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Green Manufacturing Processes and Systems

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Green Manufacturing Processes And Systems

Gerardo Ruiz Mercado,Heriberto Cabezas

Green Manufacturing Processes And Systems:

Sustainable Manufacturing Kapil Gupta,Konstantinos Salonitis,2021-03-30 Sustainable Manufacturing examines the overall sustainability of a wide range of manufacturing processes and industrial systems With chapters addressing machining casting additive and gear manufacturing processes and hot topics such as remanufacturing life cycle engineering and recycling this book is the most complete guide to this topic available Drawing on experts in both academia and industry coverage addresses theoretical developments and practical improvements from research and innovations This unique book will advise readers on how to achieve sustainable manufacturing processes and systems and further the clean and safe environment This handbook is a part of the four volume set entitled Handbooks in Advanced Manufacturing The other three address Advanced Machining and Finishing Advanced Welding and Deforming and Additive Manufacturing Provides basic to advanced level information on various aspects of sustainable manufacturing Presents the strategies and techniques to achieve sustainability in numerous areas of manufacturing and industrial engineering such as environmentally benign machining sustainable additive manufacturing remanufacturing and recycling sustainable supply chain and life cycle engineering Combines contributions from experts in academia and industry with the latest research and case studies Explains how to attain a clean green and safe environment via sustainable manufacturing Presents recent developments and suggests future research directions Green Manufacturing Processes and Systems Paulo Davim J,2012-10-30 This book provides the recent advances on green manufacturing processes and systems for modern industry Chapter 1 provides information on sustainable manufacturing through environmentally friendly machining Chapter 2 is dedicated to environmentally friendly machining vegetable based cutting fluids Chapter 3 describes environmental friendly joining of tubes Chapter 4 contains information on concepts methods and strategies for zero waste in manufacturing Finally chapter 5 is dedicated to the application of hybrid MCDM approach for selecting the best tyre recycling process This book serves as a research book for students at final undergraduate engineering course or at postgraduate level It is a reference for professionals in industries related to manufacturing and new green jobs green products renewable energy green services and environmental conservation **Energy Efficiency of Manufacturing Processes and Systems** Konstantinos Salonitis,2020-11-09 This Special Issue addresses the important issue of the energy efficiency of both manufacturing processes and systems Manufacturing is responsible for one third of global energy consumption and CO2 emissions Thus improving the energy efficiency of production has been the focus of research in recent years Energy efficiency has begun to be considered as one of the key decision making attributes for manufacturing This book includes recent studies on methods for the measurement of energy efficiency tools and techniques for the analysis and development of improvements with regards to energy consumption modeling and simulation of energy efficiency and the integration of green and lean manufacturing This book presents a breadth of relevant information material and knowledge to support research policy

making practices and experience transferability to address the issues of energy efficiency *Recent Advances in Manufacturing Processes and Systems* Harshit K. Dave,Uday Shanker Dixit,Dumitru Nedelcu,2022-03-03 This book presents select proceedings of 2nd International Conference on Recent Advances in Manufacturing RAM 2021 The book provides insights into the current research trends and development in manufacturing processes The topics covered include conventional and nonconventional manufacturing processes micro and nano manufacturing processes chemical and biochemical manufacturing additive manufacturing smart manufacturing and sustainable and energy efficient manufacturing The contributions presented here are intended to stimulate new research directions in the manufacturing domain This book will be useful for the beginners researchers and professionals working in the area of industrial and production engineering and allied fields *Advances in Manufacturing Processes, Intelligent Methods and Systems in Production Engineering* Andre Batako,Anna Burduk,Kanisius Karyono,Xun Chen,Ryszard Wyczółkowski,2022-04-19 This book forms an excellent basis for the development of intelligent manufacturing system for Industry 4 0 digital and distributed manufacturing and factories for future This book of new developments and advancement in intelligent control and optimization system for production engineering serves as a good companion to scholars manufacturing companies and RTO to improve the efficiency of production systems Optimization Methods in Manufacturing Processes Anand J. Kulkarni,2025-08-05 This book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content Questions and related keywords were prepared for the machine to query discover collate and structure by Artificial Intelligence AI clustering The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary for example climate planetary and evolution sciences Springer Nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful The automatically generated literature summaries in this book are intended as a springboard to further discoverability They are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI based author services that allow human machine interaction to generate readable usable collated research content *Sustainable Manufacturing* J. Paulo Davim,2013-03-04 According to the NACFAM National Council for Advanced Manufacturing USA Sustainable Manufacturing is defined as the creation of manufactured products that use processes that are non polluting conserve energy and natural resources and are economically sound and safe for employees communities and consumers The book covers

Sustainable Manufacturing techniques such as materials and manufacturing for renewable energies clean manufacturing technology ecological manufacturing energy efficient manufacturing remanufacturing recycling of materials environmentally conscious design and manufacturing processes sustainable advanced manufacturing systems manufacturability in sustainable product design education and training for sustainable manufacturing Proceedings of the Thirteenth International Conference on Management Science and Engineering Management Jiuping Xu,Syed Ejaz Ahmed,Fang Lee Cooke,Gheorghe Duca,2019-06-19 This book gathers the proceedings of the 13th International Conference on Management Science and Engineering Management ICMSEM 2019 which was held at Brock University Ontario Canada on August 5 8 2019 Exploring the latest ideas and pioneering research achievements in management science and engineering management the respective contributions highlight both theoretical and practical studies on management science and computing methodologies and present advanced management concepts and computing technologies for decision making problems involving large uncertain and unstructured data Accordingly the proceedings offer researchers and practitioners in related fields an essential update as well as a source of new research directions **Glocalized Solutions for Sustainability in Manufacturing** Jürgen Hesselbach,Christoph Herrmann,2011-03-19 The 18th CIRP International Conference on Life Cycle Engineering LCE 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment product development sustainable manufacturing and end of life management The theme Glocalized Solutions for Sustainability in Manufacturing addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products services and processes taking into account local capabilities and constraints to achieve an economically socially and environmentally sustainable society in a global perspective Glocalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions Products and services need to be addressed that ensure a high standard of living everywhere Resources required for manufacturing and use of such products are limited and not evenly distributed in the world Locally available resources local capabilities as well as local constraints have to be drivers for product and process innovations with respect to the entire life cycle The 18th CIRP International Conference on Life Cycle Engineering LCE 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas

Advances in Production Management Systems: Innovative and Knowledge-Based Production Management in a Global-Local World Bernard Grabot,Bruno Vallespir,Gomes Samuel,Abdelaziz Bouras,Dimitris Kiritsis,2014-08-26 The three volumes IFIP AICT 438 439 and 440 constitute the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2014 held in Ajaccio France in September 2014 The 233 revised full papers were carefully reviewed and selected from 271 submissions They are organized in 6 parts knowledge discovery and sharing knowledge based planning and scheduling knowledge based sustainability knowledge based services knowledge

based performance improvement and case studies *Encyclopedia of Sustainable Technologies* Martin Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies *Process Systems Engineering for Pharmaceutical Manufacturing* Ravendra Singh,Zhihong Yuan,2018-03-16 Process Systems Engineering for Pharmaceutical Manufacturing From Product Design to Enterprise Wide Decisions Volume 41 covers the following process systems engineering methods and tools for the modernization of the pharmaceutical industry computer aided pharmaceutical product design and pharmaceutical production processes design synthesis modeling and simulation of the pharmaceutical processing unit operation integrated flowsheets and applications for design analysis risk assessment sensitivity analysis optimization design space identification and control system design optimal operation control and monitoring of pharmaceutical production processes enterprise wide optimization and supply chain management for pharmaceutical manufacturing processes Currently pharmaceutical companies are going through a paradigm shift from traditional manufacturing mode to modernized mode built on cutting edge technology and computer aided methods and tools Such shifts can benefit tremendously from the application of methods and tools of process systems engineering Introduces Process System Engineering PSE methods and tools for discovering developing and deploying greener safer cost effective and efficient pharmaceutical production processes Includes a wide spectrum of case studies where different PSE tools and methods are used to improve various pharmaceutical production processes with distinct final products Examines the future benefits and challenges for applying PSE methods and tools to pharmaceutical manufacturing **Green Design, Materials and Manufacturing Processes** Helena Bartolo,Paulo Jorge Da Silva Bartolo,Nuno Manuel Fernandes Alves,Artur Jorge Mateus,Henrique Amorim Almeida,Ana Cristina Soares Lemos,Flávio Craveiro,Carina Ramos,Igor Reis,Lina Durão,Telma Ferreira,José Pinto Duarte,Filipa Roseta,Eduardo Castro e Costa,Filipe Quaresma,João Paulouro Neves,2013-06-06 The rise

of manufacturing intelligence is fuelling innovation in processes and products concerning a low environmental impact over the product s lifecycle Sustainable intelligent manufacturing is regarded as a manufacturing paradigm for the 21st century in the move towards the next generation of manufacturing and processing technologies The manufacturing industry has reached a turning point in its evolution and new business opportunities are emerging With sustainable development arises the immense challenge of combining innovative ideas regarding design materials and products with non polluting processes and technologies conserving energy and other natural resources On the other hand sustainability has become a key concern for government policies businesses and the general public Model cities are embracing novel ecosystems combining environmental social and economic issues in more inclusive and integrated frameworks Green Design Materials and Manufacturing Processes includes essential research in the field of sustainable intelligent manufacturing and related topics making a significant contribution to further development of these fields The volume contains reviewed papers presented at the 2nd International Conference on Sustainable Intelligent Manufacturing conjointly organized by the Centre for Rapid and Sustainable Product Development Polytechnic Institute of Leiria and the Faculty of Architecture Technical University of Lisbon both in Portugal This event was held at the facilities of the Faculty of Architecture Lisbon from June 26 to June 29 2013 A wide range of topics is covered such as Eco Design and Innovation Energy Efficiency Green and Smart Manufacturing Green Transportation Life Cycle Engineering Renewable Energy Technologies Reuse and Recycling Techniques Smart Design Smart Materials Sustainable Business Models and Sustainable Construction Green Design Materials and Manufacturing Processes is intended for engineers architects designers economists and manufacturers who are actively engaged in the advancement of science and technology regarding key sustainability issues leading to more suitable efficient and sustainable products materials and processes **Handbook of Manufacturing Systems and Design** Uzair Khaleeq uz Zaman,Ali Siadat,Aamer Ahmed Baqai,Kanwal Naveed,Atal Anil Kumar,2023-08-24 This book provides a comprehensive overview of manufacturing systems their role in product process design and their interconnection with an Industry 4 0 perspective especially related to design manufacturing and operations Handbook of Manufacturing Systems and Design An Industry 4 0 Perspective provides the knowledge related to the theories and concepts of Industry 4 0 It focuses on the different types of manufacturing systems in Industry 4 0 along with associated design and control strategies It concentrates on the operations in Industry 4 0 with a particular focus on supply chain logistics risk management and reverse engineering perspectives Offering basic concepts and applications through to advanced topics the handbook feeds into the goal of being a source of knowledge as well as a vehicle to explore the future possibilities of design techniques methods and operations associated with Industry 4 0 Concepts with practical applications in the form of case studies are added to each chapter to round out the many attributes this handbook offers This handbook targets students engineers managers designers and manufacturers and will assist in their understanding of the core concepts of manufacturing systems in connection with Industry 4 0 and optimize

alignment between supply and demand in real time for effective implementation of the design concepts **Advances in Green Energy Systems and Smart Grid** Kang Li,Jianhua Zhang,Minyou Chen,Zhile Yang,Qun Niu,2018-09-04 The three volume set CCIS 923 CCIS 924 and CCIS 925 constitutes the thoroughly refereed proceedings of the First International Conference on Intelligent Manufacturing and Internet of Things and of the 5th International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2018 held in Chongqing China in September 2018 The 135 revised full papers presented were carefully reviewed and selected from over 385 submissions The papers of this volume are organized in topical sections on clean energy electric vehicles energy saving energy storages power system analysis

Advances in Production Management Systems. Production Management Systems for Volatile, Uncertain, Complex, and Ambiguous Environments Matthias Thürer,Ralph Riedel,Gregor von Cieminski,David Romero,2024-09-06 The six volume set IFIP AICT 728 729 constitutes the refereed proceedings of the 43rd IFIP WG 5 7 International Conference on Advances in Production Management Systems APMS 2024 held in Chemnitz Germany during September 8 12 2024 The 201 full papers presented together were carefully reviewed and selected from 224 submissions The APMS 2024 conference proceedings are organized into six volumes covering a large spectrum of research addressing the overall topic of the conference Production Management Systems for Volatile Uncertain Complex and Ambiguous Environments Part I advancing eco efficient and circular industrial practices barriers and challenges for transition towards circular and sustainable production processes and servitized business models implementing the EU green deal challenges and solutions for a sustainable supply chain risk analysis and sustainability in an uncertain system in a digital era Part II smart and sustainable supply chain management in the society 5 0 era human centred manufacturing and logistics systems design and management for the operator 5 0 inclusive work systems design applying technology to accommodate individual workers needs evolving workforce skills and competencies for industry 5 0 experiential learning in engineering education Part III lean thinking models for operational excellence and sustainability in the industry 4 0 era human in command operator 4 0 5 0 in the age of AI and robotic systems hybrid intelligence decision making for AI enabled industry 5 0 mechanism design for smart and sustainable supply chains Part IV digital transformation approaches in production and management new horizons for intelligent manufacturing systems with IoT AI and digital twins Part V smart manufacturing assets as drivers for the twin transition towards green and digital business engineering and managing AI for advances in asset lifecycle and maintenance management transforming engineer to Order projects supply chains and systems in turbulent times methods and tools to achieve the digital and sustainable servitization of manufacturing companies open knowledge networks for smart manufacturing applications of artificial intelligence in manufacturing intralogistics Part VI modelling supply chain and production systems resilience management in supply chains digital twin concepts in production and services optimization additive manufacturing advances in production management systems **Handbook of Industrial and Systems**

Engineering Adedeji B. Badiru,2013-10-11 A new edition of the bestselling industrial and systems engineering text this book provides students researchers and practitioners with easy access to a wide range of industrial engineering tools and techniques in a concise format It expands the breadth and depth of coverage emphasizing new systems engineering tools techniques and models New coverage includes control charts engineering economy health operational efficiency healthcare systems human systems integration lean systems logistics transportation manufacturing systems material handling systems process view of work queuing systems reliability systems and tools and six sigma techniques *Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes* Gerardo Ruiz Mercado,Heriberto Cabezas,2016-06-09 Sustainability in the Design Synthesis and Analysis of Chemical Engineering Processes is an edited collection of contributions from leaders in their field It takes a holistic view of sustainability in chemical and process engineering design and incorporates economic analysis and human dimensions Ruiz Mercado and Cabezas have brought to this book their experience of researching sustainable process design and life cycle sustainability evaluation to assist with development in government industry and academia This book takes a practical step by step approach to designing sustainable plants and processes by starting from chemical engineering fundamentals This method enables readers to achieve new process design approaches with high influence and less complexity It will also help to incorporate sustainability at the early stages of project life and build up multiple systems level perspectives Ruiz Mercado and Cabezas book is the only book on the market that looks at process sustainability from a chemical engineering fundamentals perspective Improve plants processes and products with sustainability in mind from conceptual design to life cycle assessment Avoid retro fitting costs by planning for sustainability concerns at the start of the design process Link sustainability to the chemical engineering fundamentals Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials Muduli, Kamalakanta,Moharana, Bikash Ranjan,Ales, Steve Korakan,Biswal, Dillip Kumar,2025-04-23 The shift toward sustainable manufacturing is vital for addressing the pressing environmental challenges of the 21st century By integrating sustainability principles manufacturing processes can minimize resource consumption reduce greenhouse gas emissions and extend product lifecycles This approach emphasizes designing for regeneration using eco friendly materials and adopting advanced digital technologies like artificial intelligence AI Internet of Things IoT and blockchain to optimize production and promote environmental stewardship Sustainable manufacturing not only mitigates ecological harm but also fosters innovation enhances competitiveness and supports long term economic and societal resilience Adopting such practices is essential for transitioning to a more responsible and sustainable global economy Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials highlights how the application of computational intelligence techniques can promote resource and environmental sustainability in manufacturing systems and operational practices It further examines how sustainable practices and advanced technologies in materials manufacturing can revolutionize production processes while minimizing environmental

impact and promoting resource efficiency Covering topics such as energy storage nanoparticles and biomaterials this book is an excellent resource for computer scientists business professionals manufacturers environmentalists researchers professionals scholars academicians and more Flexible Automation and Intelligent Manufacturing: Establishing Bridges for More Sustainable Manufacturing Systems Francisco J. G. Silva,Luís Pinto Ferreira,José Carlos Sá,Maria Teresa Pereira,Carla M. A. Pinto,2023-08-24 This book reports on cutting edge research and developments in manufacturing giving a special emphasis to solutions fostering automation sustainability and health safety and well being at work Topics cover manufacturing process analysis and optimization supply chain management quality control as well as human factors and logistics They highlight the role and advantages of intelligent systems and technologies discussing current best practices and challenges to cope with in the near future Based on proceedings of the 32nd edition of the International Conference on Flexible Automation and Intelligent Manufacturing FAIM 2023 held on June 18 22 2023 in Porto Portugal this second volume of a 2 volume set provides academics and professionals with extensive information on innovative strategies for industrial management in the era of industry 5 0

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