

A Macro Environmental Analysis Of Reverse Logistics

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Sustainable Logistics and Supply Chain Management (Revised Edition) - David B. Grant 2015-03-03
Sustainable Logistics and Supply Chain Management is the essential guide to the principles and practices of sustainable logistics operations and the responsible management of the entire supply chain. Based on

extensive research by experts in the field, this comprehensive book covers the whole scope of sustainable logistics. The book provides carefully reviewed research-led applications and case studies that have been especially developed for this revised edition with particular attention for use in a teaching context. The mini case studies are highly topical, relating the

theoretical concepts to practice and what is actually happening 'on the ground'. Examining the subject in an integrated manner, this book examines all the key areas in sustainable logistics and supply chain management, including: sustainable product design and packaging; sustainable purchasing and procurement; cleaner production; environmental impact of freight transport; sustainable warehousing and storage; sustainable supply management; reverse logistics and recycling; supply chain management strategy, and much more. The book provides an excellent insight into the topic that will help managers, students, and scholars grasp the fundamentals of green supply and logistics management. This revised edition of Sustainable Logistics and Supply Chain Management includes valuable supporting online materials, including PPT presentations, chapter summaries, learning objectives, tips for teaching and in class activities.

Information Technology in Environmental Engineering

- Burkhardt Funk 2013-09-14
Information technologies have evolved to an enabling science for natural resource management and conservation, environmental engineering, scientific simulation and integrated assessment studies. Computing plays a significant role in the every day practices of environmental engineers, natural scientists, economists, and social scientists. The complexity of natural phenomena requires interdisciplinary approaches, where computing science offers the infrastructure for environmental data collection and management, scientific simulations, decision support, documentation and reporting. Ecology, environmental engineering and natural resource management comprise an excellent real-world testbed for IT system demonstration, while presenting new challenges for computer science. Complexity, uncertainty and scaling issues of natural systems constitute a

demanding application domain for modelling, simulation and scientific workflows, data management and reporting, decision support and intelligent systems, distributed computing environments, geographical information systems, heterogeneous systems integration, software engineering, accounting systems, control systems, as well as sustainable manufacturing and reverse logistics. This books offers a collection of papers presented at the 6th International Conference on Environmental Engineering, held in July 2013, in Lüneburg, Germany. Recent success stories in ecoinformatics, promising ideas and new challenges are discussed among computer scientists, environmental engineers, industrial engineers, economists and social scientists, demonstrating new paradigms for problem solving and decision making.

Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient

Production Systems -

Alexandre Dolgui 2021-09-01

The five-volume set IFIP AICT 630, 631, 632, 633, and 634 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2021, held in Nantes, France, in September 2021.* The 378 papers presented were carefully reviewed and selected from 529 submissions. They discuss artificial intelligence techniques, decision aid and new and renewed paradigms for sustainable and resilient production systems at four-wall factory and value chain levels. The papers are organized in the following topical sections: Part I: artificial intelligence based optimization techniques for demand-driven manufacturing; hybrid approaches for production planning and scheduling; intelligent systems for manufacturing planning and control in the industry 4.0; learning and robust decision support systems for agile

manufacturing environments; low-code and model-driven engineering for production system; meta-heuristics and optimization techniques for energy-oriented manufacturing systems; metaheuristics for production systems; modern analytics and new AI-based smart techniques for replenishment and production planning under uncertainty; system identification for manufacturing control applications; and the future of lean thinking and practice Part II: digital transformation of SME manufacturers: the crucial role of standard; digital transformations towards supply chain resiliency; engineering of smart-product-service-systems of the future; lean and Six Sigma in services healthcare; new trends and challenges in reconfigurable, flexible or agile production system; production management in food supply chains; and sustainability in production planning and lot-sizing Part III: autonomous robots in delivery logistics; digital transformation approaches in production

management; finance-driven supply chain; gastronomic service system design; modern scheduling and applications in industry 4.0; recent advances in sustainable manufacturing; regular session: green production and circularity concepts; regular session: improvement models and methods for green and innovative systems; regular session: supply chain and routing management; regular session: robotics and human aspects; regular session: classification and data management methods; smart supply chain and production in society 5.0 era; and supply chain risk management under coronavirus Part IV: AI for resilience in global supply chain networks in the context of pandemic disruptions; blockchain in the operations and supply chain management; data-based services as key enablers for smart products, manufacturing and assembly; data-driven methods for supply chain optimization; digital twins based on systems engineering and semantic

modeling; digital twins in companies first developments and future challenges; human-centered artificial intelligence in smart manufacturing for the operator 4.0; operations management in engineer-to-order manufacturing; product and asset life cycle management for smart and sustainable manufacturing systems; robotics technologies for control, smart manufacturing and logistics; serious games analytics: improving games and learning support; smart and sustainable production and supply chains; smart methods and techniques for sustainable supply chain management; the new digital lean manufacturing paradigm; and the role of emerging technologies in disaster relief operations: lessons from COVID-19 Part V: data-driven platforms and applications in production and logistics: digital twins and AI for sustainability; regular session: new approaches for routing problem solving; regular session: improvement of design and operation of manufacturing

systems; regular session: crossdock and transportation issues; regular session: maintenance improvement and lifecycle management; regular session: additive manufacturing and mass customization; regular session: frameworks and conceptual modelling for systems and services efficiency; regular session: optimization of production and transportation systems; regular session: optimization of supply chain agility and reconfigurability; regular session: advanced modelling approaches; regular session: simulation and optimization of systems performances; regular session: AI-based approaches for quality and performance improvement of production systems; and regular session: risk and performance management of supply chains

*The conference was held online.

[A Focus on Sustainable Supply Chains and Green Logistics](#) - Emerald Group Publishing Limited 2015-10-30

In a fast moving world the

transportation of goods is expected to be more efficient than ever before. This compendia features papers that address key themes in green logistics such as benchmarking and energy efficiency and includes highly cited papers from international contributors such as Alan McKinnon and Joseph Sarkis.

Global Logistics - C. Donald J. Waters 2007

The field of logistics is developing at a remarkable pace and its role is now integral to the long term plans of almost all businesses. Communications and IT are offering ever more opportunities; world trade is growing; new markets are developing; yet at the same time there is increasing concern for the environment. The world of logistics is constantly evolving in response to these changes. In the same way, the fifth edition of this established book has evolved to represent the current trends, best practice and latest thinking on global logistics. It serves as a forum allowing the

contributors, a range of acknowledged sector specialists, to discuss key logistics issues and give their authoritative views.

Sustainable Value Chain Management - François Maon 2016-04-01

The way organizations manage their value chain has changed dramatically over the past decade. Today, organizations take account of economic issues, but they also adopt a broader perspective of their purpose including social and environmental issues. Yet despite its global spread, sustainable value chain management remains an uncertain and poorly defined ambition, with few absolutes. The social and environmental issues that organizations should address easily can be interpreted as including virtually everything. Current literature on the topic seeks to understand the effects and management of initiatives dealing with diversity, human rights, safety, philanthropy, community, and environment. However, the penetration of

social and environmental considerations into value chain management is described as 'desire lacking reality' thereby making the idea a patchy success. The objective of this research anthology is to investigate different angles of sustainable value chain management. The book's 27 chapters fill holes and explore new fields; the chapters are organised in five sections: Sustainable value chains - context, drivers, and barriers; Sustainable value chains - managing activities; Sustainable value chains - managing networks and collaboration; Sustainable value chains - integrative perspectives; and Sustainable value chains - specific sectorial and industry perspectives.

The Routledge Companion to Lean Management -

Torbjorn H. Netland

2016-12-08

Interest in the phenomenon known as "lean" has grown significantly in recent years. This is the first volume to provide an academically rigorous overview of the field

of lean management, introducing the reader to the application of lean in diverse application areas, from the production floor to sales and marketing, from the automobile industry to academic institutions. The volume collects contributions from well-known lean experts and up-and-coming scholars from around the world. The chapters provide a detailed description of lean management across the manufacturing enterprise (supply chain, accounting, production, sales, IT etc.), and offer important perspectives for applying lean across different industries (construction, healthcare, logistics). The contributors address challenges and opportunities for future development in each of the lean application areas, concluding most chapters with a short case study to illustrate current best practice. The book is divided into three parts: The Lean Enterprise Lean across Industries A Lean World. This handbook is an excellent

resource for business and management students as well as any academics, scholars, practitioners, and consultants interested in the "lean world." *Fundamentals of Marketing* - Geraldine McKay 2018-03-06 Introduces the key terms, concepts and practices to provide a firm foundation for undergraduate students. It discusses contemporary technologies used in marketing alongside established practices to develop an understanding of the positive effects of marketing balanced with critical discussion about its contribution to the wider aims of society.

22nd European Symposium on Computer Aided Process Engineering - David Bogle 2012-08-03

Computer aided process engineering (CAPE) plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of

sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals. Contributions from the international community of researchers and engineers using computing-based methods in process engineering Review of the latest developments in process systems engineering Emphasis on a systems approach in tackling industrial and societal grand challenges [Vietnam at a Crossroads](#) - Claire Hollweg 2017-03-15 Vietnam is at a crossroads. It can grow as an export platform for GVCs, specializing in low value-added assembly functions with industrialization occurring in enclaves with little connection to the broader economy or society; or it can leverage the current wave of growth, enabled and accelerated by its successful participation in GVCs, to

diversify and move up the chain into higher value-added functions. Success will require Vietnam's policymakers to view the processes of development differently, and to take new realities of the global economy more fully into account. The purpose of this volume is to support Vietnam's path to economic prosperity by identifying policies and targeted interventions that will drive development through leveraging GVC participation that take major shifts in trade policy and rapid technological advances in ICT into account. The volume is based on a compilation of studies completed by World Bank staff and external consultants in 2015 supporting the "Enabling Economic Modernization and Private Sector Development" chapter of the Vietnam 2035 report. The objective of these studies was to diagnose Vietnam's current participation in GVCs, visualize where Vietnam could be by 2035 in the context of a changing global environment, and identify the policy actions

needed to get there. The studies also supported topics related more broadly to export competitiveness, including firm-level productivity, services, and connectivity. It then identifies targeted strategies and policy interventions that will help overcome challenges, minimize risks, and maximize opportunities. Readers will gain a strong understanding of Vietnam's current and potential engagement with GVCs—and will learn about strategic GVC policy tools that can help developing countries achieve economic prosperity in the context of compressed development.

Modeling for Sustainable Management in Agriculture, Food and the Environment -

George Vlontzos 2021-12-23

Recent developments in computer science, data mining and big data analytics have resulted in new operational frameworks in agriculture, food and the environment, which in fact, share a strong link between them. A key challenge for researchers is to extract

new data patterns and utilize them in decision making. Managers, policy makers, and practitioners have to be aware of these methodologies in order to establish efficient and effective working groups for the tasks to be resolved. The book reviews the complexity of the interrelationship between agriculture, food production and processing, and environmental issues. It also highlights the prospects of modeling in various cases of problem solving in these sectors, and reviews the new and future challenges. Consumer awareness in food production and processing practices is continually increasing and the necessity for advanced behavioural tools follows the same trend. Furthermore, the value chain management challenge is becoming one of the most crucial tasks due to the increased importance of new parameters like the origin of products, its environmental footprint and the enhancement of local production, etc. The book addresses these topics in

a holistic approach, merging modeling with advanced marketing practices in a coherent and innovative manner, being an effective tool in a continuously demanding world.

Supply Chain Management and Reverse Logistics -

Harald Dyckhoff 2013-06-05

The world of logistics has considerably changed due to globalization, modern information technology, and especially increasing ecological awareness. Large Supply Chain Management (SCM) systems are developing to global logistic networks. This book reflects major trends of the recent decade in SCM and, additionally, presents ideas and visions for logistic networks of the 21st century. Among the various aspects of SCM, emphasis is placed on reverse logistics: closing the loop of a supply chain by integrating waste materials into logistic management decisions.

Pathways to Supply Chain Excellence - Ales Groznik

2012-03-16

Over the last decade, supply

chain management has advanced from the warehouse and logistics to strategic management. Integrating theory and practices of supply chain management, this book incorporates hands-on literature on selected topics of Value Creation, Supply Chain Management Optimization and Mass-Customization. These topics represent key building blocks in management decisions and highlight the increasing importance of the supply chains supporting the global economy. The coverage focuses on how to build a competitive supply chain using viable management strategies, operational models, and information technology. It includes a core presentation on supply chain management, collaborative planning, advanced planning and budgeting system, risk management and new initiatives such as incorporating anthropometry into design of products.

Fashion Management -

Rosemary Varley 2018-10-30

This new textbook, authored by

a team of expert researchers and lecturers based at the London College of Fashion, is one of the first in the field to examine strategic management in the context of the fashion industry, catering specifically for students hoping to work in the sector. International in approach, the text covers all aspects of strategic management, from growth strategy and financial management to brand and supply chain management. Fashion Management's engaging style, page design and pedagogical framework makes it accessible to students at all levels, while the authors' extensive expertise ensures that the content is always underpinned by rigorous academic research. Established key topics and significant contemporary issues – such as sustainability, the digital, and corporate social responsibility – are considered from both a theoretical and practical perspective, with real-world examples drawn from high-profile, global fashion organisations. This is an ideal

core textbook for those studying on undergraduate and postgraduate degree courses in fashion management and fashion marketing. The book will also be an important supplementary resource for courses in marketing, retailing and business studies, with the fashion industry providing an effective context for students to engage with the application of theory. Accompanying online resources for this title can be found at

bloomsburyonlineresources.com/fashion-management. These resources are designed to support teaching and learning when using this textbook and are available at no extra cost.

Green Logistics - Alan McKinnon 2015-02-03

The transport, storage and handling of goods impose a heavy burden on the environment. As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Leading the way in current

thinking on environmental logistics, *Green Logistics* provides a unique insight on the environmental impacts of logistics and the actions that companies and governments can take to deal with them. It is written by a group of leading researchers in the field and provides a comprehensive view of the subject for students, managers and policy-makers. Fully updated and revised, the 3rd Edition of *Green Logistics* takes a more global perspective than previous editions. It introduces new contributors and international case studies that illustrate the impact of green logistics in practice. There is a new chapter on the links between green logistics and corporate social responsibility (CSR) and a series of postscripts examining the likely effects of new developments, such as 3D printing and distribution by drone, on the environmental footprint of logistics. Other key topics examined in the book include: carbon auditing of supply chains; transferring freight to greener transport

modes; reducing the environmental impact of warehousing; improving the energy efficiency of freight transport; making city logistics more environmentally sustainable; reverse logistics for the management of waste; role of government in promoting sustainable logistics

Ideal for use on related courses, the 3rd Edition of Green Logistics includes indispensable online supporting materials, including graphics, tables and chapter summaries, as well as technical information and guidelines for teachers and lecturers. The book is endorsed by the Chartered Institute of Logistics and Transport (CILT).

Global Value Chains, Flexibility and Sustainability

- Julia Connell 2018-05-04

This book provides a conceptual framework of global value chains, flexibility and sustainability, supported by research projects, case applications and models in various related areas organized into three parts. In the first part of the book, various

authors discuss how to improve the efficiency and effectiveness of global value chains through various types of analyses.

While the focus is on cluster management, and mergers and joint ventures, the legal aspects of control and liability concerning the integration of value chains, is also examined in one of the contributions. The second part includes chapters concerning 'Strategy and Flexibility'. Strategies concern topics such as inventory management, talent management, strategic alignment, decision making, behavioural change and HR systems. The third and final part of the volume concerns the topic of 'Sustainability', wherein the contributions focus on various initiatives intended to promote sustainability across respective value chains bearing in mind the concept of flexibility. The book is a valuable resource for a varied audience, ranging from management students and researchers, to practicing business managers, as well as for professional institutions,

consultants, and corporate organizations.

Strategic Sustainability -

Robert Sroufe 2017-09-08

The last decade has seen increasing awareness of the importance of understanding corporate environmental management systems (EMSs) and their relationships with sustainability, competitiveness and institutional practice. It is now assumed that most large companies have some version of an EMS in place with systems ranging from informal policies and practices to formalised third-party certified systems that are widely publicized by companies and are now integral to their strategic direction. No matter what level and type of system a firm chooses, both practitioners and researchers wish to examine and better understand the extent to which these systems are cross-functional, how they impact on performance evaluation, their capability to monitor supply chains and the life-cycles of products and services and, most importantly, whether

these systems actually make a contribution to better environmental performance. This book provides intriguing insights into strategic and sustainable EMSs. It provides clear evidence of benefits that should exceed the costs (tangible and otherwise), and help practitioners understand the attributes of well-developed and strategically focused EMSs. It also demonstrates the link to performance measures such as reputation, improved position in the marketplace, cost, quality, waste reduction and numerous sustainable development-based metrics and issues. The comprehensive scope of topics spans several industries and provides environmental systems insight involving sustainable management systems, strategic and operational impacts of environmental systems, cross-country comparisons of EMS design processes and results, product-based environmental systems, EMS impacts at innovative organisations and environmental systems integration within specific

industries. The book is split into three sections. First, the book covers the broad issues of planning and designing an EMS and includes topics such as performance evaluation, comparisons between multinational environmental systems, sustainable development and links between already established quality systems and an EMS. The second section focuses on EMS implementation and operation and incorporates some corporate or industry-specific case studies. The third and final category of the book highlights the use of an EMS to evaluate business processes. Strategic Sustainability will be essential reading for both managers faced with decisions regarding their own EMSs and to researchers seeking additional insights from state-of-the-art examples for further theoretical development and testing.

[Handbook of Research on Social Entrepreneurship and Solidarity Economics](#) - Saiz-Álvarez, José Manuel
2016-05-19

Education programs in social entrepreneurship helps to create and fill jobs devoted to developing the local economy, which has become a dual transfer strategy by which a virtuous circle occurs between a retrofitted educational system based on social entrepreneurship, and vocational students who are highly entrepreneurial. The Handbook of Research on Social Entrepreneurship and Solidarity Economics focuses on practical experience and theoretical models for popularizing the concept of social entrepreneurship as a critical element of economic growth. Emphasizing the ways in which social entrepreneurship benefits developing regions, small and medium enterprises, and low-income communities, this handbook of research is a pivotal reference source for professionals, academics, and graduate-level students in the fields of economics, business administration, sociology, education, politics, and international relations.

Assessing the Effects of Emerging Plastics on the Environment and Public Health - Joo, Sung Hee

2022-06-03

Plastic pollution has been a growing concern globally, especially under the COVID-19 pandemic due to the use of personal protective equipment. While many engineers and environmental scientists have been addressing global plastic pollution, special attention must also be paid to smaller plastics such as micro- and nano-plastics. These smaller plastics pollute and affect the health of the public, environment, and marine life. Risk assessment of plastics is required to evaluate currently available treatment technologies and identify the significance of plastic pollution. *Assessing the Effects of Emerging Plastics on the Environment and Public Health* assesses the harmful effects of plastics on the environment and public health. It evaluates the potential risks of micro- and nano-plastics and reviews applications of modeling tools

and prevention approaches using technologies to minimize plastic pollution through the development of biodegradable plastics or recycling and reusing plastics in environmentally friendly ways. Covering topics such as agroecosystems, preventive measures, and bioplastics, this book is an indispensable resource for environmentalists, environmental engineers, government officials, libraries, business leaders, students and educators of higher education, academicians, and researchers.

Railway Transport Planning and Manageme - Stefano de Luca 2022-06-28

Railway engineering is facing different and complex challenges due to the growing demand for travel, new technologies, and new mobility paradigms. All these issues require a clear understanding of the existing technologies, and it is crucial to identify the real opportunities that the current technological revolution may pose. As railway transportation planning processes change and pursue a

multi-objective vision, diagnostic and maintenance issues are becoming even more crucial for overall system performances and alternative fuel solutions.

Next Generation Supply Chains - Rosanna Fornasiero
2020-12-31

This open access book explores supply chains strategies to help companies face challenges such as societal emergency, digitalization, climate changes and scarcity of resources. The book identifies industrial scenarios for the next decade based on the analysis of trends at social, economic, environmental technological and political level, and examines how they may impact on supply chain processes and how to design next generation supply chains to answer these challenges. By mapping enabling technologies for supply chain innovation, the book proposes a roadmap for the full implementation of the supply chain strategies based on the integration of production and logistics processes. Case studies from

process industry, discrete manufacturing, distribution and logistics, as well as ICT providers are provided, and policy recommendations are put forward to support companies in this transformative process.

Proceedings of the Sixteenth International Conference on Management Science and Engineering Management - Volume 1 - Jiuping Xu
2022-08-14

This book covers many hot topics, including theoretical and practical research in many areas such as dynamic analysis, machine learning, supply chain management, operations management, environmental management, uncertainty, and health and hygiene. It showcases advanced management concepts and innovative ideas. The 16th International Conference on Management Science and Engineering Management (2022 ICMSEM) will be held in Ankara, Turkey, during August 3-6, 2022. ICMSEM has always been committed to promoting innovation management

science (M-S) and engineering management (EM) academic research and development. The book provides researchers and practitioners in the field of Management Science and Engineering Management (MSEM) with the latest, cutting-edge thinking and research in the field. It will appeal to readers interested in these fields, especially those looking for new ideas and research directions.

Advanced Integrated Approaches to Environmental Economics and Policy: Emerging Research and Opportunities - Patti,

Sebastiano 2019-10-11

Sustainable development remains a significant issue in a globalized world requiring new economic standards and practices for the betterment of the environment as well as the world economy. However, sustainable economics must manage environmental solutions to issues on multiple levels and within various disciplines. There is a need for studies that seek to understand how environmental economics

and governance within small and large sectors affect the capability and wellbeing of the global economy. *Advanced Integrated Approaches to Environmental Economics and Policy: Emerging Research and Opportunities* is an essential publication that focuses on the strategic role of environmental issues within the global economy. While highlighting topics such as complementary currency, reusable waste, and urban planning, this book is ideally designed for policymakers, environmental lawyers, economists, sociologists, politicians, academicians, researchers, and students seeking current research on increasing an organization's sustainable performance at both public and private levels.

Port Operations, Planning and Logistics - Khalid Bichou
2014-04-16

A comprehensive and detailed analysis of world port systems through applying both theoretical and practical (managerial) approaches to port operations, management

and policy.

Advanced Hybrid Information Processing - Shuai Liu

2021-02-02

This two-volume set constitutes the post-conference proceedings of the 4th EAI International Conference on Advanced Hybrid Information Processing, ADHIP 2020, held in Binzhou, China, in September 2020. Due to COVID-19 the conference was held virtually. The 89 papers presented were selected from 190 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application. The theme of ADHIP 2020 was “Industrial applications of aspects with big data”. The papers are named in topical sections as follows: Industrial application of multi-modal information processing; Industrialized big data processing; Industrial automation and intelligent control; Visual information processing.

Pesticides - Graham Matthews
2016-01-13

Crop protection continues to be an important component of modern farming to maintain food production to feed an expanding human population, but considerable changes have occurred in the regulation of pesticides in Europe in the last decade. The aim has been to reduce their impact on people and the environment. This has resulted in a major reduction in the number of chemicals approved for application on crops. In other parts of the world, a continuing expansion in the growing of genetically modified crops has also changed the pattern of pesticide use. In this second edition, Graham Matthews, updates how pesticides are registered and applied and the techniques used to mitigate their effects in the environment. Information on operator safety, protection of workers in crops treated with pesticides and spray drift affecting those who live in farming areas is also discussed. By bringing together the most recent research on pesticides in a single volume, this book

provides a vital up to date resource for agricultural scientists, agronomists, plant scientists, plant pathologists, entomologists, environmental scientists, public health personnel, toxicologists and others working in the agrochemical industry and governments. It should assist development of improvements in harmonising regulation of pesticides in countries with limited resources for registration of pesticides.

Greener Manufacturing and Operations - Joseph Sarkis
2017-09-20

This timely work examines one core corporate function that has a profound and direct impact on corporate environmental performance - manufacturing and operations. This area has been of concern in recent years to researchers and practitioners in fields ranging from the social and natural sciences to management and technical engineering. The book reflects this diversity with global contributions on topics such as design for the environment,

total quality environmental management, green supply chains, reverse logistics, environmental management systems and standards, industrial ecology, closed-loop manufacturing, life-cycle management, pollution prevention (P2), environmental technologies and energy efficiency. The aim and scope of Greener Manufacturing and Operations is to capture state-of-the-art and future practices in environmental manufacturing and operations practices and issues in one concise volume. The book is therefore a fluid mix of case studies, empirical research, and applied theoretical works incorporating both conceptual ideas whose time will come to practical applications which managers and practitioners can apply immediately. Comprehensive in its coverage of the key issues, contributions range from a focus on the internal operations of a single function within an organization to a consideration of industrial manufacturing practices from a macro-economic level. A

number of levels of decision-making are also represented: from long-term strategic issues such as supply chain design, to traditional short-term operations decision-making and planning issues such as production planning. Many of the principles developed and presented here can also be extended to the more general process management of service organizations. The book is organized into four major sections: operations strategy and policy; manufacturing and operations practice; tools for managing greener operations and manufacturing; and, finally, case studies. Greener Manufacturing and Operations will be an essential aid for managers, engineers, students, researchers, and consultants wishing to understand the various issues, principles, and tools for managing the operations and manufacturing function in a more environmentally-benign and sustainable manner.

Handbook of Research on Driving Transformational Change in the Digital Built

Environment - Underwood, Jason 2021-05-07

The construction industry is amidst a digital transformation that is focused on addressing well-documented issues and calls for significant improvements and changes through increased productivity, whole-life value, client focus, reduction of waste, and being more sustainable. The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities. Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements. The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment. This book provides insight, from a practice perspective, in relation to the client's

understanding, digitally enabled collaboration, interoperability and open standards, and maturity/capability. Covering topics that include digital transformation and construction, digitally enabled infrastructure, building information modelling, collaborative digital education, and the digital built environment, this book is an ideal reference source for engineers, professionals, and researchers in the field of digital transformation as well as doctoral scholars, doctoral researchers, professionals, and academicians.

International Symposium on Motor Carrier Transportation, Williamsburg, Virginia, May 31-June 4, 1993 - National Research Council (U.S.). Transportation Research Board 1994

The purpose of the Transportation Research Board (TRB) Symposium on Motor Carrier Transportation was to provide a forum for an international audience on motor carrier transportation

issues involving government policy makers and regulators, researchers, academia, and representatives of the large truck goods industry, including suppliers, manufacturers, and motor carriers. The symposium focused on a wide range of technical, economic, safety, and environmental issues, as well as on the opportunities for greater efficiency and productivity for the motor carrier transportation community into the 21st century. The symposium was intended to foster productive communication among groups representing various disciplines in the private and public sectors whose problems and issues related to the motor carrier industry often conflict or coincide.

Supply Chain Sustainability in Small and Medium Sized Enterprises - Prasanta Kumar Dey 2022-09-29

This book examines the sustainability of supply chains in small and medium sized enterprises (SMEs), in developed and emerging economies. Drawing on

contributions from experts in the field and examining case studies from a range of countries, including Thailand, Bangladesh, France, Spain, Austria and Greece, this book provides researchers and industry practitioners with guidance on how to make SMEs more sustainable through appropriate trade-offs between economic, environmental and social aspects. Over the course of the book, the authors examine the current state of sustainable supply chain practices, highlight the key issues and challenges, and identify critical success factors across different industries and geographical locations. They also explore how supply chain carbon footprints and effectiveness are measured, and navigate the delicate balance between reducing the carbon footprint whilst still ensuring enhanced productivity. Finally, the book reflects on how the circular economy model might facilitate higher sustainability of SMEs. Supply Chain Sustainability in Small and Medium Sized

Enterprises will be of great interest to scholars and practitioners of supply chain management and sustainable business.

Food Supply Chain

Management - Michael A.

Bourlakis 2008-04-15

Food Supply Chain

Management Edited by

Michael A. Bourlakis and Paul

W. H. Weightman The food

supply chain is a series of links

and inter-dependencies, from

farms to food consumers'

plates, embracing a wide range

of disciplines. Food Supply

Chain Management brings

together the most important of

these disciplines and aims to

provide an understanding of

the chain, to support those who

manage parts of the chain and

to enhance the development of

research activities in the

discipline. Food Supply Chain

Management follows a 'farm to

fork' structure. Each chapter

starts with aims and an

introduction and concludes

with study questions that

students in particular will find

useful. Topics covered include

the food consumer, perceived

risk and product safety, procurement, livestock systems and crop production, food manufacture, retailing, wholesaling and catering. Special consideration is also given to supermarket supply networks, third party logistics, temperature controlled supply chains, organic foods and the U. S. food supply chain. A final chapter looks at the future for food supply chain management. Michael Bourlakis and Paul Weightman, the editors and contributors to this timely and fascinating book, have drawn together chapters from leading authorities in this important area, to provide a book that is an essential purchase for all those involved in the supply of food and its study. Those involved in the food supply chain within food companies and in academic establishments, including agricultural scientists, food scientists, food technologists, and students studying these subjects, will find much of great use and interest within its covers. Libraries in all universities and research

stations where these subjects are studied and taught should have several copies. Dr Bourlakis and Dr Weightman teach and research at the School of Agriculture, Food and Rural Development, University of Newcastle upon Tyne, U. K. Also available from Blackwell Publishing The Microbiological Risk Assessment of Food S. Forsythe 0 632 05952 4 HACCP S. Mortimore & C. Wallace 0 632 05648 7 Listeria, 2nd edition C. Bell & A. Kyriakides 1 405 10618 2 Salmonella C. Bell & A. Kyriakides 0 632 05519 7 International Journal of Food Science & Technology Published 10 times per year ISSN 0950-5423 Metal Contamination of Food, 3rd edition C. Reilly 0 632 05927 3

Proceedings of the International Conference Engineering Innovations and Sustainable Development - S. I. Ashmarina
This book contains contributions from the international conference "Engineering Innovations and

Sustainable Development," organized by three Russian universities on June 17-18, 2021. By presenting international research on various sustainability issues, it includes topics such as current trends in industrial and agricultural development, innovations in the construction and transport sectors, problems concerning the financing of innovative activities and governmental support for innovations, and engineering competences and skills in the era of new technologies. It also covers the economic, environmental, and informational aspects of sustainable development in the context of innovations. Finally, the book addresses theoretical and practical aspects by studying the phenomenon of sustainability and engineering development in terms of comparing international experiences. It provides significant value for scientists, teachers, and students of higher educational institutions, and specialists, who are researching sustainable

development issues in the era of engineering innovations. Quality Management in Reverse Logistics - Yiannis Nikolaidis 2012-10-08 Quality Management in Reverse Logistics intends to develop, collect, examine and evaluate a number of quality management (QM) tools and techniques, which can be applied in practice in order to understand, review and improve any closed-loop supply chain process. In other words, the book aims to examine the existing relationship between various well-developed and thoroughly studied quality issues, such as QM, quality assurance, standardization of processes and statistical quality control and the emerging research area of reverse logistics. Quality Management in Reverse Logistics contains modeling and quantitative methods that could be used by practitioners and academics in the reverse logistics industry, as well as a thorough description of QM tools and techniques. The book leads the potential reader to

broaden their scope of thinking and acting in the new, promising area of reverse logistics, where QM can be applied.

Intelligent Systems in Production Engineering and Maintenance - Anna Burduk
2018-07-31

The book presents a collection of 103 peer-reviewed articles from the Second International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPEM 2018). The conference was organized by the Faculty of Mechanical Engineering and CAMT (Centre for Advanced Manufacturing Technologies), Wrocław University of Science and Technology and was held in Wrocław (Poland) on 17–18 September 2018. The conference topics included the possibility of using a wide range of intelligent methods in production engineering, presenting and discussing new solutions for innovative plants, research findings and case studies demonstrating advances in production and maintenance from the point of

view of Industry 4.0 – particularly applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems and product development. The book is divided into two parts: the first includes papers related to intelligent systems in production engineering, while the second is dedicated to special sessions focusing on: 1. Computer Aided methods in Production Engineering 2. Mining 4.0 and Intelligent Mining Transportation 3. Modelling and Simulation of Production Processes 4. Multi-Faceted Modelling of Networks and Processes 5. Product Design and Product Manufacturing in Industry 4.0

This book is an excellent source of information for scientists in the field of manufacturing engineering and for top managers in production enterprises.

Logistics Management - Christian Bierwirth 2019-09-06
The conference proceedings contains contributions to the

Logistics Management conference 2019. The objective of the LM conferences is to discuss new ideas and technical developments related to the management of logistic systems. A special focus is put on digitalization of supply chains and decarbonization in the transport industry.

Fashion Logistics - John

Fernie 2019-11-03

Retailers are being advised to review their supply chains in a bid to accelerate their speed to market. Fashion Logistics assesses the growth and changes in the industry as well as the drivers of change in the market. Supply chain networks and operations play an integral role in distributing product across the retail industry and significant changes within those networks have altered the way in which they function. Manufacturers therefore need to rethink their supply chains to make them resilient to shock, agile enough to respond quickly to sudden change, flexible enough to customize products and efficient enough to protect margins. Fashion

Logistics assesses these forces and changes and how manufacturers should adapt their working practices accordingly. This second edition of Fashion Logistics includes revised CSR and reshoring sections, updated case studies and new content on how manufacturers can adapt their working practices and the further demise of the department store sector.

Multi-Criteria Decision-Making Techniques for Improvement Sustainability Engineering Processes - Edmundas

Kazimieras Zavadskas
2020-12-15

The success of any activity and process depends fundamentally on the possibility of balancing (symmetry) needs and their satisfaction. That is, the ability to properly define a set of success indicators. The application of the developed new multi-criteria decision-making (MCDM) methods can be eliminated or decreased by decision-makers' subjectivity, which leads to consistency or symmetry in the weight values of the criteria. In this Special

Issue, 40 research papers and one review study co-authored by 137 researchers from 23 different countries explore aspects of multi-criteria modeling and optimization in crisp or uncertain environments. The papers propose new approaches and elaborate case studies in the following areas of application: MCDM optimization in sustainable engineering, environmental sustainability in engineering processes, sustainable multi-criteria production and logistics processes planning, integrated approaches for modeling processes in engineering, new trends in the multi-criteria evaluation of sustainable processes, and multi-criteria decision-making in strategic management based on sustainable criteria.

Quantified Eco-Efficiency - Gjalt Huppel 2007-06-03

A central asset of eco-efficiency analysis is that it does not depend on a specific evaluation of environmental impacts against economic effects. Several evaluation methods

may be used, including those based on willingness-to-pay, panel procedures, and public statements on policy goals. This volume covers all aspects of eco-efficiency analysis and offers a global perspective on the subject.

XIV International Scientific Conference

"INTERAGROMASH 2021" -

Alexey Beskopylny 2021-12-01

This book contains original and fundamental research papers in the following areas: engineering technologies for precision agriculture, agricultural systems management and digitalization in agriculture, logistics in agriculture, and other topics. Selected materials of the largest regional scientific event—INTERAGROMASH 2021 conference—included in this book present the results of the latest research in the areas of precision agriculture and agricultural machinery industry. The book is aimed for professionals and practitioners, for researchers, scholars, and producers. The materials presented here are used in the

educational process at specific agricultural universities or during vocational training at enterprises and become an indispensable helper to farm managers in making the best agronomic decisions. The book is also useful for representatives of regional authorities, as it gives an idea of existing high-tech solutions for agriculture.

Information Systems and the Environment - National Academy of Engineering
2001-09-13

Information technology is a powerful tool for meeting environmental objectives and promoting sustainable development. This collection of papers by leaders in industry, government, and academia explores how information technology can improve environmental performance by individual firms, collaborations among firms, and collaborations among firms, government agencies, and academia. Information systems can also be used by nonprofit

organizations and the government to inform the public about broad environmental issues and environmental conditions in their neighborhoods. Several papers address the challenges to information management posed by the explosive increase in information and knowledge about environmental issues and potential solutions, including determining what information is environmentally relevant and how it can be used in decision making. In addition, case studies are described and show how industry is using information systems to ensure sustainable development and meet environmental standards. The book also includes examples from the public sector showing how governments use information knowledge systems to disseminate "best practices" beyond big firms to small businesses, and from the world of the Internet showing how knowledge is shared among environmental advocates and the general public.