

Hsiao-Fan Wang

Surendra M. Gupta



GREEN SUPPLY CHAIN MANAGEMENT

Product Life Cycle Approach

Green Supply Chain Management Product Life Cycle Approach

Tamás Bányai, Ireneusz Kaczmar



Green Supply Chain Management Product Life Cycle Approach:

Green Supply Chain Management: Product Life Cycle Approach Hsiao-Fan Wang, Surendra M. Gupta, 2011-08-05 A COMPLETE GUIDE TO IMPLEMENTING A GREEN SUPPLY CHAIN This detailed resource provides a stage by stage production methodology within the life cycle of a product to ensure environmental compliance and economic goals After covering basic concepts and background Green Supply Chain Management Product Life Cycle Approach discusses green engineering technologies green value chain management and green information management systems The book delivers the knowledge to quantify the environmental impact on supply chains and identify opportunities for making improvements leading to both green engineering and green management of a product COVERAGE INCLUDES Mathematical background Green engineering Green materials Environmental design Green procurement vendor selection with risk analysis Green production manufacture and remanufacture in certain and uncertain environments Green logistics recycling with certain and uncertain situations Green customers features and identification End of life management disassembly and reuse Database for life cycle assessment procedure with database Web based information support systems **Green Supply Chain**

Management Elham Falatoonitoosi, Zulkiflle Leman, 2016-04 Web-Based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization Wang, Hsiao-Fan, 2008-12-31 Provides a review of current and potential research in green management and control **Green Supply Chain** Tamás Bányai, Ireneusz Kaczmar, 2021-09-22 The integration of eco friendly aspects tools and solutions into a conventional supply chain leads to environmentally friendly global processes in the manufacturing and service industry This book offers a selection of chapters that explain the impact of green supply chain solutions on value making chains The aim of this book is to help students at all levels as well as managers and researchers to understand and appreciate the concept design and implementation of green supply chain solutions in the Industry 4.0 era

Green Practices and Strategies in Supply Chain Management Syed Abdul Rehman Khan, 2019-09-11 We look at green supply chain management from the vantage point of the triple bottom line environmental economic and social There are many sustainability decisions that can be made on which we have an incredible impact Usually managers have the opportunity to make decisions in five areas of the supply chain plan source make deliver and return Nowadays consumers care more about where and how the products are produced and delivered what they are made of and who made them Regulatory bodies are continuously creating pressure on firms to adopt eco friendly practices in their businesses for better environmental sustainability As a result firms have just two choices to adopt green and or eco friendly practices in their supply chain operations to fulfill their customers and regulatory bodies requirement or not to adopt green practices and lose their business position and potential customers **Best Practices in Green Supply Chain Management** Sadia Samar Ali, Rajbir Kaur, Jose Antonio Marmolejo Saucedo, 2019-04-30 Best Practices in Green Supply Chain Management uses present case studies from the Indian and Mexican manufacturing industries to offer new insights on the challenges of integrating

environmental awareness into supply chain management operations in developing countries Green Business: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-02-01 The issues of sustainability and corporate social responsibility have become vital discussions in many industries within the public and private sectors In the business realm incorporating practices that serve the overall community and ecological wellbeing can also allow businesses to flourish economically and socially Green Business Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises focusing on how green approaches improve operations Highlighting a range of topics such as corporate sustainability green enterprises and circular economy this multi volume book is ideally designed for business executives business and marketing professionals business managers academicians and researchers actively involved in the business industry **Computational Intelligence Techniques for Green Smart Cities** Mohamed Lahby, Ala Al-Fuqaha, Yassine Maleh, 2022-04-22 This book contains high quality and original research on computational intelligence for green smart cities research In recent years the use of smart city technology has rapidly increased through the successful development and deployment of Internet of Things IoT architectures The citizens quality of life has been improved in several sensitive areas of the city such as transportation buildings health care education environment and security thanks to these technological advances Computational intelligence techniques and algorithms enable a computational analysis of enormous data sets to reveal patterns that recur This information is used to inform and improve decision making at the municipal level to build smart computational intelligence techniques and sustainable cities for their citizens Machine intelligence allows us to identify trends patterns The smart city could better integrate its transportation network for example By offering a better public transportation network adapted to the demand we could reduce personal vehicles and energy consumption A smart city could use models to predict the consequences of a change such as pedestrianizing a street or adding a bike lane A city can even create a 3D digital twin to test hypothetical projects This book comprises many state of the art contributions from scientists and practitioners working in machine intelligence and green smart cities It aspires to provide a relevant reference for students researchers engineers and professionals working in this area or those interested in grasping its diverse facets and exploring the latest advances in machine intelligence for green and sustainable smart city applications *Multi-criteria Decision-Making Approaches to Sustainable Consumption and Production* Rui Zhao, 2025-04-22 This book applies multi criteria decision making MCDM approaches to facilitate sustainable consumption and production Sustainable consumption and production not only focuses on the economic prosperity but also pays great attention to environmental protection and social justice in order to promote sustainable development In such context most material can be deemed as hazardous at any stage of their lifecycle i e from extraction to final disposal because of its quantity concentration or physical chemical or infectious characteristics may cause or pose a substantial or potential hazard to human health or the environment Through

the application of system theory game theory optimization theory as well as various computational approaches this book helps engineers policy makers to identify solutions or mitigation strategies to reduce environmental impact associated with consumption and production It is essential reading for students researchers policy makers as well as those with a wider interest in environmental science and sustainable development

Sustainable Production and Logistics Eren

Ozceylan,Surendra M. Gupta,2021-04-29 Sustainable Production and Logistics Modeling and Analysis Subject Guide

Engineering Industrial Manufacturing This book presents issues faced by planners of production and distribution operations in terms of smart manufacturing and sustainability using efficient quantitative techniques in a variety of decision making situations Addressing the state of the art of the smart and sustainable sides of production and distribution planning operations it highlights how a current issue can be effectively approached and what particular quantitative technique can be used The book goes on to provide a foundation in the new and fast growing digital journey and includes logistics 4 0 inside Industry 4 0 along with case studies The information in this book is useful worldwide especially in the Americas Europe Turkey and Japan It is written for academicians researchers practitioners and students

Logistics Operations, Supply Chain Management and Sustainability Paulina Golinska,2014-06-10

The aim of this book is to present qualitative and qualitative aspects of logistics operations and supply chain management which help to implement the sustainable policy principles in the companies and public sector s institutions Authors in individual chapters address the issues related to reverse network configuration forward and reverse supply chain integration CO2 reduction in transportation improvement of the production operations and management of the recovery activities Some best practices from different countries and industries are presented This book will be valuable to both academics and practitioners wishing to deepen their knowledge in the field of logistics operations and management with regard to sustainability issues

AI Applications for Business, Medical, and Agricultural Sustainability Naim, Arshi,2024-03-07

Climate change natural resource depletion and unsustainable agricultural practices pose unprecedented challenges to our planet The increasing environmental footprint of computer networks communication systems and other IT infrastructures exacerbates these issues contributing significantly to energy consumption and greenhouse gas emissions Without innovative solutions these challenges will continue to escalate threatening the sustainability of our planet for future generations AI Applications for Business Medical and Agricultural Sustainability offers a comprehensive solution by harnessing the power of Artificial Intelligence AI and High Performance Computing HPC This book is ideal for educators environmentalists industry professionals researchers and academics By introducing new energy models algorithms and methodologies the book provides a roadmap for developing next generation computing and communication infrastructures that are environmentally sustainable

Handbook of Research on Interdisciplinary Approaches to Decision Making for Sustainable Supply Chains Awasthi, Anjali,Grzybowska,

Katarzyna,2019-09-27 Businesses must create initiatives and adopt eco friendly practices in order to adhere to the

sustainability goals of a globalized world Recycling product service systems and green manufacturing are just a few methods businesses use within a sustainable supply chain However these tools and techniques must also ensure business growth in order to remain relevant in an environmentally conscious world The Handbook of Research on Interdisciplinary Approaches to Decision Making for Sustainable Supply Chains provides interdisciplinary approaches to sustainable supply chain management through the optimization of system performance and development of new policies design networks and effective reverse logistics practices Featuring research on topics such as industrial symbiosis green collaboration and clean transportation this book is ideally designed for policymakers business executives warehouse managers operations managers suppliers industry professionals sustainability developers decision makers students academicians practitioners and researchers seeking current research on reducing the environmental impacts of businesses via sustainable supply chain planning

The Perception of Quality George N. Kenyon, 2025-09-30 Exploring the concept of quality management from a new point of view this book now in an expanded second edition presents a holistic model of how consumers judge the quality of products It links consumer perceptions of quality to the design and delivery of the final product and presents models and methods for improving the quality of these products and services It offers readers an improved understanding of how and why the design process must consider how the consumer will perceive a product or service In order to facilitate the presentation and understanding of these concepts illustrations and case examples are also provided throughout the book This updated and enlarged volume provides an invaluable resource for managers designers manufacturers professional practitioners and academics interested in quality management The book also offers a useful supplementary text for marketing and quality management courses

Enhancing Sustainable Performance With Low-Carbon Supply Chains Bensfia, Chafik, Bentalha, Badr, Alla, Lhoussaine, 2025-07-31 Building low carbon supply chains becomes critical for organizations enhancing sustainable performance in a climate conscious world As global pressure increases to reduce greenhouse gas emissions businesses rethink traditional supply chain models to prioritize energy efficiency renewable resources and circular economy principles Low carbon supply chains help companies meet regulatory requirements and environmental goals while driving innovation reducing operational costs and strengthening brand value By integrating sustainability into every part of the supply chain organizations can create resilient future ready operations that balance profitability with environmental responsibility Enhancing Sustainable Performance With Low Carbon Supply Chains explores the integration of intelligence and sustainability in supply chains It examines the latest technological organizational and regulatory developments in supply chains addressing barriers to technological integration and changes in global trade This book covers topics such as green logistics transportation management and decarbonization and is a useful resource for business owners climatologists engineers academicians researchers and environmental scientists

Green Innovations for Industrial Development and Business Sustainability Ravindra Sharma, Geeta Rana, Shivani Agarwal, 2024-06-13 Focusing on

the business implications of green innovation this book describes the sheer impact spread and opportunities arising every day and how business leaders can implement green innovative practices today to realize tangible as well as intangible business advantages in the future Green Innovations for Industrial Development and Business Sustainability Models and Implementation Strategies works as a guide for green innovation that focuses on enterprise applications for those tasked with leveraging green practice adoption to enhance the productivity of their organization The book offers the ability to understand the latest developments in green innovations and their business applications along with their implications in various domains from manufacturing to marketing Front line decision makers can use this book as a practical guide for capitalizing on the latest green practices adoptions and transformations Researchers business leaders postgraduate and graduate students will find this book useful with its presentation of state of the art research together with the current and future challenges of building green practice models and applications for organization and business operations

Management of Electronic Waste Anshu Priya,2023-12-13 MANAGEMENT OF ELECTRONIC WASTE Holistic view of the current and future trends in electronic waste management focusing on recycling technologies and regulations Management of Electronic Waste delivers a complete overview of all aspects related to the toxicity characterization of electronic wastes along with other important topics including resource recovery recycling strategies biotechnological advancements and current perspectives on waste generation and management The book presents hazards associated with conventional recycling methods and highlights environmentally compatible economic approaches for resource recovery along with eco friendly strategies for management of electronic wastes The high metallic content heterogeneous and composite nature of e wastes make them a rich secondary reservoir of metals The book explores the valuable potential of e waste and highlights the eco friendly sustainable technologies and recycling strategies for the profitable and effective conversion of waste to wealth Written by a highly qualified and internationally renowned author Management of Electronic Waste covers sample topics such as Rise of e waste generation paired with rising economies and mounting demand for electrical and electronic devices with a country by country breakdown Status of e waste management and recycling efforts around the world along with key processes that drive e waste recycling Macroeconomic trends between global demand and supply for metal resources and the transition of linear to circular economy Bioleaching an economic and green approach for recovery of metals from e waste and other low grade metal repositories Different metallurgical approaches for extraction and recovery of resources from e waste and their pros and cons Filling a gap on the understudied biotechnological recycling techniques and methods for mitigating environmental pollution caused by electronic waste Management of Electronic Waste serves as an excellent guide on the subject for electronic waste producers consumers recycling industries policy and law makers academicians and researchers

Sustainable Digital Technology and Ethics in an Ever-Changing Environment Muneer Al Mubarak,2025-08-02 Digital technology contributes to sustainability as it positively impacts society and

environment improves efficiency and minimizes waste. It is best functioned when ethics in technology and privacy are fully considered. Digital ethics deals with the impact of digital information on societies and the environment. Issues that are of concern include privacy, information overload, Internet addiction, and robotics. Digital ethics pays special attention to developing rules and moral guidelines that individuals and companies should follow when interacting with technology. Digital ethics gives guidelines on what is the right thing to do and wrong thing to avoid. No doubt that the emergence of digital technologies such as IoT and AI can improve people's life and organizations' efficiency but should be appropriately governed. Today's society places a growing emphasis on sustainability and digital technologies as they are essential to attaining sustainable development. Digital technologies can be used to lessen negative environmental impact, conserve resources, and create communities that are more resilient. Digital technologies can help to promote sustainability through the utilization of renewable energy sources. Sustainable environmental practices can benefit from the transition to digital technology revolution. Sustainability solutions are developed and put into practice using a variety of technologies including AI, big data, analytics, IoT, social media, as well as mobile technology. To discover infections that occur in the river systems, for instance, smart water management systems use an AI-based technology. Data obtained from such technologies may be used to analyze the problem of water contamination and create and execute remedies. Additionally, through lowering waste and carbon emissions, AI, IoT, and Big Data analytics technologies improve the sustainability of corporate activities. Technology is an essential aspect of modern life and it has transformed the way people communicate, work, and interact with each other drastically over the last few decades. While technology has brought many benefits, it has also created ethical challenges. Technology ethics is a field of study that seeks to understand and address the ethical challenges posed by the advancement and development of technology.

Reverse Supply Chains Surendra M. Gupta, 2016-04-19 Winner of IIE Book of the Month December 2013. The introduction of reverse supply chains has created many challenges in network design, transportation, selection of used products, selection and evaluation of suppliers, performance measurement, marketing-related issues, end of life (EOL), alternative selection, remanufacturing, disassembly, and product recovery. *Logistics Development* Peter Kacmary, Gabriel Fedorko, 2014-12-17. Selected peer-reviewed papers from the Scientific Cooperating Regions within the Carpathian region.

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table of content next page enhancement adds code to the application data classes to integrate them with jdo as a result of enhancement the enhanced class implements the persistencecapable interface when jdo acts on an application data object it acts on it as a persistencecapable object

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object fields are accessed by their name you must use a name that is unambiguous you may use a simple name for a field within its own class for example we can add a statement within the rectangle class that prints the width and height system out println width and height are width height in this case width and height are

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using transient application data objects and objects of classes that are not persistence capable for parameter values is not portable across jdo implementations declaring the query s variables the query interface provides a method to declare

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in order to provide persistent services for the application s data objects jdo must manage the objects within a java virtual machine jvm jdo manages some objects and does not manage other objects if jdo manages an object it manages its persistent state or its transactional state or both

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managers using a persistence manager the application can control the life cycle and caching of application data objects it can get the identity object for a persistent application data object and it can later fetch the persistent object that corresponds to an identity object finally the persistence manager interface has factory methods

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