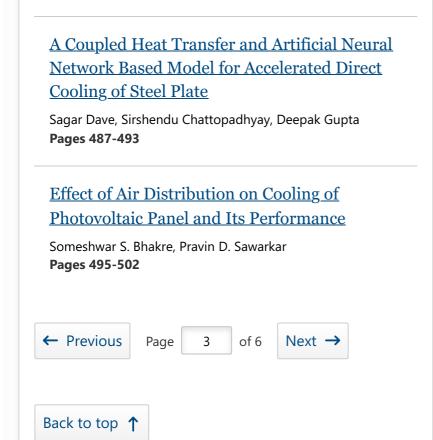
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Sushil T. Ambadkar 🗠 & Deepak V. Bhope

Conference paper | First Online: 30 June 2020

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Part of the <u>Lecture Notes in Mechanical Engineering</u> book series (LNME)

Abstract

Filler metal addition has been verified as an effective way to refine the mechanical behaviour of cold rolled mild steel in resistance spot welding. Negligible quantity of filler metal if added to the spot weld is found to improve mechanical properties of spot weldments, if no variation in the composition of base metal and filler metal is allowed. Looking at practical applications, the sensitivity of the resistance spot welding process with filler metal to variation in annealing treatment was experimentally investigated.



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A Study on the Effect of GTAW Input Current on Surface Distortion of Thin CRNO Electrical Steel Sheets

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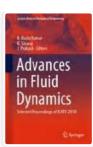
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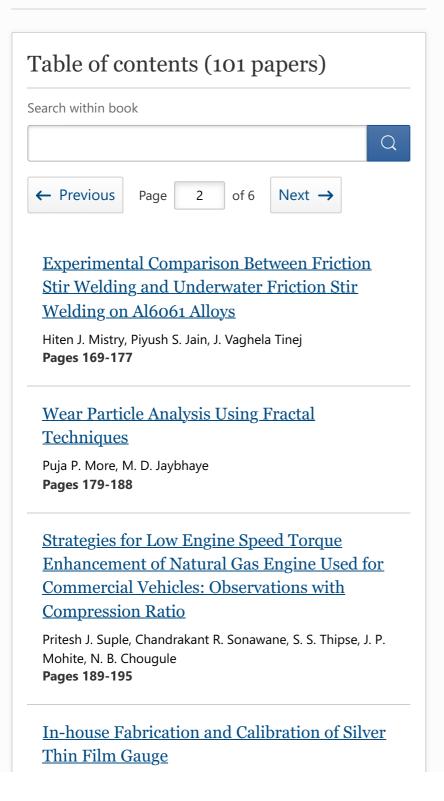
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Abstract

The thin sheets of CRNO electrical steel are widely used in motors of electric vehicles (EV) and several domestic appliances. The thin sheets of thickness 0.5 mm are stacked and welded across the edges to form the stator core for use in the electric motors. The present work aims to study the distortion variations observed on the CRNO thin sheets under different range of welding current (30–110 A). The stacks comprising of thin sheets of CRNO with total thickness of 50 mm (100 sheets × 0.5 mm) post-welding are observed for evaluating the distortion on the surface of stacks. The



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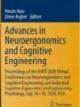
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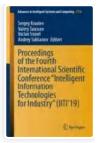
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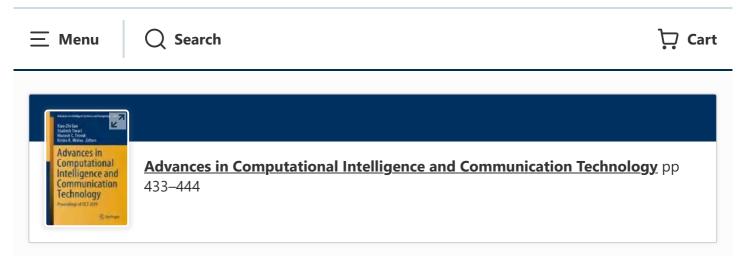
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Satyavir Singh, Mohammad Abid Bazaz & Shahkar Ahmad Nahvi

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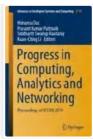
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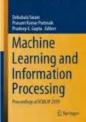
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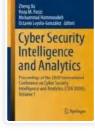
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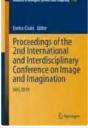
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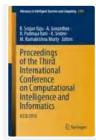
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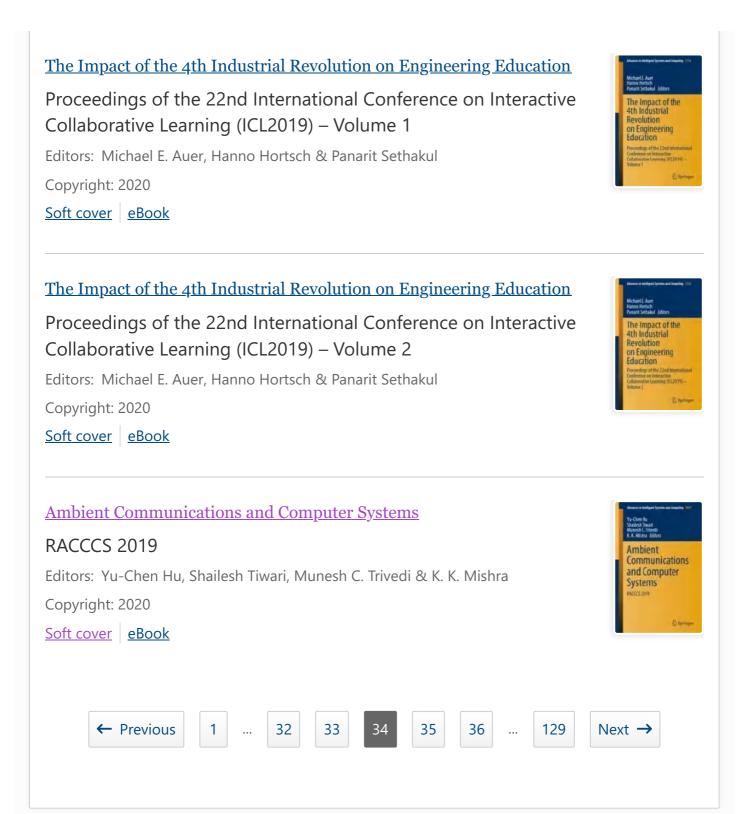
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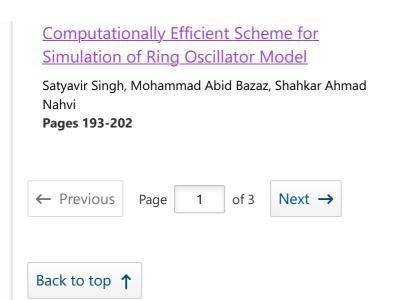
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This book features high-quality, peer-reviewed papers from the International Conference on Recent Advancement in Computer, Communication and Computational Sciences (RACCCS 2019), held at Aryabhatta College of Engineering & Research Center, Ajmer, India, on August 16-17, 2019. Presenting the latest developments and technical solutions in computational sciences, it covers a variety of topics, such as intelligent hardware and software design, advanced communications, intelligent computing technologies, advanced software engineering, the web and informatics, and intelligent image processing. As such it helps those in the computer industry and academia to use the advances in next-generation communication and computational technology to shape real-world applications.

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<u>Satyavir Singh</u>, <u>Mohammad Abid Bazaz</u> & <u>Shahkar Ahmad</u> <u>Nahvi</u>

Conference paper | First Online: 14 March 2020

492 Accesses

Part of the <u>Advances in Intelligent Systems and Computing</u> book series (AISC,volume 1097)

Abstract

This work addresses the computational difficulties involved with the simulation of the nonlinear ring oscillator system in the offline and online phase. Conventional POD has offline basis extraction burden along with online computation in nonlinear systems. The computation of the nonlinear term can be improved with a discrete empirical interpolation method (DEIM). However, the issue of offline computation in POD still persists. This work proposed approximate snapshot ensemble generation for basis extraction in nonlinear model order reduction to



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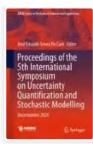
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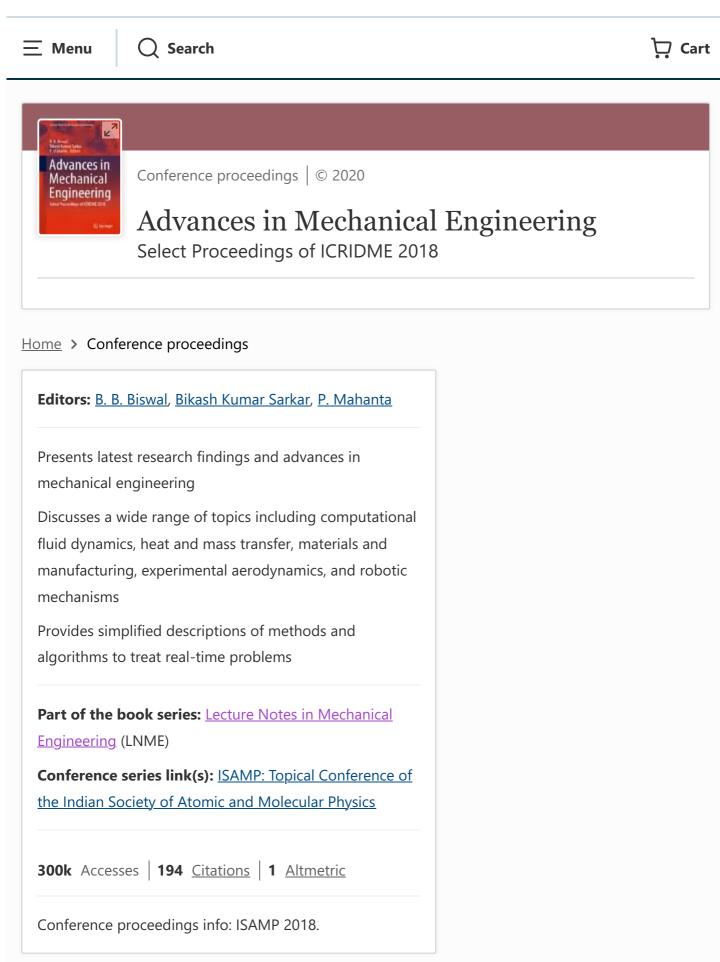
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Effect of Size and Cascading of Receivers on the Performance of a Solar Collector System

<u>Suraj Bhardwaj</u> ^{└─} & <u>Santosh Bopche</u>

Conference paper | First Online: 17 January 2020

2099 Accesses

Part of the <u>Lecture Notes in Mechanical Engineering</u> book series (LNME)

Abstract

The effect of cascading of parabolic dish collector and receiver on the receiver collection efficiency has been presented in the present paper. The parabolic dish collector is modified in such a way that it focuses incident radiation at two focus points, in line with the vertex of the parabolic dish. The receivers are positioned at these two focii locations to absorb the concentrated heat. The outcomes in terms of receiver collector efficiency are compared with the single collector-receiver system. The gradual heating of working fluid while flowing through the combined



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SR. NO - 20

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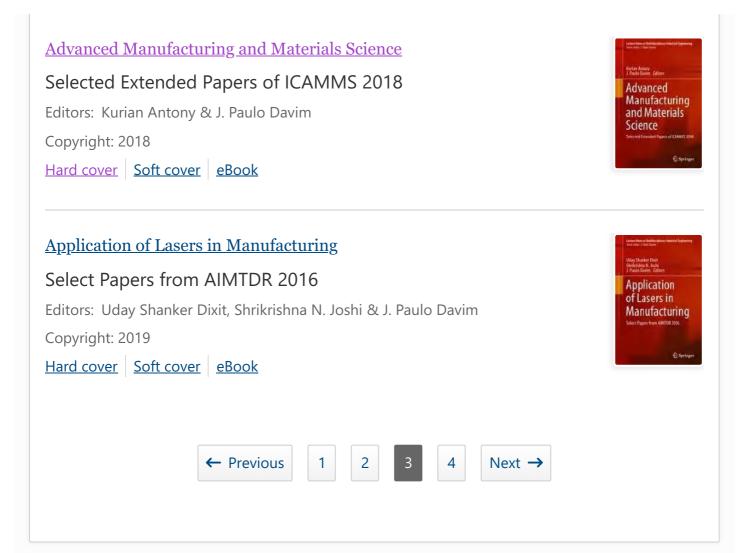


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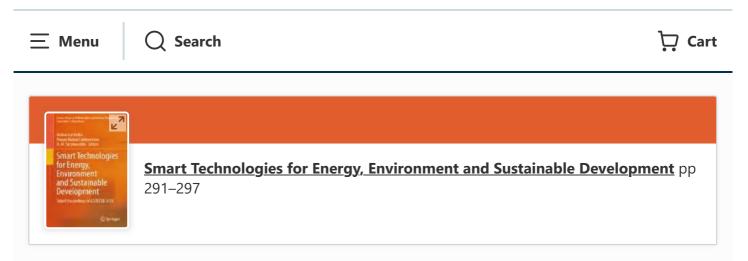


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This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.

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Removal of Hexavalent Chromium from Aqueous Solution by Alumina-Supported Copper Aluminum Oxide Nanoparticles

Vivek Bhusari 🗠, Amit Bansiwal & Sadhana Rayalu

Conference paper | First Online: 03 July 2019

733 Accesses | 1 <u>Citations</u>

Part of the <u>Lecture Notes on Multidisciplinary Industrial</u> <u>Engineering</u> book series (LNMUINEN)

Abstract

Chromium is a toxic metal pollutant found in effluent of electroplating and metal finishing industries. Copper aluminum oxide nanoparticles supported on alumina were synthesized and evaluated for the removal of Cr(VI) from water. The CANP-A was characterized by Xray powder diffraction, scanning electron microscopy, and transmission electron microscopy. The adsorbent was evaluated for the removal of chromium (VI) from water. The effect of adsorption time was studied. The experimental data were fitted to Langmuir and



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BOOK CHAPTER

SR. NO - 21

Energy Generation and Efficiency Technologies for Green Residential Buildings

Solar Energy Generation Technology for Small Homes

Santosh Bopche

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Energy Generation and Efficiency Technologies for Green Residential Buildings



Editors: David S-K Ting ¹; Rupp Carriveau ² **View affiliations** Affiliations: 1: Mechanical, Automotive and Materials Engineering, University of Windsor, Windsor, ON, Canada 2: Turbulence and Energy Laboratory, University of Windsor, Windsor, ON, Canada Publication Year: 2019

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Description

Residential buildings consume about a quarter of all energy (including electrical and thermal) in industrialized countries and emit around 20% of the carbon emissions there. Older and outdated heating and cooling technology causes high energy demand and, depending on building type, secondary causes can include ventilation and lighting. Technology is available to mitigate high energy consumption, and to enable the use of renewable or environmentally friendly energy, partly generated locally. This book, written by international experts from academia as well as industry, compiles and describes several key technologies available to reduce a residential building's energy consumption. Key themes include local energy generation, such as the use of sunlight to reduce heating needs, and photovoltaics for electricity. Case studies are included in most chapters to provide real-world context for the technologies described.

Inspec keywords: buildings (structures); renewable energy sources; sunlight; passive solar buildings; phase change materials; building integrated photovoltaics; sustainable development; energy conservation; secondary cells

Other keywords: solar radiation analysis; PV solar systems; photovoltaic arrays; efficiency; energy generation; secondary battery; solar energy generation; clean energy generation; nature-based building solutions; green residential buildings; phase change materials

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2 Clean energy generation in residential green buildings

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Due to the recent investigations, buildings consume a considerable amount of the electricity, drinking water, global final energy use and as a result are responsible for one third of the global carbon emissions. Therefore, building sector has a key role to reach global energy targets. In this sight, this study draws attention to the sustainable energy performances of green buildings (GBs) and aims towards the GBs concept which includes renewable sources in the construction and lifetime utilization.

• 3 Performance monitoring of a 60 kW photovoltaic array in Alberta

p. 45 –59 (15)

Solar photovoltaic (PV) systems are relatively new and there is not a large amount of performance data available for them with which to compare design calculations. This comparison is also necessary to provide confidence that newer systems will perform as predicted. This chapter describes a year's monitoring of a 60 kW PV system near Strathmore, Alberta, latitude 51°, installed in November 2016. The modules were flush mounted to a roof with 8° of pitch. There was no shading and the installation was near an Alberta Department of Agriculture meteorological station which provided the weather data. The measured capacity factor was 13.8%, and there was a loss of

11%-12% of the yearly production to snow. We demonstrate that satellite-based production forecasts of the array irradiance underestimated the solar resource at this location. The predictions of actual energy production from two different modeling tools showed that the more detailed System Advisor Model software was more accurate than RETScreen.

 4 Environmental and economic evaluation of PV solar system for remote communities using building information modeling: A case study

p. 61 –74 (14)

Photovoltaic (PV) solar energy has been a popular renewable electricity generation source at the building and community levels. With the recent rise in the demand, residential level PV installations have been under scrutiny primarily to improve their efficiency. Electricity generation potential of a roof-mounted PV system depends on the local PV potential, building orientation, shading effect, roof angle, and roof size. Moreover, the economic viability of the PV system needs to be justified before being implemented on site. This research investigates the optimal PV solar energy potential (PvSEP) of a standalone rooftop PV system using building information modeling (BIM). Two building shapes (square and rectangular), three roof types (hip, gable, and shed), eight orientations (E, W, S, N, NE, NW, SE, and SW), and nine roof slopes (starting from 10° to 50° with an interval of 5°) were analyzed at two geographical locations in British Columbia (i.e., Kelowna and Fort St. Johns). The BIM was created in the Autodesk Revit platform, and 432 simulations were performed for each location using the Revit Architecture extension Insight. Results indicated that even though location, roof angle, orientation, and roof types are significant factors for PvSEP, building shape do not have a significant impact. This has been consistent with the published literature. The PV system with the maximum PvSEP results in the minimum payback time and greenhouse gas (GHG) emissions. This research aims to aid PV system installation decision-making by using state-of-the-art technology during the pre-construction stage.

5 Solar energy generation technology for small homes

p. 75-114 (40)

This chapter presents concentrating collector-based technologies for capturing solar energy that may be utilized to produce power for energizing small homes (remotely located). The various types of existing solar thermal concentrating collectors, energy receivers of various shapes, sizes, and materials for selective surfaces, thermal energy storage systems, solar-powered heat engines, e.g., Stirling engine, solar-Rankine heat engine, solar-Brayton engine, are also presented thereof. The renewable hybrid technologies, e.g., solar power integration with biogas, geothermal and wind energy along with its advantages as well as limitations are discussed. It concludes with the challenges need to be faced in remote regions.

6 Numerical analysis of phase change materials for use in energy-efficient buildings

p. 115-148 (34)

Due to the efficient performance in energy storage density, solar thermal energy storage (TES, especially latent type) applications are drawing more attention in the research field of solar energy. Among all of the types of solar thermal storage technologies, the latent heat storage system using phase change materials is the most efficient way of storing thermal energy. It has some dominant factors such as high density energy storage and isothermal operations, i.e., very small temperature range for heat storage and removal. Thus, latent heat storage systems have greater applicability over the other types of TES systems. This chapter initially presents an analysis of a latent-type solar thermal energy storage (TES) system involving some of

the important cases carried out comprising the application of ambient conditions with various geometries and working conditions. The analysis is carried out in MATLAB® and COMSOL[®], which contains transient simulations of latent heat storage functioning with 1D and 2D modeling. It comprises the validation of numerical 1D analysis with corresponding analytical solution, observation of the change in thermophysical properties at the melting point, etc. Further in this study, the phase change material (PCM) is assumed to be incorporated in a brick wall structure, which can improve its thermal performance. A 1D numerical model on COMSOL Multiphysics is developed to analyze the thermal performance of the PCM-filled brick wall unit. The numerical model and the adopted hypotheses are illustrated in detail. The comparison between temperature distributions of a simple brick wall and a brick wall with a PCM layer is presented. The results show that using the numerical tool, it can be observed that the thermal performance of the PCM-filled brick wall is efficient over the simple brick wall without PCM. This concept of the PCM-impregnated building structure is found to be successful in shifting the energy requirement of the equipped building sector from a high peak electricity demand period to an off-peak period.

7 Insulation materials

p. 149 –172 (24)

Insulation is a key component of green building design. A well-insulated home should keep your space warm in the winter and cool in the summer, and this in turn cuts down carbon emissions linked to global climate change. In terms of energy efficiency, investing in high levels of insulation materials for your home is more cost-effective than investing in expensive heating technologies. Insulation materials work by resisting heat flow, measured by an R-value (the higher the R-value, the greater the insulation). R-value depends on the type of insulation, its thickness, and its density. In this sight, this study draws attention to the importance of building insulation materials in green buildings' sustainable energy performance.

8 Latent relationships between construction cost and energy efficiency in multifamily green buildings

p. 173 –190 (18)

Residential buildings have accounted for more than 20% of total energy usage in the United States over the last decade. Reducing household energy consumption has environmental and economic impacts. Building scientists and construction engineers have attempted to obtain accurate energy use prediction; however, few have focused on the relationship between construction cost and energy use. This chapter investigates the associations among detailed construction cost takeoffs and actual energy use in multifamily green buildings. The researchers employ advanced machine-learning analytics to model the correlations between construction costs and energy use data collected from multifamily residential units. The findings identify cost divisions in the construction stage that significantly correlate with energy use in the operational stage. The model allows developers to predict energy consumption based on construction costs and enables them to adjust their investment strategies to amplify the energy efficiency of green building technologies.

9 Secondary battery technologies: a static potential for power

p. 191 –207 (17)

Electrical energy storage (EES) systems provide various benefits of high energy efficiency, high reliability and controllability, low cost and environmental impact, and so on, by storing and retrieving energy on demand. Historically, electrochemical battery storage systems have by far spurred the greatest interest of research, offering

immediate response times, medium-to-long term storage duration and no power-rate limitations. Based on electrochemical oxidation-reduction reversible reactions, batteries can convert chemical energy stored in their active materials directly into electricity and vice versa. In this work, the most important battery technologies are reviewed and compared along with their contribution in global battery market. Lithiumion monopolize in portable electronic devices, whereas lead-acid holds the exclusivity in automotive starting, lighting and ignition (SLI) applications and is considered as the best choice for small-to-medium scale stationary applications of uninterruptible power supply (UPS) and back-up power. In terms of safety and simplicity, both systems are considered viable options for small-scale residential applications, while advanced leadacid and high-temperature batteries are suited in medium-to-large scale applications including commercial and industrial consumers. The most discussed aspects relating to electrochemical storage are the exhaustible material reserves which may cause their cost to increase and battery disposition which locally affects consumers and globally the whole of mankind. However, a key solution exists, namely recycling, and is supported by various processes. Once the impacts from the collection and transportation of all types of spent batteries are minimized, the field of electrochemical EES integration will be expanded more and more, resulting in a sustainable development.

• 10 A critical review with solar radiation analysis model on inclined and horizontal surfaces

p. 209 –232 (24)

Utilization of renewable energy resources is gradually increasing in developing countries as well as the developed ones. Although the use of these resources is becoming increasingly important to meet energy demands, efficient use of limited resources requires planning and in-depth analysis beforehand. Correspondingly, in recent years, countries have started to work on increasing the share of renewable energy among other energy-production methods to ensure energy independence. In this study, in order to design PV system for maximum efficiency under certain climatic conditions, a comparative analysis of solar energy potential for two cities in certain climatic show that potential for photovoltaic systems in both cities correspond to expected levels. The study aims to determine the most efficient solar panel by utilizing the real solar radiation values obtained for the photovoltaic system design.

11 Nature-based building solutions: circular utilization of photosynthetic organisms

p. 233 –258 (26)

This chapter proposes a circular agricultural system for integration of naturebased solutions, mainly photosynthetic elements into buildings and cities and evaluates its potential for utilization. The proposed system consists of the integration of three main nature-based solutions into a building: green roofs that filter water, photobioreactors (PBRs) that cultivate microalgae inside and aquaponics that grow both fish and vegetables. The system is powered by solar energy and its main purpose is to grow food in the urban context. Although there have been some studies about the energy and environmental effects of integrating nature-based systems in buildings, they are usually utilized for different purposes, yet the present chapter proposes and assesses one of the first examples, where three systems are combined together.

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Abstract

This chapter presents concentrating collector-based technologies for capturing solar energy that may be utilized to produce power for energizing small homes (remotely located). The various types of existing solar thermal concentrating collectors, energy receivers of various shapes, sizes, and materials for selective surfaces, thermal energy storage systems, solar-powered heat engines, e.g., Stirling engine, solar-Rankine heat engine, solar-Brayton engine, are also presented thereof. The renewable hybrid technologies, e.g., solar power integration with biogas, geothermal and wind energy along with its advantages as well as limitations are discussed. It concludes with the challenges need to be faced in remote regions. Chapter Contents:

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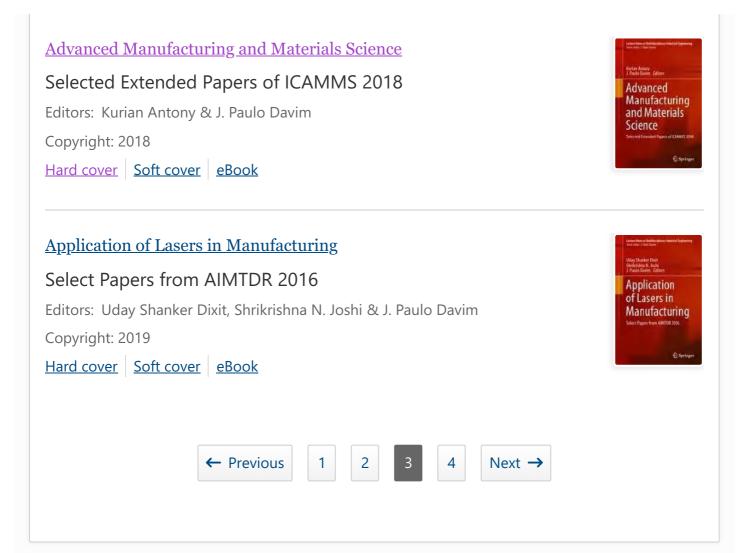


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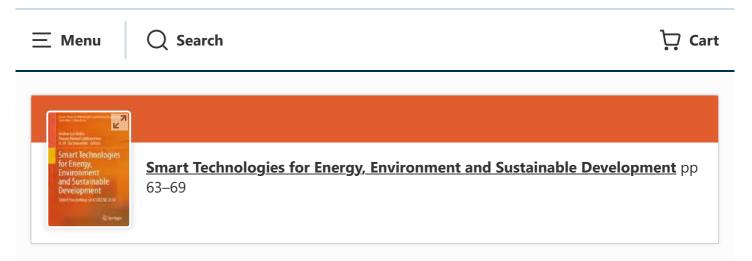


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Abstract

This paper focused on stability studies when many generators are integrated with induction generator (IG) and doubly fed induction generator (DFIG). As power system is a complex phenomena and reactive power compensation is a global issue, it needs to be addressed specially during transient conditions. The FACTS devices are best suited for compensation of reactive power. The focus is on multimachine system which is considered for analysis purpose. During transients, the performance of SVC and STATCOM was



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BOOK CHAPTER

SR. NO - 24

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Bidirectional voltage source converter for microgrid

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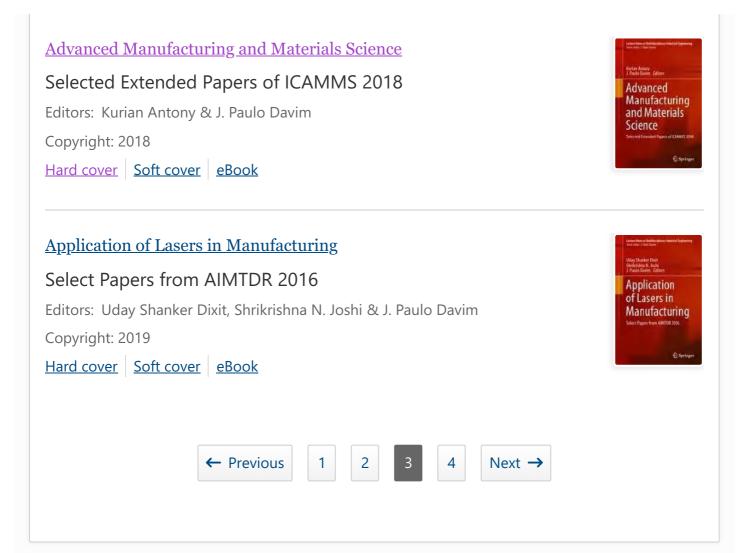


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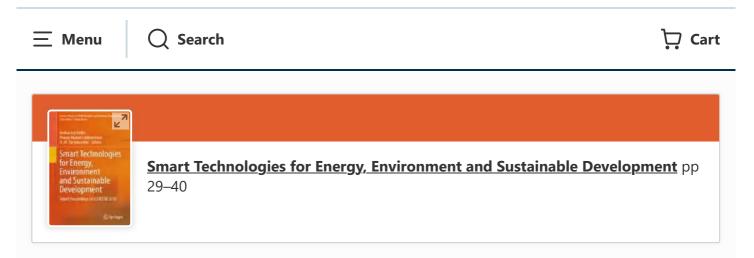


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This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.



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Abstract

Microgrid is a small-scale power supply network associated with Distributed Energy Resources. Nowadays DC microgrid has become a new subject of research due to addition of renewable energy sources and electric vehicles for small buildings and residential. In this paper, we have taken review of previous published work and based on that we proposed solarbased bidirectional VSC-based Battery Storage System for microgrid applications using flyback converters. To done so, we have make DC bus which takes DC voltage from solar panel stored in battery and given to dc load



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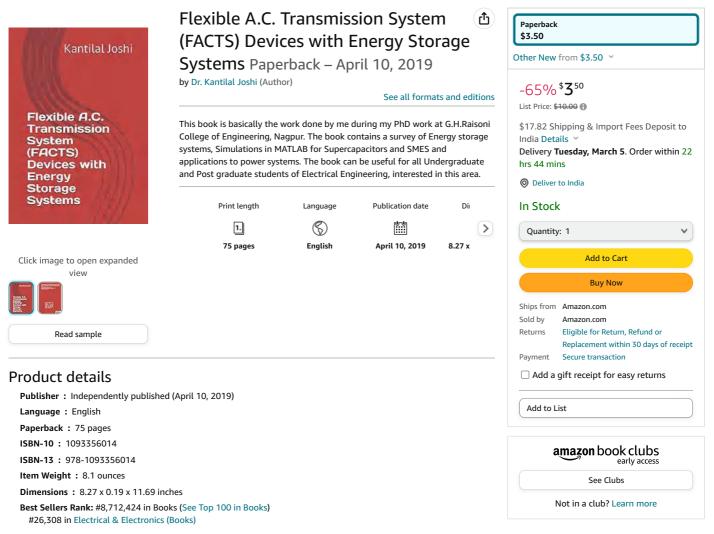
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Lecture Notes on Multidisciplinary Industrial Engineering

Advances in Additive Manufacturing and Joining: Lecture Notes on Multidisciplinary Industrial Engineering

A Study on Hardness of CRNO Electrical Sheets for Edge Joining Through TIG Welding

Bhushan Y. Dharmik

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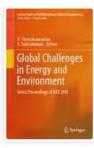
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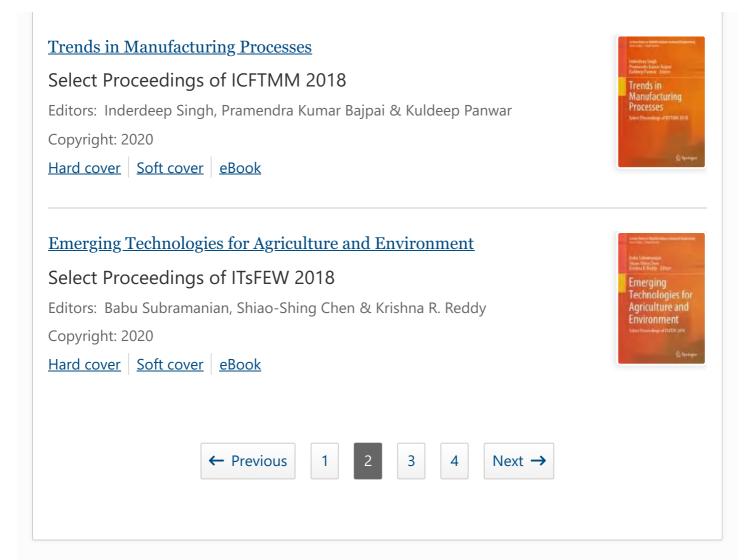
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About this book

This volume presents research papers on additive manufacturing (popularly known as 3D printing) and joining which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The contents of this volume present the latest technological advancements for improving the efficiency, accuracy and speed of the additive manufacturing process and in fusion and solid-state welding technologies, with a variety of technologies, including fused deposition modelling, poly jet 3D printing, weld deposition based technology, selective laser melting and important welding technologies being covered. This volume will be of interest to academicians, researchers, and practicing engineers alike.

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Abstract

Tungsten inert gas (TIG) welding is gaining popularity on welding of cold-rolled non-oriented (CRNO) electrical steel. The process deals with welding of stacks of thin sheets generally used as cores of electric vehicles and other electrical systems. Welding of thin sheets is affected by large amount of heat input. An investigation on the hardness of material post-welding is carried out. The hardness of the base metal, heataffected zone, and fusion zone shows a different trend for an input current. The observed current setting at 60 A generated a minimum hardness on welded sheets



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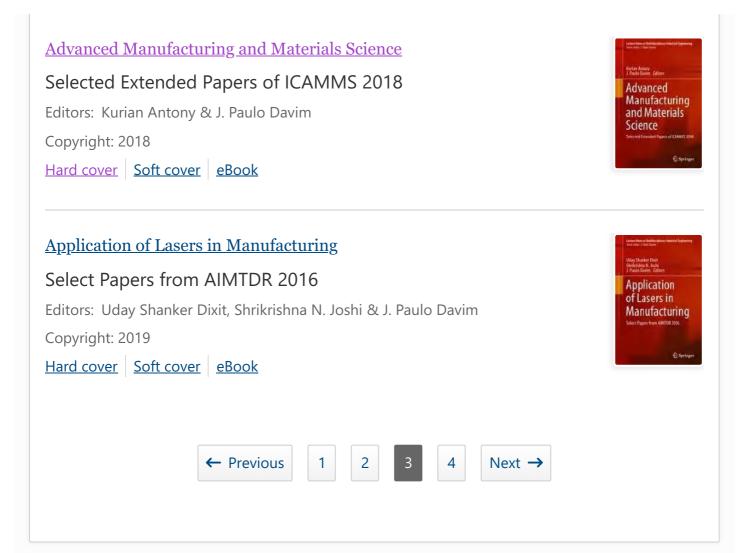


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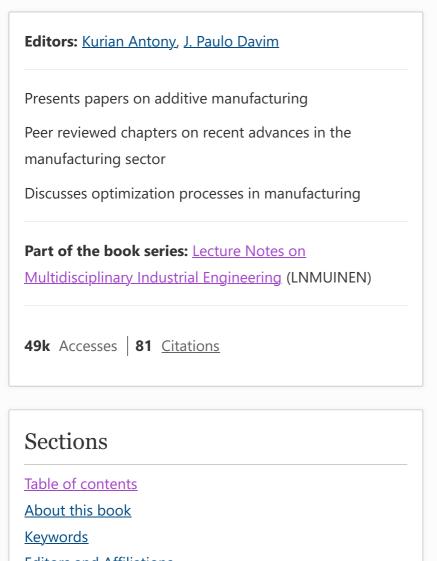
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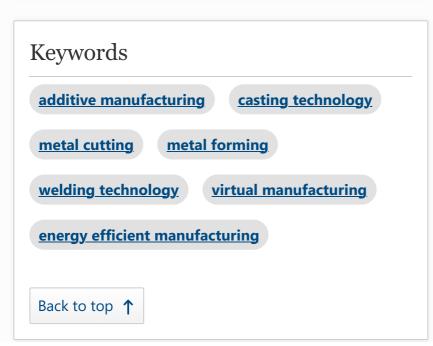
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About this book

This book presents selected papers from the international conference on advanced manufacturing and materials sciences (**ICAMMS 2018**). The papers reflet recent advances in manufacturing sector focusing on process optimization and give emphasis to testing and evaluation of new materials with potential use in industrial applications.

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Finite Element Analysis of Rail Vehicle Suspension Spring for Its Fatigue Life Improvement

M. A. Kumbhalkar ^(C), D. V. Bhope & A. V. Vanalkar

Conference paper | First Online: 01 June 2018

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Abstract

Suspension spring is the imperative segment of moving body to assimilate shock and vibration. This paper discusses the finite element analysis of helical suspension spring of rail vehicle to discover its fatigue life. Fatigue analysis has been carried out using finite element method to explore the impact of dynamic loading on the failure of suspension spring. This analysis revealed that the suspension spring has finite life and due to which spring failure occurs earlier. To avoid these failures some modifications are suggested in the suspension system and one of them is



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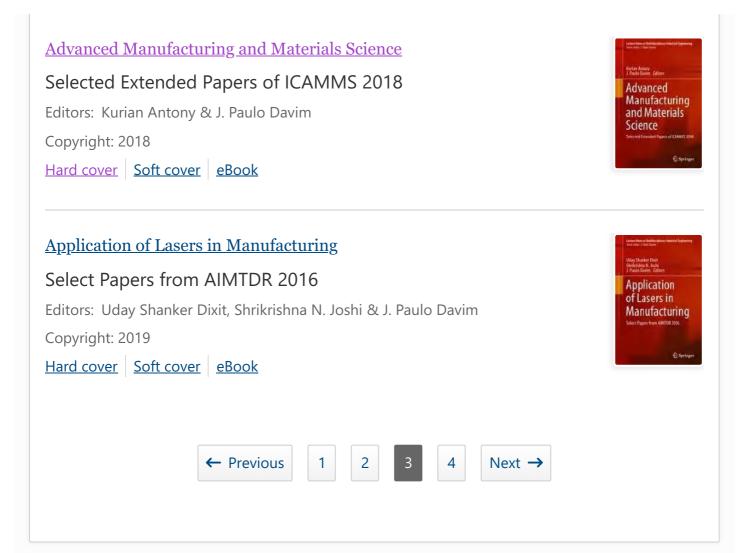


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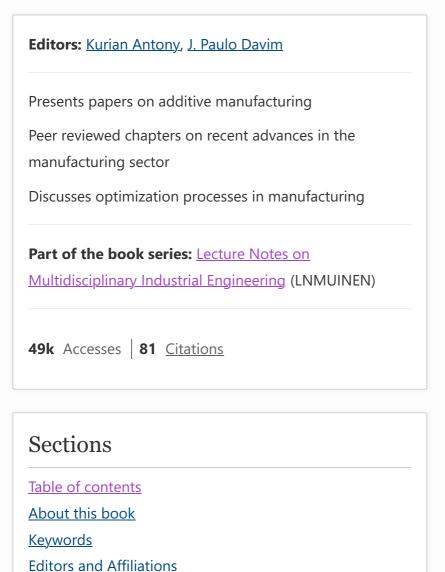
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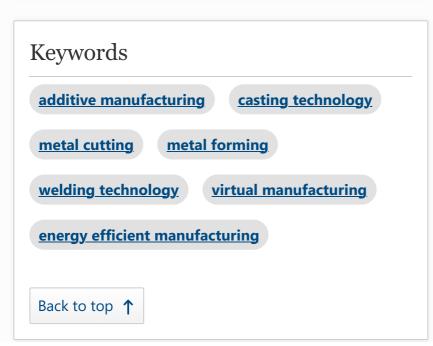
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This book presents selected papers from the international conference on advanced manufacturing and materials sciences (**ICAMMS 2018**). The papers reflet recent advances in manufacturing sector focusing on process optimization and give emphasis to testing and evaluation of new materials with potential use in industrial applications.

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Resistance Spot Welding of Cold Rolled Mild Steel with Filler Metal

Sushil T. Ambadkar 🗠 & Deepak V. Bhope

Conference paper | First Online: 01 June 2018

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Abstract

Filler metal addition has been investigated as an effective way to enhance mechanical properties of cold rolled mild steel in resistance spot welding. In the present study, filler metal from 30 to 80 mg was added to the spot weld to study its effect on mechanical behaviour of spot weldments. The composition of the filler metal added was same as that of base metal. Effects of the filler metal and its quantity on failure mode was discussed on 1.5- mm-thick CRM steel for the first time. Concerning the practical application, sensitivity of the filler metal addition to spot weldments to variation in welding current and