

David A. Dornfeld  
*Editor*

# Green Manufacturing

Fundamentals and Applications



Springer

# Green Manufacturing Fundamentals And Applications Green Energy And Technology

**Paramvir Singh, Avinash Kumar  
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## **Green Manufacturing Fundamentals And Applications Green Energy And Technology:**

**Green Manufacturing** David A. Dornfeld, 2012-12-09 Green Manufacturing Fundamentals and Applications introduces the basic definitions and issues surrounding green manufacturing at the process machine and system including supply chain levels. It also shows by way of several examples from different industry sectors the potential for substantial improvement and the paths to achieve the improvement. Additionally, this book discusses regulatory and government motivations for green manufacturing and outlines the path for making manufacturing more green as well as making production more sustainable. This book also discusses new engineering approaches for manufacturing and provides a path from traditional manufacturing to green manufacturing. Addresses regulatory and economic issues surrounding green manufacturing. Details new supply chains that need to be in place before going green. Includes state of the art case studies in the areas of automotive, semiconductor, and medical areas as well as in the supply chain and packaging areas. Advances in Manufacturing

Technology XXXI Simeon Keates, 2017-08-15 The urgent need to keep pace with the accelerating globalization of manufacturing in the 21st century has produced rapid advances in manufacturing research, development, and innovation. This book presents the proceedings of the 15th International Conference on Manufacturing Research (ICMR 2017) which also incorporated the 32nd National Conference on Manufacturing Research (NCMR) and was held at the University of Greenwich, London, UK, in September 2017. The conference brings together a broad community of researchers who share the common goal of developing and managing the technologies and operations key to sustaining the success of manufacturing businesses. The book is divided into 13 parts covering topics such as advanced manufacturing technologies including additive, ultra-precision, and nano manufacturing; manufacturing systems; digital and cyber physical systems; product design and development; lifecycle management; and supply chain collaboration, information, and communication including innovation and knowledge management; and manufacturing management including lean, sustainable, and cost engineering. With its comprehensive overview of current developments, this book will be of interest to all those involved in manufacturing today. **Emerging Green Technologies** Matthew N. O. Sadiku, 2020-03-10 Green Technology deals with using science and technology to protect the environment as well as curb the negative impacts of human involvement. The emerging green technologies covered in this book will propel our economy in the near future. Their development will lead to global and sustainable powers that will impact our economics, societies, cultures, and the way of life. This book provides researchers, students, and professionals a comprehensive introduction, applications, benefits, and challenges of 15 emerging green technologies. It presents the impact of these cutting-edge technologies on our global economy and its future. The book will help a beginner to have an introductory knowledge about these emerging technologies. The main objective of the author is to provide a concise treatment that is easily digestible. It is a must-read for those graduate students or scholars who consider researching green technologies. It can also serve as a valuable resource for those business professionals who seek ways to

green their processes      *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

Green Manufacturing for Industry 4.0 Rityuj Singh Parihar, Naveen Jain, 2024-06-19 With the introduction of Industry 4.0 in manufacturing industries the paradigm shift from conventional to green manufacturing is quite evident Manufacturing industries achieving sustainability objectives is now the prime concern This paradigm creates more efficient products using green processes and practices i.e. those that produce minimal environment hazardous waste This book provides an overview of the broad field of research on green manufacturing with a focus on the Fourth Industrial Revolution to encourage interest in the topic It includes the dissemination of original findings on Industry 4.0 pathways and practices applied to green manufacturing development as well as the contribution of new perspectives and roadmaps to those eager to realize the benefits of Industry 4.0 to transform the manufacturing sector into a more environment friendly state This book shows how the innovations of Industry 4.0 work together to improve society save lives create efficiencies and ultimately achieve the objectives of sustainability To develop a smart green manufacturing technology it is important to understand the prerequisites technological developments and technological aspects that conceptually describe this transformation This understanding should also include practices models and real world experiences At the same time the goal is to comprehend how Industry 4.0 technologies and smart products could result in environmental economic and social benefits Essentially the goal of this book is to provide the fundamentals of the cutting edge smart technology driven production maneuver known as Industry 4.0 primarily to determine and validate its potential as a practice that promotes green manufacturing to ultimately revolutionize the competitiveness of businesses and regions      **Advances in Manufacturing and Processing of**

**Materials and Structures** Yoseph Bar-Cohen, 2018-09-03 *Advances in Manufacturing and Processing of Materials and Structures* cover the latest advances in materials and structures in manufacturing and processing including additive and subtractive processes It is intended to provide a compiled resource that reviews details of the advances that have been made in recent years in manufacturing and processing of materials and structures A key development incorporated within this book is 3D printing which is being used to produce complex parts including composites with odd shape fibers as well as tissue and body organs This book has been tailored for engineers scientists and practitioners in different fields such as aerospace

mechanical engineering materials science and biomedicine Biomimetic principles have also been integrated Features Provides the latest state of the art on different manufacturing processes including a biomimetics viewpoint Offers broad coverage of advances in materials and manufacturing Written by chapter authors who are world class researchers in their respective fields Provides in depth presentation of the latest 3D and 4D technologies related to various manufacturing disciplines Provides substantial references in each chapter to enhance further study Circular Economy for the Management of Operations Anil Kumar, Jose Arturo Garza-Reyes, Syed Abdul Rehman Khan, 2020-12-15 Circular Economy is a new concept in operations management Its goal is to redefine growth focusing on positive benefits arising for society as a whole out of efficiencies such as designing waste out the operations process This book will help practitioners use the proper strategy for effective adoption of Circular practices to use in their organization Features Provides a complete understanding of Circular Economy practices Offers advanced mathematical models to help industry management adopt the correct practices Presents a deep understanding of cross functional and customer focused design thinking Covers how to develop sustainable practices in all types of activities within operations management Circular Economy for the Management of Operations will be of interest to practitioners and researchers in engineering as well as business management **Green Technologies for Wastewater Treatment and Bioenergy Production** Imran Ahmad, 2025-03-28 Currently most of the physical and chemical technologies generally employed for the treatment of wastewater are costly and inefficient Researchers have been working to find green technologies for the sustainable and economically viable treatment methods for wastewater and Green Technologies for Wastewater Treatment and Bioenergy Production focuses on these latest advancements These include bioremediation bioaugmentation wetlands and algal treatment technologies which are considered to contribute toward a circular bioeconomy and to be crucial in attaining various sustainable development goals Examines the production of biofuels and other forms of bioenergy derived from wastewater Explains how these emerging green technologies contribute toward a circular bioeconomy and aid in achieving various sustainable development goals

**Sustainable Water Technologies** Daniel H. Chen, 2016-10-14 Development of advanced technologies is a critical component in overcoming the looming water crisis Stressing emerging technologies and strategies that facilitate water sustainability for future generations the second volume in the two volume set Sustainable Water Management and Technologies provides current and forthcoming technologies research development and applications to help ensure availability of water for all The book emphasizes emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products to protect the environment and human health save water and energy and minimize material use It also discusses such topics as groundwater transport protection and remediation industrial and wastewater treatment reuse and disposal membrane technology for water purification and desalination treatment and disposal in unconventional oil and gas development biodegradation and bioremediation for soil and water

Stresses emerging technologies and strategies that facilitate water sustainability Covers a wide array of topics including drinking water wastewater and groundwater treatment protection and remediation Discusses oil and gas drilling impacts and pollution prevention membrane technology for water desalination and purification biodegradation and bioremediation for soil and water Details emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products

**Nanoelectronic Materials** Loutfy H. Madkour, 2019-06-27 This book presents synthesis techniques for the preparation of low dimensional nanomaterials including 0D quantum dots 1D nanowires nanotubes and 2D thin films few layers as well as their potential applications in nanoelectronic systems It focuses on the size effects involved in the transition from bulk materials to nanomaterials the electronic properties of nanoscale devices and different classes of nanomaterials from microelectronics to nanoelectronics to molecular electronics Furthermore it demonstrates the structural stability physical chemical magnetic optical electrical thermal electronic and mechanical properties of the nanomaterials Subsequent chapters address their characterization fabrication techniques from lab scale to mass production and functionality In turn the book considers the environmental impact of nanotechnology and novel applications in the mechanical industries energy harvesting clean energy manufacturing materials electronics transistors health and medical therapy In closing it addresses the combination of biological systems with nanoelectronics and highlights examples of nanoelectronic cell interfaces and other advanced medical applications The book answers the following questions What is different at the nanoscale What is new about nanoscience What are nanomaterials NMs What are the fundamental issues in nanomaterials Where are nanomaterials found What nanomaterials exist in nature What is the importance of NMs in our lives Why so much interest in nanomaterials What is at nanoscale in nanomaterials What is graphene Are pure low dimensional systems interesting and worth pursuing Are nanotechnology products currently available What are sensors How can Artificial Intelligence AI and nanotechnology work together What are the recent advances in nanoelectronic materials What are the latest applications of NMs

**Fuzzy Sets, Fuzzy Logic and Their Applications** Michael Gr. Voskoglou, 2020-03-25 The present book contains 20 articles collected from amongst the 53 total submitted manuscripts for the Special Issue Fuzzy Sets Fuzzy Logic and Their Applications of the MDPI journal Mathematics The articles which appear in the book in the series in which they were accepted published in Volumes 7 2019 and 8 2020 of the journal cover a wide range of topics connected to the theory and applications of fuzzy systems and their extensions and generalizations This range includes among others management of the uncertainty in a fuzzy environment fuzzy assessment methods of human machine performance fuzzy graphs fuzzy topological and convergence spaces bipolar fuzzy relations type 2 fuzzy and intuitionistic interval valued complex picture and Pythagorean fuzzy sets soft sets and algebras etc The applications presented are oriented to finance fuzzy analytic hierarchy green supply chain industries smart health practice and hotel selection This wide range of topics makes the book interesting for all those working in the wider area of Fuzzy sets and systems and of fuzzy logic and for those

who have the proper mathematical background who wish to become familiar with recent advances in fuzzy mathematics which has entered to almost all sectors of human life and activity *Green Energy Harvesting* Pooja Devi, 2022-10-06 Comprehensive resource summarizing current approaches to generating hydrogen from water and reducing CO<sub>2</sub> into various hydrocarbons *Green Energy Harvesting Materials for Hydrogen Generation and Carbon Dioxide Reduction* provides an in depth treatment of the subject by exploring the fundamentals required for the selection of the materials their synthesis methods and possible ways to modify them for higher efficiency and enhanced stability The prospects of adopting these sustainable solutions at a commercial level are summarized Special emphasis is given to the figure of merits for currently developed systems for hydrogen generation and CO<sub>2</sub> reduction and to an assessment of available materials in terms of efficacy and efficiency *Green Energy Harvesting* also includes information on Renewable energy in general including the role of renewable hydrogen and hydrocarbon fuels and possible renewable energy sources A fundamental understanding hydrogen generation and CO<sub>2</sub> reduction Device development and deployment status for commercial usage and applications of H<sub>2</sub> and hydrocarbon fuels in various sectors Electrocatalysts 2D materials and hybrid materials for CO<sub>2</sub> reduction and H<sub>2</sub> generation *Green Energy Harvesting* is a highly useful guide for both novice and experienced researchers involved in renewable energy and carbon dioxide utilization that explains the current state of the field and discusses future perspectives

*Fundamentals of Electric Power System* Dr. Sandeep Sharma, Richa Chaudhary, Dr. Prashant Mani, Dr. Sudha K, Electric power systems are at the heart of modern society powering homes businesses and industries around the globe As such a firm grasp of their fundamental principles is essential for anyone involved in the design operation or management of electrical infrastructure Throughout this book emphasis is placed not only on theoretical foundations but also on practical insights gleaned from real world engineering practices Case studies examples and illustrations are utilized to illustrate key concepts and demonstrate their relevance in solving real world problems *Sustainable Manufacturing* Rainer Stark, Günther Seliger, Jérémy Bonvoisin, 2017-01-16 This edited volume presents the research results of the Collaborative Research Center 1026 Sustainable manufacturing shaping global value creation The book aims at providing a reference guide of sustainable manufacturing for researchers describing methodologies for development of sustainable manufacturing solutions The volume is structured in four chapters covering the following topics sustainable manufacturing technology sustainable product development sustainable value creation networks and systematic change towards sustainable manufacturing The target audience comprises both researchers and practitioners in the field of sustainable manufacturing but the book may also be beneficial for graduate students *Microbiology for Cleaner Production and Environmental Sustainability* Naga Raju Maddela, Lizziane Kretli Winkelstroter Eller, Ram Prasad, 2023-08-15 Growth of populations increasing urbanization and rising standards of living due to technological innovations demand not only the meticulous use of shrinking resources but also sustainable ways of producing materials for human welfare Cleaner production involves preventive and protective initiatives

which are intended to minimize waste and emissions and maximize product output These novel microbiological techniques are a practical option for achieving environmental sustainability Microbiology for Cleaner Production and Environmental Sustainability serves as a valuable source of information about microbiological advancements for a sustainability in diversified areas such as energy resources food industries agricultural production and environmental remediation of pollution Features Covers key issues on the role of microbiology in the low cost production of bioenergy Provides comprehensive information on microorganisms for maximizing productivity in agriculture Examines green pharmaceutical production Provides the latest research on microbiological advancements in the restoration of contaminated sites **Metal Forming 2014** F. Micari,L. Fratini,2014-09-26 Selected peer reviewed papers from the 15th International Conference on Metal Forming 2014 September 21 24 2014 Palermo Italy **A Green Vision Towards a Renewable Energy Future** Suphi S. Oncel,2025-09-26 This 2 volume set provides an overview of the global progress in achieving renewable energy goals through sustainable and economically viable means Volume II covers various potential renewable energy sources such as solar wind hydro and biomass including the technologies associated with each that are economically feasible while still being environmentally sustainable in their implementation This then leads into a discussion of how a transition to a green economy based on renewable energy could be achieved including global opportunities trends policy considerations and societal implications The book will appeal to academics industry professionals and policy makers engaged with the energy economy renewable energy research and environmental sustainability *Materials and Technologies in Modern Mechanical Engineering* Muslim Mahardika,2016-06-22 Selected peer reviewed papers from the 8th RCMME Regional Conference on Mechanical and Manufacturing Engineering in conjunction with the ICMME 2015 International Conference on Mechanical and Manufacturing Engineering November 5 6 2015 Yogyakarta Indonesia **Challenges and Opportunities in Green Hydrogen Production** Paramvir Singh,Avinash Kumar Agarwal,Anupma Thakur,R. K. Sinha,2024-05-20 This book comprehensively explores the dynamic landscape of green hydrogen a transformative energy carrier It offers a resource for researchers professionals and policymakers in sustainable energy Starting with foundational understanding it delves into hydrogen s importance production methods and climate change mitigation This timely contribution addresses a knowledge gap by integrating green hydrogen s multifaceted aspects By integrating multifaceted aspects from fundamental principles to cutting edge applications and societal implications it provides a holistic grasp of green hydrogen s scientific technological and policy dimensions The book navigates the intricate journey of green hydrogen production spotlighting catalytic and technological breakthroughs renewable energy integration electrolyzer systems and material strategies Industrial applications and environmental impacts are detailed covering life cycle assessments water use land considerations and policy insights This book caters to a diverse readership invested in sustainability and renewable energy transition This book s multidisciplinary expertise guides the energy transition fostering informed decision making and inspiring collaboration



Policymakers entrepreneurs environmental experts and researchers can find crucial implications gain strategic insights and explore ecological aspects It endeavors to equip stakeholders with the knowledge insights and foresight needed to usher in a sustainable energy paradigm      **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

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