

Digital Manufacturing Industry 4 0 7 Springer

Industry 4.0 for Manufacturing Systems Vishal Ashok Wankhede 2025-04-24 The book highlights the importance of intelligent decision-making in advanced production systems, and optimization of process parameters using fuzzy-based multi-criteria decision-making tools. It discusses the decision-making aspects of Industry 4.0 using machine learning and optimization techniques and helps in moving toward the digitalization of manufacturing systems. It further covers several important topics including the role of digital twins in advanced manufacturing processes, machine learning-based prediction of overall equipment effectiveness, intelligent quality control tools, and life cycle assessment models in Industry 4.0. Key features: Presents a conceptual framework to measure the readiness of adopting Industry 4.0 in advanced manufacturing systems. Discusses the impact of smart manufacturing on sustainable development and integration of Industry 4.0 and additive manufacturing. Covers topics such as intelligent automation systems, machine learning-based preventive maintenance, and the Internet of Things-enabled additive manufacturing in Industry 4.0. Explains cyber-physical system integration with Industry 4.0 technologies, cyber-physical systems in industrial robotics, and green cyber-physical systems. Illustrates optimization of process parameters using fuzzy-based multi-criteria decision-making tools and life cycle assessment models in Industry 4.0. This book is primarily written for senior undergraduates, graduate students, and academic researchers in the fields of industrial engineering, production engineering, mechanical engineering, supply chain management, and manufacturing engineering.

Computers in Mechanical Engineering 1986

International Books in Print 1997

Sustainability, Technology and Innovation 4.0 Zbigniew Makiela 2021-09-08 Sustainability, Technology and Innovation 4.0 is a holistic perception and analysis of innovation at the level of public organisations, innovation in industry and innovation in HR. Its chapters collectively present a thesis that Innovation 4.0 signals a technological revolution that has the opportunity to prevent environmental degradation and, in particular, to stop climate warming, the effects of which may disrupt the process of sustainable development. Uniquely, this edited book offers a comprehensive and multi-faceted examination of Innovation 4.0, fulfilling methodical, empirical and utilitarian goals. The methodological objective is to present tools that allow the identification, analysis and assessment of the relationship between Innovation 4.0 and inspiration that will carry society towards a new economic and social order. Its empirical aim is to enable the analysis and evaluation of the role of public organisations, innovation in industry and innovation in HR in the process of building sustainable development of the global environment. The book's utilitarian goal is a recommendation for global organisations of Innovation 4.0 as an instrument to stimulate an innovative economy. This is a high-level research book aimed at postgraduates, MBA students, researchers and academics from business colleges and universities, and may also provide a valuable strategic perspective for business executives.

Sustainability and Smart Manufacturing Bożena Gajdzik 2024-08-05 This book discusses three key aspects of business operations: sustainability, human factors, and smart manufacturing, which make up modern business. The authors share their experiences in the transformation of enterprises to Industry 4.0/5.0 and the sustainability of steel production, as well as the reorganization of human factors using the example of the steel sector. The steel industry is covered both from a global perspective (key producers in the global steel market), as well as from a local and sectoral perspective (the companies that make up the sector of metal and metal product producers, using Poland as an example). This insightful book discusses how the steel industry can develop intelligent solutions to enhance sustainable performance and the challenges they must overcome, including policy and regulation. Case studies evaluate how steel companies are investing in new technologies that meet environmental requirements but also human resource development to enhance digital skills and competencies of the workforce. The book will find an audience across disciplines but be of particular value to scholars of industrial, operations, and technology

management.

The British National Bibliography Arthur James Wells 1996

Paperbound Books in Print 1992

Forthcoming Books Rose Army 2004

Scientific and Technical Books and Serials in Print 1989

Agile Business Leadership Methods for Industry 4.0 Bülent Akkaya 2020-10-05 Agile Business Leadership Methods for Industry 4.0 is a collection of innovative research on new leadership styles that will develop agile managers and business leaders who can improve company success in the fast-paced environments created by Industry 4.0.

Advanced Technologies in Designing and Progressive Development of Manufacturing Systems Tom Savu 2015-05-18 Selected, peer reviewed papers from joint International Conferences ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies ROBOTICS 2014 - VIth International Conference on Robotics POLCOM 2014 - International Conference of Technology for Polymeric and Composites Products October 23-24, 2014, Bucharest, Romania

Computer Books and Serials in Print 1985

The Cumulative Book Index 1998 A world list of books in the English language.

Books in Print 1991

Subject Guide to Books in Print 1991

Applied Mechanics Reviews 1985

Enabling Technologies for the Successful Deployment of Industry 4.0 Antonio Sartal 2020-04-16 This book offers the latest research advances in the field of Industry 4.0, focusing on enabling technologies for its deployment in a comprehensive way. This book offers successful implementation of technologies such as artificial intelligence, augmented and virtual reality, autonomous and collaborative robots, cloud computing, and up-to-date guidelines. It investigates how the technologies and principles surrounding Industry 4.0 (e.g., interoperability, decentralized decisions, information transparency, etc.) serve as support for organizational routines and workers (and vice versa). Included are applications of technologies for different sectors and environments as well as for the supply chain management. It also offers a domestic and international mix of case studies that spotlight successes and failures. Features Provides a historical review of Industry 4.0 and its roots Discusses the applications of technologies in different sectors and environments (e.g., public vs. private) Presents key enabling technologies for successful implementation in any industrial and service environment Offers case studies of successes and failures to illustrate how to put theory into practice Investigates how technologies serve as support for organizational routines and workers

Directory of Published Proceedings 2002

Robotics Age 1984

Robotics, CAD/CAM Market Place, 1985 1985

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