Sustainable Logistics And Supply Chain Management Principles And Practices For Sustainable Operations And Management

Ethical and Sustainable Supply Chain Management in a Global Context

Sustainable Supply Chains

Sustainable Logistics

Supply Chain Management (Revised Edition)

Sustainable Logistics and Supply Chain Management

Green Supply Chain Management

Sustainable Operations and Supply Chain Management

Sustainability in Global Supply Chain Management

Sustainable Fashion Supply Chain Management

Supply Chain Management

Sustainable Supply Chain Management

Sustainability and Raw Material Management

Production and Logistics

Sustainable Supply Chain Strategies

Issues and Models

Applications of Contemporary Management Approaches in Supply Chains

Supply Chain Management

Logistics

Sustainable Supply Chains

Green Supply Chain Management

Logistics Operations

Supply Chain Management

Sustainable Procurement in Supply Chain Operations

Sustainable Supply Chain Management

Sustainability in Global Value Chains

Sustainable Operations and Closed Loop Supply Chains, Second Edition

Green Logistics and Transportation

Sustainable Operations of Supply Chain and Logistics Systems

Green Supply Chain Management

Handbook of Research on Sustainable Supply Chain Management

for the Global Economy

Best Practices in Green Supply Chain Management

Sustainable and Green Supply Chains

Logistics Case Study Collection

Innovative Logistics Services and Sustainable Lifestyles

The Lean Sustainable Supply Chain

Green Supply Chain Management for Sustainable Business Practices

Sustainability and Collaboration in Supply Chain Management

Smart and Sustainable Supply Chain and Logistics

Trends, Challenges, Methods, and Best Practices

Sustainability in Supply Chain Management

Casebook Sustainable Logistics and Supply Chains

Sustainable Logistics and Strategic Transportation Planning

Global Perspectives on Green Business Administration

and Sustainable Supply Chain Management

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.

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).

This book focuses on the need to develop sustainable supply chains - economically, environmentally and socially. This book is not about a wish list of impractical choices, but the reality of decisions faced by all those involved in supply chain management today. Our definition of sustainable supply chains is not restricted to so-called "green" supply chains, but recognises that in order to be truly sustainable, supply chains must operate within a realistic financial structure, as well as contribute value to our society. Supply chains are not sustainable unless they are realistically funded and valued. Thus, a real definition of sustainable supply chain management must take account of all relevant economic, social and environmental issues. This book contains examples from a wide range of real-life case studies, and synthesizes the learnings from these many different situations to provide the fundamental building blocks at the centre of successful logistics and supply chain management.

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

Sustainability can create greater efficiency and cost savings in the supply chain. Supply chains, which are more complex and global than ever before, are full of both risks and opportunities. The risks range from inconsistent or poor quality to supply disruptions to health and safety concerns to corruption. Businesses face pressure to adopt sustainable supply chain practices from various stakeholders and motivations typically come from one or more of four sources: customers, compliance, costs, competitive advantage. Sustainability in Global Value Chains is the guide to understanding all aspects and approaches of sustainable supply chains using in-depth research from leading academics from sixteen different universities. Sustainability in Global Value Chains focuses on how to make supply chains sustainable, with an emphasis on new technologies and digitization. The research featured covers topics such as KPIs in production and supply chains, the role of standards, blockchain technology and algebraic models. This comprehensive book presents real world issues, problems in implementing sustainability in the supply chain and examples of best practice.

Lean, green supply chain management combines the efficiency that lean technologies deliver with the environmental and cost benefits of sustainability. The Lean Sustainable Supply Chain illuminates the business benefits of combining "lean" and "green," and offers start-to-finish guidance for redesigning company infrastructure and technologies to achieve these benefits. Palevich introduces the essential concepts of lean green supply chain management, illuminating them with a comprehensive case study showing how to manage change, innovation, talent, execution, inventory, warehousing, and transportation. He demonstrates how to integrate supply chain sustainability into business scorecards; make more effective use of third-party providers (3PLs); drive more value from information; build a state-of-the-art forecasting system and share it with suppliers; and much more. He then systematically addresses the full spectrum of technical issues, including forecasting methodologies, the nitpicky-grit of supply integration; business intelligence in event-driven supply chains; carbon tracking; quantifying lean savings; and much more. This book will be an invaluable resource for every business and technical manager, decision-maker, technical specialist, and consultant concerned with lean and green supply chains.

Sustainable Production and Logistics: Modeling and Analysis Subject Guide: Engineering - Industrial & Manufacturing This book presents issues faced by planners of production and distribution operations in terms of smart manufacturing and sustainability, using efficient quantitative techniques in a variety of decision-making situations. A addressing the state-of-the-art of the smart and sustainable sides of production and distribution planning operations, it highlights how a current issue can be effectively approached and what particular quantitative technique can be used. The book goes on to provide a foundation in the new and fast-growing digital journey, and includes logistics 4.0 inside Industry 4.0, along with case studies. The information in this book is useful worldwide, especially in the Americas, Europe, Turkey, and Japan. It is written for academicians, researchers, practitioners, and students.
In the 21st century, supply chain operations and relationships among supply chain partners have become highly challenging, necessitating new approaches, e.g., the development of new models. Supply Chain Strategies, Issues and Models discusses supply chain issues and models with examples from actual industrial cases. Expert authors with a wide spectrum of knowledge working in various areas of supply chain management from various geographical locations offer refreshing, novel and insightful ideas and address possible solutions using established theories and models. Supply Chain Strategies, Issues and Models features studies that have used mathematical modeling, statistical analyses and also descriptive qualitative studies. The chapters cover many relevant themes related to supply chains and logistics including supply chain complexity, information sharing, quality (six sigma), electronic Kanban, inventory models, scheduling, purchasing and contracts. To facilitate easy reading, the chapters that deal with supply chain related issues are first, followed by studies on inventory, scheduling, purchasing and logistics. This book can be used as a useful resource of supply chain management by academics, students and practitioners. This book can serve as a helping tool in managerial decision making for investments in collaboration and information exchange to improve forecasts, scheduling and inventory management, and for supply chain managers to leverage product and process complexities into competitive advantage. Some interesting mathematical models can appeal to students and researchers interested in modeling the impact of information sharing in supply chains.

This handbook is a compilation of comprehensive reference sources that provide state-of-the-art findings on both theoretical and applied research on sustainable fashion supply chain management. It contains three parts, organized under the headings of “Reviews and Discussions,” “A Naïve Research,” and “Empirical Research,” featuring peer-reviewed papers contributed by researchers from Asia, Europe, and the US. This book is the first to focus on sustainable supply chain management in the fashion industry and is therefore a pioneering text on this topic. In the fashion industry, disposable fashion under the fast fashion concept has become a trend. In this trend, fashion supply chains must be highly responsive to market changes and able to produce fashion products in very small quantities to satisfy changing consumer needs. As a result, new styles will appear in the market within a very short time and fashion brands such as Zara can reduce the whole process cycle from conceptual design to a final ready-to-sell “well-produced and packaged” product on the retail sales floor within a few weeks. From the supply chain’s perspective, the fast fashion concept helps to match supply and demand and lowers inventory. Moreover, since many fast fashion companies, e.g., Zara, H&M, and Topshop, adopt a local sourcing approach and obtain supply from local manufacturers (to cut lead time), the corresponding carbon footprint is much reduced. Thus, this local sourcing scheme under fast fashion would enhance the level of environmental friendliness compared with the more traditional offshore sourcing. Furthermore, since the fashion supply chain is notorious for generating high volumes of pollutants, involving hazardous materials in the production processes, and producing products by companies with low social responsibility, new management principles and theories, especially those that take into account consumer behaviours and preferences, need to be developed to address many of these issues in order to achieve the goal of sustainable fashion supply chain management. The topics covered include Reverse Logistics of US Carpet Recycling; Green Brand Strategies in the Fashion Industry; Impacts of Social Media on Consumers’ Disposals of A pparel; Fashion Supply Chain Network Competition with Eco-labelling; Reverse Logistics as a Sustainable Supply Chain Practice for the Fashion Industry; A pparel M anufacturers’ P ath To W orld-c lass Corporate Social Responsibility; Sustainable Supply Chain M anagement in the S low-F ashion Industry; M ass M arket Second-h and Clothing Retail Operations in Hong K ong; Constraints and Drivers of Growth in the Ethical Fashion Sector: T he case of F rance; and Effects of U sed Garment Collection Programmes in F ast Fashion Brands.

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.

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to re-design their operations more effectively. Green Supply Chain Management for Sustainable Business Practice examines the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises, focusing on how green approaches improve operations in an ecological way. Highlighting key concepts, emerging innovations, and future directions, this book is a pivotal reference source for professionals, managers, educators, and upper-level students.

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.

Sustainable Operations and Supply Chain Management addresses the most relevant topics of operations and supply chain management from the perspective of sustainability. The main focus is to provide a step by step guide for managerial decisions made along the product life-cycle, following a path made up of the following steps: product design, sourcing, manufacturing, packaging and physical distribution, reverse logistics and recovery.

This book gathers together invited presentations from the 12th International Congress on Logistics and SCM Systems (ICLS 2017) held in Beijing, China, August 20–23, 2017. The focus of the ICLS 2017 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.

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, this 3rd Edition of Green Logistics includes indispensable online supporting materials, including graphs, 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).

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 quantitative aspects of sustainable supply chain and logistics operations.

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.

Heavy industrialization in the past few decades has caused several global environmental issues including poor air quality, climate change, and outdoor air pollution-related diseases. As such, consumer pressure coupled with strict governmental policies have influenced firms to adopt and implement green practices in their supply chain and business operations in order to improve socio-environmental sustainability. Global Perspectives on Green Business Administration and Sustainable Supply Chain Management is an essential reference book that discusses innovative green practices including recycling, remanufacturing, reduction in waste and adoption of renewable energy in manufacturing. It also examines environmentally friendly policies that have been adopted by many European and Western countries. Featuring coverage on a broad range of topics such as energy analysis, environmental protections, and logistics development, this book is ideally designed for managers, operations managers, executives, manufacturers, environmentalists, researchers, industry practitioners, academicians, and students.

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 chain management and will be of great interest to students, scholars and practitioners in the fields of sustainable business and supply chain management.

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 green supply chains.

The book is a collection of studies dedicated to different perspectives of three dimensions or pillars of the sustainability of supply chain and supply chain management - economic, environmental, and social - and other aspects related to performance evaluation, optimization, and modeling of and for sustainable supply chain management, and thus presents another valuable contribution to sustainable development and sustainable way of life.

As the customer is demanding more sustainable and affordable products, the supply chains have to find innovative ways to fulfill this need. In this context, collaboration as well as optimization methods are becoming even more evident to enhance supply chain structure to an efficient and sustainable approach. While collaboration and optimization increase complexity and susceptibility, risk management needs to be applied concurrently. This volume, edited by Wolfgang K. Ersten, Thorsten Blecker and Christian Ringle, provides valuable insights into: - Sustainability in Logistics - Sustainability and collaboration practices - Supply chain risk management - Optimization methods in supply chain management. This volume addresses timely and relevant topics. Both researchers and practitioners are addressed and can obtain background information from current distributions by international authors presenting a state of the art research overview.

Sustainable Procurement is an emerging concept in supply chain and operations management. Manufacturing industries have made improvements in moving from cost-based to quality-based, and customer-focused supply chain management strategies. This is becoming an integrated component in the supply chain system, with players becoming aware of the regulations and needs of the customer. It is imperative for production firms to look...
at the procurement activity as one of the strategic enablers for sustaining the business in the competitive global environment. This book will provide industries with an understanding of the concepts related to sustainable procurement policies and its implementation. Provides decision and theory development models in sustainable procurement supply chains includes contributions in all three major analytics: descriptive, predictive, and perspectives in the context of sustainable procurement supply chain. Discusses new business models with suppliers and opportunities for co-branding. Covers how to develop new tools to measure and allocate the gains from sustainable practices among stakeholders. Analyses the science of translating data into meaningful and actionable insights.

Any organizations find supply chain management an essential prerequisite to building a sustainable competitive edge for their services or products. While interest in SCM is enormous, lack of theoretical frameworks and real-world applications often characterizes research in the field, and effective management of the supply chain remains elusive. Supply Chain Sustainability and Raw Material Management: Concepts and Processes is a comprehensive and up-to-date resource for operations researchers, management scientists, industrial engineers, and other business practitioners and specialists looking for systemic and advanced discussions of supply chain management. By presenting qualitative concepts, quantitative models, and case studies, this book is a coherent guide to creating long-term and sustainable performance for organizations who want to compete in the global market.

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.

Sustainable Food Supply Chains: Planning, Design, and Control through Interdisciplinary Methodologies provides integrated and practicable solutions that aid planners and entrepreneurs in the design and optimization of food production-distribution systems and operations and drives change toward sustainable food ecosystems. With synthesized coverage of the academic literature, this book integrates the quantitative models and tools that address each step of food supply chain operations to provide readers with easy access to support decision-making quantitative and practicable methods. Broken into three parts, the book begins with an introduction and problem statement. The second part presents quantitative models and tools as an integrated framework for the food supply chain system and operations design. The book concludes with the presentation of case studies and applications focused on specific food chains. Sustainable Food Supply Chains: Planning, Design, and Control through Interdisciplinary Methodologies will be an indispensable resource for food scientists, practitioners and graduate students studying food systems and other related disciplines. Contains qualitative models and tools that address the interconnected areas of the food supply chain. Synthesizes academic literature related to sustainable food supply chains. Deals with interdisciplinary fields of research (Industrial Systems Engineering, Food Science, Packaging Science, Decision Science, Logistics and Facility Management, Supply Chain Management, Agriculture and Land-use Planning) that dominate food supply chain systems and operations. Includes case studies and applications.

This book discusses the critical contemporary issues of sustainability and integration of physical and information flow. It explores the digitalization of logistics processes and the need for a more integrated and a seamless cooperation in supply chain management, which are dominant trends in business practice. Moreover, it examines how the pressure for CO2 emission reductions and more resource-efficient business models influences the organization of logistics operations on both a local and global scale, demonstrating that integrating physical and cyber systems is necessary to achieve a more environmentally friendly, safe logistics and supply chain operations. In the individual chapters, the authors discuss the new qualitative and quantitative theoretical methods and models and also analyze case studies from business practice. This book provides valuable insights for academics, Ph.D. students and practitioners wishing to deepen their understanding of logistics operations and management.

The tactical organization of resources is a vital component to any industry in modern society. Effectively managing the flow of materials through various networks ensures that the requirements of customers are met. Sustainable Logistics and Strategic Transportation Planning is a pivotal reference source for the latest research on the management of logistics through the lens of sustainability, as well as for emerging procedures that are particularly critical to the transportation sector. Highlighting international perspectives, conceptual frameworks, and targeted investigations, this book is ideally designed for policy makers, professionals, researchers, and upper-level students interested in logistics and transport systems.

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.

In today's rapidly changing business environment, strong influence of globalization and information technologies drives practitioners and researchers of modern supply chain management, who are interested in applying different contemporary management paradigms and approaches, to supply chain process. This book intends to provide a guide to researchers, graduate students and practitioners by incorporating every aspect of management paradigms into overall supply chain functions such as procurement, warehousing, manufacturing, transportation and disposal. More specifically, this book aims to present recent approaches and ideas including experiences and applications in the field of supply chains, which may give a reference point and useful information for new research and to those allied, affiliated with and peripheral to the field of supply chains and its management.

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.

Various industries in modern society can contribute to many different sustainable development initiatives. By implementing better processes for resource usage and its impacts, businesses can play a vital role in creating a cleaner environment. Ethics and Sustainability in Global Supply Chain Management is a comprehensive reference source for the latest scholarly material on organizational procedures and methods that ensure environmental sustainability, while maintaining effective production processes. Highlighting the most innovative topics and perspectives, such as life cycle costing, waste management, and business leadership, this book is ideally designed for professionals, academics, practitioners, graduate students, and researchers interested in developing green supply chain processes.

Sustainable Logistics and Supply Chain Management is the essential guide to the principles and practices of sustainable logistics operations. Based on extensive research, this book covers the whole scope of sustainable logistics. The case studies, with particular attention for use in a teaching context, relate the theoretical concepts to practice and what is happening 'on the ground'. Sustainable Logistics and Supply Chain Management examines all the key areas in sustainable logistics and supply chain management, including: sustainable product design and packaging; sustainable purchasing and procurement; environmental impact of freight transport; sustainable warehousing and storage; and much more. Sustainable Logistics and Supply Chain Management provides practitioners and researchers with a practical guide to sustainability in logistics and the latest management principles and practices.
Logistics and Supply Chain Management is a highly accessible guide to sustainable supply chain management. It provides an excellent insight into the topic that will help managers, students, and scholars grasp the fundamentals of green supply and logistics management. A vital teaching resource for courses on sustainable logistics, this revised edition includes valuable supporting online materials.

This book has been written for any organization that needs guidance on the journey toward sustainability. To be sustainable, your organization needs to consider the triple bottom line of economic, environmental, and social returns, so that it can be assured of a steady supply of inputs such as materials and labor. The author explains the first step toward sustainability: to reduce waste in operations, with such tools as Lean and Six Sigma. He also helps guide your firm through a life cycle assessment (LCA) methodology for each of the main products or processes. LCA assesses the environmental impact (such as energy consumption) of a product or process through its life cycle: sourcing, manufacturing, distribution, use by consumers, and end of life. You then learn about becoming eco-efficient through ISO 14001, green buildings, renewable energy, and biofuels. The final step is to close the loop. To close the loop, you learn about servitizing, Design for Environment (DFE), and remanufacturing.

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 local–global relationships, the role of third parties, green multilayer supply provider, 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.

This book addresses the main challenges affecting modern logistics and supply chains and is organized according to five main themes: supply chain strategy and management, information and communication technology (ICT) for logistics and related business models, vertical and horizontal collaboration, intelligent hubs (e.g., ports and cities) and policy for sustainable logistics. The key findings presented are based on both extensive research and on business cases. The book examines logistics from a comprehensive viewpoint embracing the entire supply chain. The overarching advanced logistics and supply chain concept at the heart of this book endeavors to contribute to a sustainable intelligent transport system by making it focus on costs and sustainability as they relate to the management of global supply chains. Focusing on the need for a variety of topic chains, logistics and transport options, on the potential offered by technological developments, infrastructural and organizational aspects, information flows, the financial and legal domain, harmonization and the complexity of implementation. In closing, the book presents new approaches to the coordination of sound business and governance models.

The ways in which we design, make, transport and then discard clothes has a huge social and environmental impact. This book covers responsible business practices and sustainability in the fashion industry from the raw fibre stage, through production, to the point of customer consumption. The concepts of responsibility and sustainability are fast becoming essential factors in business decisions and Responsible Supply Chain Management leads the reader through the multiple stages in the supply chain that can impact on business strategy. A perfect resource for students studying fashion and for those working in the sector who wish to identify the latest thinking as they plan sustainability strategies, the book is divided into four clear sections. The first introductory part of the book examines sustainability in the supply chain by identifying the main three pillars of sustainability (social, economic and environmental) and considers which fashion brands are innovating in this area. Part two looks at fashion logistics and supply chain operations by assessing fibre, yarn and fabric considerations, logistical issues for both garment production, and service delivery, stock control, transportation, barriers and risks. The third part develops the logistics theme further by identifying recent trends and case studies that highlight agility and lean management structures, and the application of transparency enhancing RFID. This section further applies modelling and simulation techniques from the automotive and pharmaceutical industries to the fashion sector. The final part considers how sustainability can be embedded into the multi-tiered fashion supply chain and its selling environment.

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 fossil fuels, 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 now be included by any organization in its decision-making strategies to protect the environment and the health of the community. 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 diagnosis 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 Aspect of Sustainable Supply Chain Management. 4. Sustainable Supply Chain Management Balanced Scorecard. A about the Authors: Joëlle Morana is Lecturer in management science, attached to the Laboratoire d’Économie des Transports (TransportEconomy Laboratory) at University Lumière Lyon II in France. Her fields of research concern economic, environmental and societal logistics.

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
Read Book Sustainable Logistics And Supply Chain Management Principles And Practices For Sustainable Operations And Management

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.

Copyright code: 1493581e9e86af239bbe03bb3e367ef0