

Green Logistics And Transportation A Sustainable Supply Chain Perspective Greening Of Industry Networks Studies

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Data Analytics for Supply Chain Networks -

Niamat Ullah Ibne Hossain 2023-06-22

The objective of the book is to adopt the application of data analytics to enhance the sustainability and resilience of the green supply chain networks. To demonstrate the applicability and usefulness of the method, the book adopts different data analytic models and approaches against the backdrop of case studies. In summary, this book attempts to address the question of methods, tools, and techniques that can be used to create resilient, anti-fragile, reliable, and invulnerable green supply chain networks.

Green Transportation Logistics - Harilaos N. Psaraftis 2015-07-13

This book examines the state of the art in green transportation logistics from the perspective of balancing environmental performance in the transportation supply chain while also satisfying traditional economic performance criteria. Part of the book is drawn from the recently completed European Union project Super Green, a three-year project intended to promote the development of European freight corridors in an environmentally friendly manner. Additional chapters cover both the methodological base and the application context of green transportation logistics. Individual chapters look at the policy context; the basics of transportation emissions;

Green Corridors basics; the concept of TEN-T (Trans-European Network); Benchmarking of green corridors; the potential role of ICT (Information and Communication Technologies); Green vehicle routing; Reducing maritime CO2 emissions via market based measures and speed and route optimization; Sulphur emissions; Lifecycle emissions; Green rail transportation; Green air transportation; Green inland navigation and possible areas for further research. Throughout, the book pursues the goal of “win-win” solutions and analyzes the phenomenon of “push-down, pop-up”, wherein a change in one aspect of a problem can cause another troubling aspect to arise. For example, speed reduction in maritime transportation can reduce emissions and fuel costs, but could require additional ships and could raise in-transit inventory costs. Or, regulations to reduce sulphur emissions may ultimately increase CO2 elsewhere in the supply chain. The book takes stock at the various tradeoffs that are at stake in the goal of greening the supply chain and looks at where balances can be struck.

Green and Lean Management - Carolina Machado 2016-10-12

This book focusses on the challenges and changes organizational management faces in an era when the need to develop environmentally aware processes meets high levels of

competition. It covers the synergetic effects, how re-use, recycling, waste reduction, and other sustainable production strategies can add value, low costs and time of production. Sustainable business behavior is not only an environmental perspective on management, but more and more contains an organizational perspective. Taking into account these issues, green and lean management appears as the way managers can drive their employees to continuously improve the management processes that add value to the organization and costumers. This book provides information on principles, strategies, models, and applications of green and lean management, and at the same time communicates the latest research activity relating to this scientific field world-wide.

Green Logistics - Alan McKinnon 2015-02-03

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 leading researchers in the field and provides a comprehensive view of the subject for students, managers and policy-makers. Fully updated, the 3rd edition of Green Logistics has 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 and a series of postscripts examining the effects of new developments, such as 3D printing, distribution by drone, the physical internet and the concept of peak freight. Other key topics examined 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. The 3rd edition of Green Logistics includes indispensable online supporting materials, including graphics, tables, chapter summaries, and guidelines for lecturers.

Green Shipping Management - Y.H. Venus Lun 2015-11-19

This book presents theory-driven discussion on

the link between implementing green shipping practices (GSP) and shipping firm performance. It examines the shipping industry's challenge of supporting economic growth while enhancing environmental performance. Consisting of nine chapters, the book covers topics such as the conceptualization of green shipping practices(GSPs), measurement scales for evaluating GSP implementation, greening capability, greening and performance relativity (GPR), green management practice, and green shipping network. In view of the increasing quest for environment protection in the shipping sector, this book provides a good reference for firms to understand and evaluate their capability in carrying out green operations on their shipping activities.

Toward Sustainable Operations of Supply Chain and Logistics Systems - Voratas

Kachitvichyanukul 2015-07-06

This book addresses critical issues in today's logistics operations and supply chain management, with a special focus on sustainability. In dedicated chapters the authors address aspects concerning multimode logistics operations, reverse network configuration, forward and reverse supply chain integration, improvement of the production operations and management of the recovery activities, as well as carbon footprint reduction in transportation. Selected best practices from different countries and industries are presented to aid in the implementation of sustainable policies in private enterprises and at public-sector institutions. The book offers a valuable resource for both academics and practitioners who wish to deepen their expertise in the field of logistics operations and management with regard to sustainability issues. The book examines both qualitative and qualitative aspects of sustainable supply chain and logistics operations.

Environmental Sustainability in Asian Logistics and Supply Chains - Xiaohong Liu

2018-07-12

This book gathers together invited presentations from the 12th International Congress on Logistics and SCM Systems (ICLS2017) held in Beijing, China, August 20–23, 2017. The focus of the ICLS2017 was environmental sustainability in logistics and supply chains, particularly in the Asia-Pacific region. It addressed a variety of

themes in the domains of green logistics and supply chain management (SCM), including green logistics and environmental impact, green SCM and business performance, green operations and optimization, supply chain sustainability, carbon management in logistics, and green SCM and corporate social responsibility (CSR). The editors selected high-quality presentations from the highly successful symposium, and invited the presenters to prepare full chapters for this book in order to disseminate their findings and promote further research collaborations. This timely book sheds new light on the theories and practices associated with greening logistics and SCM in Asia.

Supply Chain Management for Sustainable Food Networks - Eleftherios Iakovou
2016-01-19

An interdisciplinary framework for managing sustainable agrifood supply chains Supply Chain Management for Sustainable Food Networks provides an up-to-date and interdisciplinary framework for designing and operating sustainable supply chains for agri-food products. Focus is given to decision-making procedures and methodologies enabling policy-makers, managers and practitioners to design and manage effectively sustainable agrifood supply chain networks. Authored by high profile researchers with global expertise in designing and operating sustainable supply chains in the agri-food industry, this book: Features the entire hierarchical decision-making process for managing sustainable agrifood supply chains. Covers knowledge-based farming, management of agricultural wastes, sustainability, green supply chain network design, safety, security and traceability, IT in agrifood supply chains, carbon footprint management, quality management, risk management and policy-making. Explores green supply chain management, sustainable knowledge-based farming, corporate social responsibility, environmental management and emerging trends in agri-food retail supply chain operations. Examines sustainable practices that are unique for agriculture as well as practices that already have been implemented in other industrial sectors such as green logistics and Corporate Social Responsibility (CSR). Supply Chain Management for Sustainable Food Networks provides a useful resource for

researchers, practitioners, policy-makers, regulators and C-level executives that deal with strategic decision-making. Post-graduate students in the field of agriculture sciences, engineering, operations management, logistics and supply chain management will also benefit from this book.

Best Practices in Green Supply Chain Management - Sadia Samar Ali 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.

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

Green Supply Chain Management - Joseph Sarkis 2017-10-05

This book gives students a thorough overview of the environmental issues that impact the supply chain and details strategic methods of

addressing the political, social, technological, market, and economic concerns that have caused organizations to reconsider their impact. Readers will learn how to integrate the fields of operations management, procurement and purchasing, logistics, and marketing into a successful green supply chain, looking outward to form sustainable partnerships rather than focusing their efforts within the company. Each chapter describes a function or dimension of green supply chains, supplemented with short vignettes to ground the theory in practice. The authors examine various industries, including electronics, food products, and manufacturing, and draw on case studies from the Americas, Europe, Asia, and Oceania, allowing students to compare and contrast domestic and international practices. Blending industry insights with the latest academic thinking, they also consider hot button topics like global-local relationships, the role of third parties, green multitier supplier management, and blockchain technology management. Conclusive chapter summaries and plenty of visual aids help readers retain the information they need to improve environmental performance within, and beyond their organizations. Green Supply Chain Management is an excellent introduction to the topic for students and practitioners of supply chain management and environmental sustainability.

Integration of Information Flow for Greening Supply Chain Management - Adam Kolinski
2019-08-21

This book provides a framework for integrating information management in supply chains. Current trends in business practice have made it necessary to explore the potential held by information integration with regard to environmental aspects. Information flow integration provides an opportunity to focus on the creation of a more "green" supply chain. However, it is currently difficult to identify the impact of information integration on greening a supply chain in a wide range of practical applications. Accordingly, this book focuses on the potential value of information integration solutions in terms of greening supply chain management. It covers the following major topics: Application of information flow standards in the supply chain Information systems and technological solutions for integrating

information flows in supply chains The Internet of Things and the industry 4.0 concept, with regard to the integration of supply chains Modeling and simulation of logistics processes Decision-making tools enabling the greening of supply chains

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.

Greening the Supply Chain - Joseph Sarkis
2006-09-21

This book analyzes environmental supply chain management theory and practice, with contributions by a international experts. Coverage includes concepts and principles of green supply chain management; studies of practices and concerns in industries worldwide; tools for environmental supply chain design and

development; and case studies of green supply chain practices. Professionals, policy makers, researchers and students will value this book for the insights it provides into a topic of growing concern.

Sustainable Logistics and Transportation - Didem Cinar 2018-01-02

Focused on the logistics and transportation operations within a supply chain, this book brings together the latest models, algorithms, and optimization possibilities. Logistics and transportation problems are examined within a sustainability perspective to offer a comprehensive assessment of environmental, social, ethical, and economic performance measures. Featured models, techniques, and algorithms may be used to construct policies on alternative transportation modes and technologies, green logistics, and incentives by the incorporation of environmental, economic, and social measures. Researchers, professionals, and graduate students in urban regional planning, logistics, transport systems, optimization, supply chain management, business administration, information science, mathematics, and industrial and systems engineering will find the real life and interdisciplinary issues presented in this book informative and useful.

Green Supply Chain - Tamás Bányai
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.

Handbook on the Sustainable Supply Chain - Joseph Sarkis 2019

Supply chain management has long been a feature of industry and commerce but, with increasing demands from consumers, producers are spending more time and money investing in ways to make supply chains more sustainable. This exemplary Handbook provides readers with a comprehensive overview of current research on

sustainable supply chain management.

Sustainable Logistics - Cathy Macharis
2014-12-03

This book will bring a state of the art overview of the research done in sustainable logistics. It will be structured along the four A's of sustainable logistics: awareness, avoidance, acting and shifting goods, and anticipation of new technologies.

Strategic Decision Making for Sustainable Management of Industrial Networks - Jafar Rezaei 2021-01-12

This book presents a diverse set of decision-making methodologies to solve some of the most important decisions that most organizations face today. It is an excellent demonstration of some great challenges in our society in the area of sustainability. These great challenges, ranging from sustainability in logistics to the use of renewable energies, needs to be urgently addressed. Sustainability has become one of the most important topics in management and many organizations are taking big steps towards sustainability. Organizations are attempting to use cleaner production technologies and renewable energies sources, to improve health and safety issues within their industries and the products and services they offer. These points involve several important strategic and managerial decisions, highlighted in this book. The book can be used by decision-makers and policy-makers as exemplary guidelines to solve sustainability problems.

Sustainable and Green Supply Chains and Logistics Case Study Collection - Ozlem Bak
2021-11-03

Sustainability is an increasingly urgent and important factor in logistics and supply chain management, impacting the whole supply chain lifecycle from product design and development, to supplier management, packaging, transportation, warehousing and distribution. The third volume of the Supply Chain Case Study Collection, the Sustainable and Green Supply Chains and Logistics Case Study Collection contains real-life scenarios from leading companies who are pursuing a sustainability agenda. Cases cover sustainability and 'green' practices in a range of different industries, from food through to manufacturing and construction, and in a variety of organization sizes. They are

written by leading international academics and feature cutting-edge research from countries including India, Vietnam, Brazil, China and the UK. By exploring examples of waste reduction, supplier management, the circular economy and cross-industry collaboration, the Case Study Collection focuses on how organizations are currently trying to meet sustainability goals and achieve success in greening supply chains.

Artificial Intelligence Applications and Innovations - Ilias Maglogiannis 2021-06-22

This book constitutes the refereed proceedings of the 17th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2021, held virtually and in Hersonissos, Crete, Greece, in June 2021. The 50 full papers and 11 short papers presented were carefully reviewed and selected from 113 submissions. They cover a broad range of topics related to technical, legal, and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections: adaptive modeling/ neuroscience; AI in biomedical applications; AI impacts/ big data; automated machine learning; autonomous agents; clustering; convolutional NN; data mining/ word counts; deep learning; fuzzy modeling; hyperdimensional computing; Internet of Things/ Internet of energy; machine learning; multi-agent systems; natural language; recommendation systems; sentiment analysis; and smart blockchain applications/ cybersecurity. Chapter "Improving the Flexibility of Production Scheduling in Flat Steel Production Through Standard and AI-based Approaches: Challenges and Perspective" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Sustainable Supply Chain Management - Joëlle Morana 2013-05-06

It is commonly recognized that logistics has become a major strategic issue for all companies, whether they are part of the primary, secondary or tertiary sector. Faced with the external pressures of globalization and competition, logistics optimizes processes and reduces production and delivery cycles. The use of Sustainable Supply Chain Management (SuSCM) is now increasingly at the center of thought, due to the numerous factors favoring its implementation: requests from various

stakeholders, governmental pressures (decrees, laws, regulations, etc.), environmental pressures (pollution, disappearance of fuel fossils, etc.) and societal pressures (reputation/image, protection, etc.). However, there are still obstacles to the implementation of SuSCM, including significant costs, the complexity of coordination and the lack of communication within the whole supply chain. Nevertheless, it should nowadays be included by any organization in its decision towards a strategic approach towards sustainability. This book presents each economic, environmental and societal aspect of SuSCM. By considering each of these dimensions separately, the primary objective is to facilitate the implementation of the elements that make it up. Readers are also provided with several "strategic interpretive lenses" to be able to perform audits and diagnostics of each component. Contents: 1. The Economic Aspect of Sustainable Supply Chain Management. 2. The Environmental Aspect of Sustainable Supply Chain Management. 3. The Social/Societal Aspect of Sustainable Supply Chain Management. 4. Sustainable Supply Chain Management Balanced Scorecard. About the Authors Joëlle Morana is Lecturer in management science, attached to the Laboratoire d'Economie des Transports (Transport Economy Laboratory) at University Lumière Lyon II in France. Her fields of research concern economic, environmental and societal logistics.

Green Logistics and Transportation - Behnam Fahimnia 2015-05-11

This book identifies and furthers the state of the art in green logistics and transportation with a supply chain focus. It includes discussions on concerns and linkages across policy, corporate strategy and operations and inter-organizational relationships and practices. Separate sections are assigned to discuss issues related to greening of logistics and transportation functions, including green logistics network, green land transportation and green air and water transportation. Linking research with practice is another important feature of the book as various techniques and research methodologies are utilized to explain and analyze green logistics and transportation concepts and issues. The authors come from throughout the world from a variety of backgrounds (e.g. policy, technical, engineering, and management backgrounds) to

provide solutions and insights from their regional and global perspectives to some of the world's most critical green logistics and transportation issues.

Sustainability in Supply Chain Management Casebook - Steven M. Leon 2013

The armenia earthquake: grinding out an effective disaster response in colombia's coffee region. Resilient response and recovery at western digital: after the Thai flood. ...

Handbook of Research on Sustainable Supply Chain Management for the Global Economy - Akkucuk, Ulas 2020-06-26

Many fields are beginning to implement developing practices that prove to be more efficient and environmentally friendly compared to traditional practices. This holds true for the realm of business, as organizations are redesigning their operations through the incorporation of sustainable methods. Research is needed on the specific techniques companies are using to promote efficiency and improved effectiveness using sustainability. Handbook of Research on Sustainable Supply Chain Management for the Global Economy is an essential reference source that discusses the incorporation of sustainability in various facets of business management. Featuring research on topics such as disruptive logistics, production planning, and renewable energy sources, this book is ideally designed for researchers, practitioners, students, managers, policymakers, academicians, economists, scholars, and educators seeking coverage on sustainable practices in supply chains to ensure a cleaner environment.

Maritime Logistics - Dong-Wook Song 2015-04-03

Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. At the cutting edge in its assessment of the industry, Maritime Logistics covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new

international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, Maritime Logistics provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more.

Sustainable Development Goals and Sustainable Supply Chains in the Post-global Economy - Natalia Yakovleva 2019-05-21

This book presents a collection of studies on current best practices for delivering sustainable development policies within supply chains. It critiques the limitations of existing business theory and practice on sustainable supply chain management, and discusses opportunities for new conceptual models for businesses to engage with Sustainable Development Goals (SDGs). It examines how businesses can work towards implementing Sustainable Development Goals in the contexts of entrepreneurial initiative, industry collaboration and regional development. SDGs renew the sustainable development agenda for global communities and ask businesses and organisations to reset their sustainable development policies. A strategy to embed sustainable development principles into business operations along the supply chain operations, which has been a conceptual and, in many instances, practitioner, business and industry achievement of the past decades, is not enough to shift the economic and social conditions of poor populations around the world. How would the global supply chains of the future look like? What social relations does it envisage? How will businesses and organisations engage with societies, environments and complex institutional contexts in emerging markets and developing countries, which are faced with issues of population growth, needed leaps in infrastructure provision, educational and health improvements, cultural and institutional shifts? The books challenges current approaches to sustainable supply chain practices guided by discussion on

SDGs. It reviews implementation issues of existing sustainable development approaches, assesses the advancement of sustainable development strategies and examines the opportunities for global value chains to increase their positive social and environmental inputs in regions, communities and organisations. The book collects both conceptual and empirical studies set in a variety of business and organisational contexts, such as manufacturing, retail, procurement, cities and industrial parks. It contests the accepted axioms of sustainable practices in the global supply chains and proposes new models for organisations and production networks to engage with societies and address market and production effects on communities and institutions.

Emerging Trends in Sustainable Supply Chain Management and Green Logistics -

Waqas, Muhammad 2023-02-10

Across the world, companies are trying to create a sustainable platform through a supply chain to minimize the environmental impact of their product lines and services on the world's ecosystem. Enhancing eco-awareness at every operational level of business operations can positively improve a specific organization's reputation and legitimize business operation. Furthermore, sustainable supply chain operations also positively contribute to financial performance by enhancing productivity and cost-saving. *Emerging Trends in Sustainable Supply Chain Management and Green Logistics* provides relevant practical and theoretical frameworks and the latest empirical research results in sustainable supply chain management and considers the strategic role of green logistics and supply chain management, proper treatment of end-of-life products recycling, emerging trends, and improvements in supply chain management and logistics operations. Covering key topics such as green purchasing, circular economy, and sustainable development, this reference work is ideal for industry professionals, business owners, managers, policymakers, researchers, scholars, academicians, practitioners, instructors, and students.

Green Supply Chain Management -

Charisios Achillas 2018-10-31

Today, one of the top priorities of an organization's modern corporate strategy is to

portray itself as socially responsible and environmentally sustainable. As a focal point of sustainability initiatives, green supply chain management has emerged as a key strategy that can provide competitive advantages with significant parallel gains for company profitability. In designing a green supply chain, the intent is the adoption of comprehensive and cross-business sustainability principles, from the product conception stage to the end-of-life stage. In this context, green initiatives relate to tangible and intangible corporate benefits. Sustainability reports from numerous companies reveal that greening their supply chains has helped reduce operating cost, thus boosting effectiveness and efficiency while increasing sustainability of the business. *Green Supply Chain Management* provides a strategic overview of sustainable supply chain management, shedding light on the theoretical background and key principles of the topic. Specifically, this book covers various thematic areas including benefits and impact of green supply chain management; enablers and barriers on supply chain operations; inbound and outbound logistics considerations; and production, packaging and reverse logistics under the notion of "greening". The ultimate aim of this textbook is to highlight the challenges in the implementation of green supply chain management in modern companies and to provide a roadmap for decision-making in real-life cases. Combining chapter summaries and discussion questions, this book provides an accessible and student-friendly introduction to green supply change management and will be of great interest to students, scholars and practitioners in the fields of sustainable business and supply chain management.

Sustainable Supply Chains - Yann Bouchery 2016-09-01

This book is primarily intended to serve as a research-based textbook on sustainable supply chains for graduate programs in Business, Management, Industrial Engineering, and Industrial Ecology, but it should also be of interest for researchers in the broader sustainable supply chain space, whether from the operations management and industrial engineering side or more from the industrial ecology and life-cycle assessment side. Finding efficient solutions towards a more sustainable

supply chain is increasingly important for managers, but clearly this raise difficult questions, often without clear answers. This book aims to provide insights into these kinds of questions for students and practitioners, based on the latest academic research.

Operations Management and Sustainability

- Luitzen de Boer 2018-09-03

This edited book presents cutting edge international research in operations management sustainability and topical research themes. As the sustainability agenda gains greater prominence and momentum throughout society, business actors and stakeholders are increasingly concerned with the impact of current business operations. There is a growing need for OM research and practice which reflects these concerns. Based on demands from industry and society at large, universities and schools now develop academic programs which are meant to serve this need – yet there is no clear and manifest research program concerning OM and sustainability. This book is of use to both researchers orientating themselves in this new and exciting field and educators seeking inspiration to develop new courses.

Social and Environmental Dimensions of Organizations and Supply Chains

- Marcus Brandenburg 2017-07-13

This book focuses on environmental and social factors in international supply chains and industry networks. It explores whether socially-responsible and environmentally-conscious operations are complementary or conflictive to economic targets. The book elaborates on innovative approaches to manage the economic, ecological and social performance in supply networks from different perspectives. In addition, it links sustainability to operational processes and illustrates specific application contexts. Moreover, it covers the social dimension of sustainability. The rise of sustainability in management forces enterprises to revisit the concept of profitability that drives their operations. Social standards and ecological targets represent critical factors that challenge industry networks. The interplay of these goals requires new insights from scientific research and managerial practice. New approaches and systems are needed to minimize environmental and social harms and to promote sustainability.

Port Economics, Management and Policy - Theo Notteboom 2022-01-31

Port Economics, Management and Policy provides a comprehensive analysis of the contemporary port industry, showing how ports are organized to serve the global economy and support regional and local development. Structured in eight sections plus an introduction and epilog, this textbook examines a wide range of seaport topics, covering maritime shipping and international trade, port terminals, port governance, port competition, port policy and much more. Key features of the book include: Multidisciplinary perspective, drawing on economics, geography, management science and engineering Multisector analysis including containers, bulk, break-bulk and the cruise industry Focus on the latest industry trends, such as supply chain management, automation, digitalization and sustainability Benefitting from the authors' extensive involvement in shaping the port sector across five continents, this text provides students and scholars with a valuable resource on ports and maritime transport systems. Practitioners and policymakers can also use this as an essential guide towards better port management and governance.

Green Logistics - Prof Alan McKinnon 2010-03-03

The main objective of logistics is to co-ordinate the movement of products through the supply chain in a way that meets customer requirements at minimum cost. In the past this cost has been defined in purely monetary terms. 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. *Green Logistics* analyses the environmental consequences of logistics and how to deal with them. Written by a leading team of logistics academics, the book examines ways of reducing these externalities and achieving a more sustainable balance between economic, environmental and social objectives.

Greening The Supply Chain: Responsive and Responsible Approaches (UUM Press) - Mohd Rizal Razalli 2022-04-03

All organizations need to have an efficient and effective supply chain. The interconnected, interrelated and interlinked networks in today's

global business have pushed organizations to put greater emphasis on the supply chain to gain higher positive impact on their business bottom line. On the other hand, supply chain may also result in negative impact to the world due to the irresponsible business organizations. Despite the financial gain of the business, the environment and the society have to pay for the price of irresponsible actions of these organizations. As a result, the concept of Green Supply Chain has emerged to be as a solution to various societal and environmental problems. The aim is to achieve more sustainable development in doing a business. Sustainable Development Goal (SDG) is the key and the climate change is the central issue to address today. This book discusses the importance of green supply chain to organizations and offers various suggestions to be green to the environment and society. The content is divided into 3 main parts: (1) Overview of the green supply chain management, (2) Green Strategy and Operations, and (3) Green Cycle. It is hoped that the book be useful to all particularly to organizations as well as researchers in practicing and researching on a supply chain agenda. Ultimate aim is for us to be responsive and responsible in providing product and services to our customer, society and environment.

Innovative Logistics Services and Sustainable Lifestyles - Ani Melkonyan
2019-02-26

This edited volume aims to describe the transformation of supply chain management (SCM) and logistics services by merging sustainable logistics, SCM, sustainable consumption and lifestyle research. This assessment of the transformation potential serves the development of sustainable business models and optimized decision-making systems for achieving sustainable economic value creation within a green economy. In 5 sections, the volume takes a unique transdisciplinary approach to assess sustainable business practices within SCM and the logistics sector, and to understand the interactions between logistics services and consumer lifestyles while creating transparency within the decision making process. This book will be of particular interest to academics, policymakers, planners, and politicians. Section 1 introduces readers to the

importance of blended research and innovation between sustainable SCM and consumer lifestyles for transformation towards a green economy. Section 2 addresses the question of how trends and developments in consumption behavior and lifestyles influence the development of sustainable logistics. Section 3 discusses the transformation potential towards sustainable logistics using the food sector as an example. Section 4 focuses on strategic decision making in SCM, and how long-term improvements of sustainability performance can be achieved. Section 5 concludes with policy recommendations as well as research and innovation perspectives for future sustainable development with SCM and logistics.

The Critical Success Factors of Green Supply Chain Management in Emerging Economies - Syed Abdul Rehman Khan
2020-04-21

This book outlines the scope of sustainability and green practice in supply chain operations, which has continued to grow with a rapid speed. The book includes core aspects of sustainability and green supply chain management philosophy and practice, covering general concepts, principles, strategies and best practices, which not only protect socio-environmental sustainability, but spur economic growth. The book will aid practitioners in using sustainable supply chains to reduce cost and improve service, as well as keep up-to-date with different features of green supply chains and logistics in a global market. The book will also be a valuable resource for candidates undertaking certification examinations and students studying for degrees in related fields of sustainability and green supply chain management.

Handbook of Research on Interdisciplinary Approaches to Decision Making for Sustainable Supply Chain - Anjali Awasthi
2020

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 Chain 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.

Supply Chain Sustainability - Sachin Kumar
Mangla 2020-11-23

Supply chains are significant in improving business efficiency. Sustainable supply chains help industries enhance their ecological, monetary, and social performance. Innovative research frameworks as well as the modelling of sustainability issues are significant to different stakeholder's perspectives. This book guides researchers and practitioners through developing effective sustainable supply chains to meet UN Sustainable Development Goals (SDGs).

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.