Supply Chain Management And Reverse Logistics 1st Edition

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. The study of logistics and supply chain management become a trending topic recently. Researcher and practitioners have been working to elaborate the concept, strategy, framework and application of logistics and supply chain management in industrial operations. Thus, the competition is not between firms any more but it is all about logistics and supply chain management strategy competition. The progress of world wide regulations and law, global completion, the increasing demand from customers in social and environmental considerations and the sustainability issues has forced researchers and industrial practitioners to expand the perspective on beyond logistics and supply chain management concept. Reverse logistics and green supply chain management are such the innovative ideas for researcher to discuss and for industry practitioners to adopt. This book attempts to describe the concept of supply chain management and logistics in traditional system and figure out the progress of green supply chain management and reverse logistics study. The first two chapters of this book overviews the concept of supply chain management in both perspective of strategic and operational levels based supply chain management’s business process and supply chain management elements. The last two chapters of this book give more attention on these areas: green supply chain management and reverse logistics specifically on the previous study has been done by researchers. The overview and review of green supply chain management and reverse logistics in this book would help readers to understand more about the concept of logistics and supply chain management and would give new directions of further research in green supply chain management and reverse logistics.

Who are the actors involved in your reverse supply chain management? How should companies select business strategies for the reverse supply chains to realize and maintain its efficiency and effectiveness? What are the big companies that manage reverse logistics reverse supply chain? How to optimize reverse supply chains considering economic and environmental factors/costs? What is the leading differentiator for your reverse supply chain? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, "What are we really trying to accomplish here? And is there a different way to look at it?" This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc. - they are the people who rule the future. They are the person who asks the right questions to make Reverse Supply Chain investments work better. This Reverse Supply Chain All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Reverse Supply Chain Self-Assessment. Featuring 953 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Reverse Supply Chain improvements can be made. In using the questions you will be better able to: - diagnose Reverse Supply Chain projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Reverse Supply Chain and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Reverse Supply Chain Scorecard, you will develop a clear picture of which Reverse Supply Chain areas need attention. Your purchase includes access details to the Reverse Supply Chain self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Reverse Supply Chain Checklists - Project management checklists and templates to assist with implementation - INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

The second edition of this popular textbook presents a balanced overview of the principles of supply chain management. Going beyond the usual supply chain text, Principles of Supply Chain Management not only details the individual components of the supply chain, but also illustrates how the pieces must come together. To show the logic behind why supply chain management is essential, the text examines how supply chains are evolving, looks ahead to new developments, and provides a balanced look at supply chains with a focus on both the customer side and the supplier side of supply chains. See What's New in the Second Edition: Expanded coverage of current topics such as e-commerce, risk management, outsourcing and reshoring, sustainability, project management, and data analytics Increased emphasis on how customers are becoming more influential in steering product design Additional coverage of the use of data analytics to evaluate customer preferences and buying patterns A new chapter devoted to logistics and its increasing importance in supply chains Company profiles of organizations with effective supply chains that illustrate the main theme of each chapter A "Hot Topic" for each chapter, providing a description of a critical management issue to stimulate class discussion A complete set of instructor materials for each chapter, including presentation slides, test banks, class exercises, discussion questions, and more From the point of distribution to the final customer, all the way back to the point of origin at the mine or farm, the text provides examples and case histories that illustrate a proven approach for achieving effective supply chain integration. This self-contained resource provides readers with a realistic appraisal of the state of the art in supply chain management and the understanding needed to build and manage effective supply chains in a wide range of industries. Most importantly, it emphasizes the need for building and maintaining collaboration among all members of the supply chain.

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.

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.

Sustainable Policies in Private Enterprises and Public-Sector Institutions: Quality Management in Reverse Logistics. This book presents scheduling with a medium- and short-term focus, which makes it possible to capitalize on fleeting market opportunities while simultaneously working to reconcile economic and environmental priorities. It introduces a new mixed-integer approach to hierarchical discrete-time and continuous-time scheduling, combining aspects of production and recycling, forward and reverse logistics as well as emissions trading for multi-stage supply chain networks. Problem-specific variants of relax-and-fix heuristics and genetic algorithms are also proposed. Given its scope, the book provides a range of practical tools and new perspectives for researchers and professionals in the field of supply chain management. 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 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. If you’re a manager of a supply chain operation, or a student learning about supply chain management, this book will provide not only an overview of supply chain management but also a framework for subsequent, more detailed study in various aspects of supply management. This book reviews the evolution of supply chain management concepts and discusses trends in global markets and strategic competitiveness. It then focuses on the major issues involved in managing a competitive supply chain including: forecasting, inventory management, distribution, dealing with uncertainty, reverse logistics, and customer service. Coverage of the dynamic, evolving issues pertaining to supply chains that affect the global business community concludes the book. With this book in hand, you’ll be better equipped to conceptualize the management of supply chains as a collection of business processes; identify primary and secondary value chain processes; distinguish between the umbrella term, “supply chain management,” and its component functions; and understand the basic tools of forecasting and the need for accurate data and forecasts on which to base supply chain management decisions. Going beyond the usual supply chain text, Principles of Supply Chain Management not only details the individual components of the supply chain but also illustrates how the pieces must come together. Providing the logic behind why supply chain management is essential, the text examines how supply chains are evolving, looks ahead to future developments, and also provides a balanced look at supply chains with a focus on where it needs to be—the customer. It also: Describes the forward supply chain (from the supplier to the customer) and the reverse supply chain (recycling) Reviews contemporary sustainability concepts including triple bottom line, cradle-to-grave, and cradle-to-cradle Includes extensive discussions on retailing, distribution, and manufacturing topics Details supply chain flows of physical goods, information, and funds Highlights the need for coordinated change in technology, infrastructure, and cultures among supply chain members From the point of distribution all the way back to the point of origin, the text provides examples and case histories that illustrates a proven approach for achieving effective supply chain integration. This self-contained resource provides readers with a realistic appraisal of the state of the art in supply chain management and the understanding needed to build and manage effective supply chains in a wide-range of industries. Most importantly, it emphasizes the need for building and maintaining cooperation and collaboration among all members of the supply chain.
one regression analysis was used to analyse the relationship between Green supply chain management practice and performance of Government Hospitals. The finding were represented in tables. It emerged that there is a significant relationship between green supply chain practice and performance. Data was collected using a questionnaire, that was administered through drop and pick later method. Percentages and frequencies were used to analyse the first objective, while objective two and three correlation and regression methods were utilized. Findings from analysis of objective one indicated that most of the government hospitals in Nairobi had implemented a number of green supply chain management practices. The study focussed on Government Hospitals in Nairobi County, as given in the ministry of health website. The study confirmed that Green supply chain practices are relevant in the performance of supply chains. The study recommends that hospitals should empower and educate their employees on the importance of efficient waste management and reverse logistics approaches to enhance green supply chain. A major limitation of the study was that, it only studied Government health facilities within Nairobi County. Another limitation of the study was that, it did not highlight the suppliers’ willingness to participate in aspects of green supply chain management. Suggestions for further research would be to establish the impact of reverse logistics on efficient product consumption along the supply chain. Another area of future research would be to evaluate suppliers’ willingness to conform to consumers’ eco design, and its impact on performance.

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. 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 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.

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 Kersten, 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.

A brand new collection of cutting-edge sustainable supply chain solutions... 3 authoritative books, now in a convenient e-format, at a great price! 3 authoritative eBooks deliver state-of-the-art guidance for leveraging supply chain sustainability to maximize business value Organizations that prioritize sustainability are well positioned to increase profitability, reduce risk, and attract better customers, talent, and investors. This unique 3 eBook package brings together all the techniques, best practices, and case studies you need to make sustainability work throughout your supply chain. In The Lean Sustainable Supply Chain, Robert Palevich illuminates the business benefits of combining “lean” and “green,” offering start-to-finish guidance for redesigning company infrastructure and technologies to achieve these benefits. Through a comprehensive case study, he shows how to manage change, innovation, talent, execution, inventory, warehousing, and transportation; integrate supply chain sustainability into business scorecards; make more effective use of 3PLs, information systems, and much more. He systematically addresses key technical issues ranging from forecasting methodologies and supplier integration to carbon tracking and quantifying lean savings. Next, in Creating a Sustainable Organization, Peter Soyka shows how to choose the right sustainability strategies, and then manage and measure them well. Soyka's actionable guide bridges the disparate worlds of the EHS/sustainability professional and the investor/analyst. Discover what the data shows about linkages between sustainability and value... how to manage key stakeholder relationships influencing corporate response to EHS and social equity issues... how to effectively manage sustainability throughout the business... how to evaluate sustainability posture and performance from the standpoint of external investors and internal management... how to maximize the influence of organizational actors focused on sustainability, and much more. Finally, the Sustainability in Supply Chain Management Casebook is the first comprehensive collection of original case studies on building sustainability into the supply chain. Steven Leon covers a wide spectrum of social, economic and environmental issues, as well as new areas such as closed-loop supply chains. Topics include strategy, implementation, decision making, transportation, supplier relationships, collaboration, lean, continuous improvement, finance/economics, worker safety and rights, procurement, production, delivery, packaging, logistics, reverse logistics, and global supply chains. Each case study is supported with an authoritative introduction, teaching notes, and Q-and-A sections. Whatever your role in the sustainable supply chain, this collection will help you transform its promise into reality. From world-renowned sustainable supply chain experts Robert Palevich, Peter A. Soyka, Stephen M. Leon ENTERPRISE SUPPLY CHAIN MANAGEMENT Integrating Best-in-Class Processes is supply chain management all about forecasting? Or is it just a warehousing and transportation function? Demystifying the mystery supply chain management is for many, Enterprise Supply Chain Management: Integrating Best-in-Class Processes offers a comprehensive look at the role of this field within your own organization. Written by industry leader Vivek Sehgal, this book invites you to evaluate your current supply chain practices and leverage its best in class concepts to your own challenges. Drawing from the author's abundant research and analysis, this resourceful book shows you how to manage a supply chain across an enterprise, encompassing technological, financial, procurement, and operational issues. You will find in this book a thoroughly functional view of supply chain, so you can readily understand the meaning of processes and where they fit into your company’s big picture. This essential book covers: A primer on supply chain and finance Elements of a supply chain model The scope of this supply chain Demand and supply planning Supply chain design Transportation and warehouse management Supply chain collaboration Reverse logistics management Supply chain technology Whether you are a business manager, an IT manager, or a supply chain student, if you are looking for more of a primer on supply chain and finance Elements of a supply chain model The scope of this supply chain Demand and supply planning Supply chain design Transportation and warehouse management Supply chain collaboration Reverse logistics management Supply chain technology Whether you are a business manager, an IT manager, or a supply chain student, if you are looking for more of a comprehensive understanding of what each of the supply chain processes in your organization brings to the table and how each functions as part of the whole, Enterprise Supply Chain Management: Integrating Best-in-Class Processes is for you. Immensely functional on all aspects of supply chain management, this guide clearly explains how each process works and the relationships among them, allowing you to start implementing best-in-class approaches in your organization.

Closed-loop supply chain activities such as remanufacturing, recycling, dismantling for spare parts, and reverse logistics have helped many companies tap into new revenue streams by finding secondary markets for their products, all while reducing their overall carbon footprint. A comprehensive yet concise presentation of closed-loop supply chain processes, Closed-Loop Supply Chains: New Developments to Improve the Sustainability of Business Practices investigates the state of the art in this rapidly growing and environmentally significant field. Written by academic experts, in language that is accessible to practitioners, this reader-friendly reference examines recent research and case studies of companies running profitable reuse/remanufacture/recycling operations in various industries. It illustrates profitable
practices in returned and recovered products, and clearly explains how to: design a reverse logistics network, conduct production planning, implement effective marketing strategies for recovered products, and apply closed-loop supply chain strategies in other industries besides manufacturing. From product development to materials to assembly and profitability, this authoritative resource illustrates the impact of these processes across all aspects of the supply chain. It provides a business perspective of how to properly implement these processes in your company to achieve profitable and sustainable operations in a more environmentally friendly manner. It also: Investigates strategic decisions companies face in regard to the secondary market for their products, including opportunity costs Examines tactical issues firms will face once the decision to remanufacture has been made, including how to market remanufactured products Summarizes the key characteristics and practices in a variety of industries where remanufacturing has been successful Explains how to conceptualize and manage changes due to switching to a closed-loop supply chain Demonstrates how to handle changing legislation Designed for ease of reference, each chapter covers a specific topic—in a completely self-contained manner—allowing readers to quickly and easily reference the chapters of particular relevance to their industry and situation. Global Logistics and Supply Chain Management is a comprehensive, fully up-to-date introduction to the subject. Addressing both practical and strategic perspectives, this revised and updated fourth edition offers readers a balanced and integrated presentation of Logistics and Supply Chain Management (LSM)concepts, practices, technologies, and applications. Contributions from experts in specific areas of LSM provide readers with real-world insights on supply chain relationships, transport security, inventory management, supply chain designs, the challenges inherent to globalization and international trade, and more. The text examines how information, materials, products, and services flow across the public and private sectors and around the world. Detailed case studies highlight LSM practices and strategies in a wide range of contexts, from humanitarian aid and pharmaceutical supply chains to semi-automated distribution centers and port and air cargo logistics. Examples of LSM in global corporations such as Dell Computer and Jaguar Land Rover highlight the role of new and emerging technologies. This edition features new and expanded discussion of current and emerging topics including sustainability, supply chain vulnerability, and reverse logistics, and places greater emphasis on operations management. Provides a review of current and potential research in green management and control. Provides a comprehensive guide to the principles and practices of sustainable logistics operations and responsible management of the entire supply chain. Winner of IIE Book of the Month, December 2013 The introduction of reverse supply chains has created many challenges in network design, transportation, selection of used products, selection and evaluation of suppliers, performance measurement, marketing-related issues, end-of-life (EOL) alternative selection, remanufacturing, disassembly, and product acquisition management, to name a few. Under the guidance of an expert editor and with contributions from pioneers in the field, Reverse Supply Chains: Issues and Analysis addresses several important issues faced by strategic, tactical, and operation planners of reverse supply chains, using efficient models in a variety of decision-making situations providing easy-to-use mathematical and/or simulation modeling-based solution methodologies for a majority of the issues. The book introduces the basic concepts of reverse logistics and systematically analyzes the literature by classifying more than 400 published references into five major types of product returns. It then identifies the basic activities and scope of reverse logistics, examining its drivers and barriers as well as major issues and challenges. The chapters cover metrics for quantitatively comparing competing new-product designs for end-of-life disassembly on a reverse production line, how to use the theory of constraints thinking processes to determine the core problems in reverse logistics, and an integrated multi-criteria decision-making methodology using Taguchi loss functions AHP (Analytic Hierarchy Process) and fuzzy programming. They explore issues associated with remanufacturing and green and resilient supply chain management and propose system modeling based on graph theory and network flows application to analyze material resource flows in the life cycle of a product. Reverse supply chains is a new and fast growing area of research and only a handful of books are on the market, however those books discuss specific projects rather than provide a cohesive focus on the topics. This book will provide a foundation and understanding of the topic and also highlight how current issues can be approached in a decision-making situation—using the appropriate technique. Business practices are constantly evolving in order to meet growing customer demands. By implementing fresh procedures through the use of new technologies, organizations are able to remain competitive and meet the expectations of their customers. Designing and Implementing Global Supply Chain Management examines how various organizations have re-engineered their business processes in an effort to accommodate new innovations and remain relevant in a highly competitive global marketplace. Highlighting the creation of integrated supply chains and the emergence of virtual business communities, this publication is an appropriate reference source for students, researchers, and practitioners interested in trending approaches to external business functions used to efficiently respond to growing customer demands. Supply Chain Management Under Fuzziness presents recently developed fuzzy models and techniques for supply chain management. These include: fuzzy PROMETHEE, fuzzy AHP, fuzzy ANP, fuzzy VIKOR, fuzzy DEMATEL, fuzzy clustering, fuzzy linear programming, and fuzzy inference systems. The book covers both practical applications and new developments concerning these methods. This book offers an excellent resource for researchers and practitioners in supply chain management and logistics, and will provide them with new suggestions and directions for future research. Moreover, it will support graduate students in their university courses, such as specialized courses on supply chains and logistics, as well as related courses in the fields of industrial engineering, engineering management and business administration. Increasing legislative and environmental pressure requires businesses to become more responsive to products that either have been returned or that are at the end of their useful lives. Life cycles are getting shorter, and efficient handling can save large amounts of money since many materials can be extracted and reused or redistributed. Reverse Logistic Supply Chain Management (SCM) is a wide field in which several specialties are included. In general, operations and production management players use SCM to organize the problems and analyze the solution approaches. Due to these points, a reference which can encompass a range of problems and their modelling approaches is required. This book will contain three general sections of forward, reverse, intelligent, and uncertain problems. While the book provides different problems in the three commonly used categories in SCM, it is very helpful for the readers to find out, or adapt their own application studies to the ones given in the book and employ the corresponding modelling
approach.

This book addresses decision making in reverse logistics, which concerns the integration of used and obsolete products back into the supply chain as valuable resources. It covers a wide range of aspects, related to distribution, production and inventory management, and supply chain management. For each topic, it highlights key managerial issues in real-life examples and explains which quantitative models are available for addressing them. By treating a broad range of issues in a unified way, the book offers the reader a comprehensive view on the field of reverse logistics.

Supply Chain Management and Reverse Logistics
Springer Science & Business Media

This book focuses on supply chain management in emerging markets.

The authors present issues relating to supply chain development covering countries such as Brazil, China, the Czech Republic, Russia, Indonesia, Malaysia, Nepal, Turkey, Egypt and South Africa among others. Case studies and survey results are presented in chapters which explore practical solutions to these issues. The latter will be of interest not only to local and international managers, but also to students who are interested in emerging economies. The book covers manufacturing, retail and food chains at the local and international levels.

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,” “Analytical Research,” and “Empirical Research,” featuring peer-reviewed papers contributed by researchers from Asia, Europe, and the US. This is the first book 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 with 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 Apparel; Fashion Supply Chain Network Competition with Eco-labelling; Reverse Logistics as a Sustainable Supply Chain Practice for the Fashion Industry; Apparel Manufacturers’ Path to World-class Corporate Social Responsibility; Sustainable Supply Chain Management in the Slow-Fashion Industry; Mass Market Second-hand Clothing Retail Operations in Hong Kong; Constraints and Drivers of Growth in the Ethical Fashion Sector: The case of France; and Effects of Used Garment Collection Programmes in Fast Fashion Brands.

Key Features:
Various stages, process cycles, strategies involved in SCM highlighted. Logistics emphasised as a crucial function of SCM. Dynamic flow of material, information and finance discussed as a key aspect of SCM.

Inhaltsangabe:
Introduction: As the world population is growing continuously and emerging markets are expanding, natural recourses are being used even more intensively. Because of the scarcity of natural resources, industry faces a changing business environment. Due to government regulations, companies nowadays must handle not only in terms of efficiency, but also of sustainable development and new market opportunities. Thus, with the progression of the logistics sector in recent years, supply chain management and especially the concept of reverse logistics have become more important for both, industry and science. By utilizing reverse logistics, companies aim at maximizing their product revenue while reducing the costs of product returns. Accordingly, implementing an effective concept of reverse logistics, while manufacturing environmentally friendly products, has become a strategic issue. In order to meet the requirements, companies are confronted with the problem of reducing the uncertainties regarding the quality, quantity and timing of the product returns. In this context, a high level of uncertainty leads to a strong increase in complexity compared to the traditional forward supply chains. Using modern computer-aided modelling techniques such as system dynamics, helps to counteract this complexity since they not only enable a better understanding of the dynamic behaviour of such complex systems but also allow an improved estimation of the impact of a changing environment and management decisions. This thesis contributes towards an improvement of the strategic decision making process in the field of reverse logistics.
logistics by providing a generic simulation model which can be used to analyse the influence of different environmental and economical policies with respect to prevailing market conditions. To achieve this objective, the following approach is proposed: In Chapter 2, the theoretical foundation of reverse logistics is characterized forming the framework for the subsequent analytical approach concerning the appropriate model development. For this purpose, first, an overview of the state of the art concerning the processes and influencing factors within the field of reverse logistics is provided. This is achieved by describing the theoretical background of the topic, including a characterization of the impact of individual reverse logistic activities on each other and on their environment. Afterwards, current challenges and trends when [...]