


Chapter 12

Sustainability and Optimization of Green and Lean Manufacturing Processes Using Machine Learning Techniques

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ABSTRACT

The chapter introduces the concepts of sustainability, green manufacturing, and lean manufacturing, emphasizing their importance in the manufacturing industry. It then highlights the relevance of machine learning techniques in supporting sustainable manufacturing practices. It focuses on the application of machine learning in sustainable manufacturing, presenting case studies that illustrate the use of machine learning algorithms in optimizing energy consumption, reducing waste, and improving process efficiency. It also discusses the challenges and limitations of implementing machine learning techniques in sustainable manufacturing, as well as potential future advancements. Machine learning techniques can be used to achieve sustainable and efficient manufacturing operations, providing valuable insights for researchers, practitioners, and policymakers.

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Agile Manufacturing Systems K Hans Raj, 2011-12-17 Agility has become very important for the industries today as the lifetimes of the products are continuously shrinking This book provides an excellent opportunity for updating understanding of agile methods from the design manufacturing and business process perspectives whether one is an industrial practitioner academic researcher engineer or business graduate student This volume is a compilation of various important aspects of agility consisting of systemic considerations in manufacturing agile software systems agile business systems agile operations research flexible manufacturing systems advanced manufacturing systems with improved materials and mechanical behavior of products agile aspects of design clean and green manufacturing systems environment agile defence systems

Manufacturing Process Optimization for Sustainable Development Using Digital Twin Applications Santosh Kumar Tamang, Vishnu Vijay Kumar, J. Paulo Davim, 2026-05-06 Manufacturing Process Optimization for Sustainable Development Using Digital Twin Applications explores the potential of digital twin applications in the manufacturing sector with a primary focus on achieving sustainable development The edited volume provides a comprehensive overview of the interdisciplinary nature of digital twin applications considering how collaboration between engineering data science environmental science and other fields can lead to holistic and impactful solutions The content addresses the challenges and potential hurdles in implementing digital twin solutions in manufacturing while also proposing future directions for research and development in this rapidly evolving field further reviewing how digital twin technologies can be effectively applied to enhance efficiency reduce waste and improve overall productivity in manufacturing processes The role of digital twins in contributing to sustainable development goals is also analyzed including considerations such as resource conservation energy efficiency and the reduction of environmental impact throughout the manufacturing lifecycle Case studies and real world examples are included to illustrate successful implementations The publication caters to a diverse audience of professionals researchers and academics from engineering disciplines including mechanical engineers industrial engineers electrical and electronic engineers data scientists and AI engineers and manufacturing and operations managers The comprehensive approach makes it an essential resource for anyone seeking to understand the intersection of digital twin technology and sustainable manufacturing practices

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

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

Innovation and Sustainable Manufacturing Carolina Machado, J. Paulo Davim, 2022-09-29 Innovation and Sustainable Manufacturing Research and Development addresses the manufacturing sustainability challenge from different points of view drawing on research from different disciplines to shed light on the latest green technologies green product design methods and materials Addressing the needs of practitioners as well as academics this book examines a range of important themes such as environmental impacts and how to assess them how to set boundary conditions to include or exclude downstream supply chains how to improve sustainability without sacrificing productivity the cost benefits of sustainability and how to trace impacts in manufacturing By providing a thorough review of global research in this field Innovation and Sustainable Manufacturing acts as an ideal entry point into this discipline for researchers and a guide to the latest developments for forward thinking practitioners Covers how different stages of the manufacturing supply chain can impact on sustainability Combines research from a variety of disciplines to provide a comprehensive coverage of this complex subject Explores the relationship between sustainability and other goals such as productivity quality and profitability

14th International Symposium on Process Systems Engineering Yoshiyuki Yamashita, Manabu Kano, 2022-06-24 14th International Symposium on Process Systems Engineering Volume 49 brings together the international community of researchers and engineers interested in computing based methods in process engineering The conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 2021 event held in Tokyo Japan July 1 23 2021 It contains contributions from academia and industry establishing the core products of PSE defining the new and

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Process Systems Engineering for Biofuels Development Adrian Bonilla-Petriciolet, Gade Pandu Rangaiah, 2020-08-06 A comprehensive overview of current developments and applications in biofuels production Process Systems Engineering for Biofuels Development brings together the latest and most cutting edge research on the production of biofuels As the first book specifically devoted to process systems engineering for the production of biofuels Process Systems Engineering for Biofuels Development covers theoretical computational and experimental issues in biofuels process engineering Written for researchers and postgraduate students working on biomass conversion and sustainable process design as well as industrial practitioners and engineers involved in process design modeling and optimization this book is an indispensable guide to the newest developments in areas including Enzyme catalyzed biodiesel production Process analysis of biodiesel production including kinetic modeling simulation and optimization The use of ultrasonication in biodiesel production Thermochemical processes for biomass transformation to biofuels Production of alternative biofuels In addition to the comprehensive overview of the subject of biofuels found in the Introduction of the book the authors of various chapters have provided extensive discussions of the production and separation of biofuels via novel applications and techniques

Mechanical Engineering, 2008 Maynard's Industrial and Systems Engineering Handbook, Sixth Edition Bopaya Bidanda, 2022-09-16 The classic industrial engineering resource fully updated for the latest advances Brought fully up to date by expert Bopaya M Bidanda this go to handbook contains exhaustive application driven coverage of Industrial Engineering IE principles practices materials and systems Featuring contributions from scores of international professionals in the field Maynard s Industrial Engineering Handbook Sixth Edition provides a holistic view of exactly what an Industrial Engineer in today s world needs to succeed All new chapters and sections cover logistics probability and statistics supply chains quality product design systems engineering and engineering management Coverage includes Productivity Engineering economics Human factors ergonomics and safety Compensation management Facility logistics Planning and scheduling Operations research Statistics and probability Supply chains and quality Product design Manufacturing models and analysis Systems engineering Engineering management The global Industrial Engineer IE application environments

Governance of Innovation Systems: Case studies in cross-sectoral policy Organisation for Economic Co-operation and Development, 2005 This book provides lessons from case studies in policy governance for the information society and sustainable development It highlights important lessons from these policy areas for the governance of innovation policy and illustrates mechanisms and practices for better co ordination and integration

across policy areas [Energy Efficiency in Strategy of Sustainable Production Vol. II](#) Jörg Franke, Sven Kreitlein, 2016-11-10
Selected peer reviewed papers from the 3rd Green Factory Bavaria Colloquium 2016 November 30 December 1 2016
Convention Center Nuremberg Germany *Governance of Innovation Systems: Volume 3: Case Studies in Cross-Sectoral
Policy* Organisation for Economic Co-operation and Development Staff, 2005 **Sustainable Industries Journal** , 2008
RTD Info , 2002 **Life Cycle Analysis Tools for 'Green' Materials and Process Selection: Volume 895** Stella
Papasavva, Vasilis Fthenakis, 2006-03-21 The MRS Symposium Proceeding series is an internationally recognised reference
suitable for researchers and practitioners *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 *Sustainable Value Chains for Sustainable Food Systems* Alexandre
Meybeck, Suzanne Redfern (Consultant at FAO), 2016 The workshop considered potential contributions of the organization
functioning and governance of food value chains to the sustainability of food systems The various sessions were focused on
different aspects in order to integrate perspectives of various actors the private sector and civil society along with
contributions from FAO research and academia Publisher s description [AIST Today](#) , 2005 [Web-based Green Products
Life Cycle Management Systems](#) Hsiao-Fan Wang, 2009-01-01 Despite being a relatively new field of research and
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