

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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Sustainable Manufacturing Systems: An Energy Perspective Lin Li,MengChu Zhou,2022-11-03 Sustainable Manufacturing Systems Learn more about energy efficiency in traditional and advanced manufacturing settings with this leading and authoritative resource Sustainable Manufacturing Systems An Energy Perspective delivers a comprehensive analysis of energy efficiency in sustainable manufacturing The book presents manufacturing modeling methods and energy efficiency evaluation and improvement methods for different manufacturing systems It allows industry professionals to understand the methodologies and techniques being embraced around the world that lead to advanced energy management The book offers readers a comprehensive and systematic theoretical foundation for novel manufacturing system modeling analysis and control It concludes with a summary of the insights and applications contained within and a discussion of future research issues that have yet to be grappled with Sustainable Manufacturing Systems answers the questions that energy customers managers decision makers and researchers have been asking about sustainable manufacturing The book s release coincides with recent and profound advances in smart grid applications and will serve as a practical tool to assist industrial engineers in furthering the green revolution Readers will also benefit from A thorough introduction to energy efficiency in manufacturing systems including the current state of research and research methodologies An exploration of the development of manufacturing methodologies including mathematical modeling for manufacturing systems and energy efficiency characterization in manufacturing systems An analysis of the applications of various methodologies including electricity demand response for manufacturing systems and energy control and optimization for manufacturing systems utilizing combined heat and power systems A discussion of energy efficiency in advanced manufacturing systems like stereolithography additive manufacturing and cellulosic biofuel manufacturing systems Perfect for researchers undergraduate students and graduate students in engineering disciplines especially for those majoring in industrial mechanical electrical and environmental engineering Sustainable Manufacturing Systems will also earn a place in the libraries of management and business students interested in manufacturing system cost performance and energy management *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 changing scope of our results and covering future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE versus the consolidation of the

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Industrial Resource Utilization and Productivity Anil Mital, Ph.D., 2010-08-16 This new compendium of recent advances in the use of modern technology and management concepts from distributed virtual manufacturing enterprises to integrating green technology in a cost effective manner to materials and energy savings will offer engineers and technical managers the needed insight to plan for future growth and success Greater utilization and availability of resources in the workplace are directly related to better design and better engineering in the manufacturing economy The book will explore how energy efficient smart materials and structures hold tremendous potential for realizing cost savings and improving energy use in the modern industrial workplace It will also show how industrial engineers have developed a variety of analytical and computer based tools and technologies for planning forecasting and scheduling resources including time labor and more recently

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