Rommert Dekker Moritz Fleischmann Karl Inderfurth Luk N. Van Wassenhove Editors

Reverse Logistics

Quantitative Models for Closed-Loop Supply Chains



Gerald Oeser

Reverse Logistics Rommert Dekker, Moritz Fleischmann, Karl Inderfurth, Luk N. van Wassenhove, 2013-06-05 Reverse logistics concerns the integration of used and obsolete products back into the supply chain as valuable resources Economic marketing and legislative drivers increasingly are leading companies to take back and recover their products after use The arising product flows pose novel challenges for supply chain management This book addresses decision making in reverse logistics 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 Closed-Loop Supply Chains Mark E. Ferguson, Gilvan C. Souza, 2010-04-21 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 Written by academic experts in language that is accessible to practitioners this authoritative resource examines recent research and case studies of companies running profitable reuse remanufacture operations in various industries It illustrates profitable practices in returned and recovered products clearly explaining how to design a reverse logistics network conduct production planning implement effective marketing strategies and apply closed loop supply chain strategies in industries besides manufacturing From product development to materials to assembly and profitability this complete resource explores the impact of these processes across all aspects of the supply chain Circular Economy Supply Chains Lydia Bals, Wendy L. Tate, Lisa M. Ellram, 2022-04-19 Circular Economy Supply Chains highlights the need for cross industry flows and the need for different actors in circular value cycles This book intends to move beyond a buyer supplier view embracing a holistic network or ecosystem view to consider a cross industry system perspective

Managing Reverse Logistics Using System Dynamics: A Generic End-to-end Approach Martin Bonev, 2012-03 As legislations have become stricter and the competition on markets is getting stronger companies facing return flows strive for the implementation of efficient and cost effective reverse logistic procedures At the same time when managing reverse logistics they are not only confronted with a high degree of uncertainties concerning the quality quantity and timing or the product returns but also with a dynamically changing environment Various aspects such the increasing amount of return flows shorter repair and lead times as well as increasing disposal costs affect the reverse logistic system and need to be managed proficiently Additionally handling product returns requires supportive computer aided modelling tools that are capable of handling the dynamic and complex characteristics of the reverse logistic system and allow an improved estimation of the impact of a changing environment and management decisions For the purpose of this study the system dynamics modelling approach has been identified as particularly suitable for illustrating the system in question with a special focus on

understanding the dynamic behaviour over time A generic system dynamics model has been exemplarily created and simulated using the program iThink The model comprises end to end processes of the main reverse logistic activities related to customer returns and has been used for studying the strategic design and optimization of the reverse logistic system In order to consider relevant uncertainties as well as environmental concerns and economic efficiency representative policies have been applied where inter alia with the help of the graphical illustration of the processes effective strategies could be implemented A general evaluation of the system dynamics methodology has revealed the significant advantages of using supportive modelling techniques for strategic decision making Particularly for complex systems that change over time such as reverse logistics applying appropriate computer aided modelling tools in order to anticipate the overall effect on processes caused by varying surroundings has proven essential An effective utilization of system dynamics may significantly reduce the forecasting and planning risks within individual frameworks such as capacity planning Moreover the generic approach allows the application of the model to any other industry that is characterized by uncertain capacity utilization and varying technical economical and legal conditions Supply Chain Management on Demand Chae An, Hansjörg Fromm, 2006-01-16 During recent years competitive pressures and short product lifecycles have caused many manufacturing and retail companies to focus on supply chain management practices and applications Continuing shifts in the geopolitical situation and emerging markets have opened up new business opportunities and at the same time kept companies busy revising their supply chain structures manufacturing locations warehouse locations inbound logistics and distribution operations. This has led to an increased demand in strategic supply chain planning tools such as supply chain simulators and location optimization tools New techniques and practices for highly efficient supply chain management made possible by the rapid progress in information and communication technologies are explained in this book It is written by supply chain researchers consultants and supply chain practitioners who have not only developed the practices but have deployed these practices in various supply chains at IBM and other companies Strategic Closed-Loop Supply Chain Management Baptiste Lebreton, 2006-11-22 Closed loops depict supply chains for which Original Equipement Manufacturer reintegrate their returned products into their own production network While the reverse logistics research has extensively addressed the technical aspects of product reintegration very few insights are available on whether OEMs should commit themselves to a closed loop The structure of the monograph is aligned to the decision making process of Original Equipment Manufacturers willing to investigate the potential of closed loops This decision making process is structured around fundamental questions managers are expected to answer prior to running a circular supply chain Does a closed loop fit with the corporate objectives Is it profitable to run a closed loop How should OEMs deal with free riders competition Which product technology location setup leads to a profit maximizing supply chain The planning framework is finally applied to two case studies from the tire and the computer Integrating Selected Concepts and Methods to Enhance Corporate Sustainability Christian Nuß, 2016-09-30 The industry

striving for sustainable development is one of the great challenges of the 21st century As a result on a corporate level companies are increasingly forced to broaden their scope by considering environmental and social aspects in their decision making processes to ultimately remain competitive and prospering However the incorporation of sustainability into both qualitative and quantitative corporate decision making is challenging and complex Against this background the present doctoral dissertation reveals ways to implement and enhance corporate sustainability. This is done by means of integrating selected methods and concepts namely the concepts of transdisciplinarity reverse logistics and green information systems as well as methods and tools from the discipline of operations research Within seven research contributions qualitative and quantitative approaches are developed that improve corporate decision making to achieve sustainability goals Management Dirk Mattfeld, Thomas Spengler, Jan Brinkmann, Martin Grunewald, 2015-08-10 This contributed volume contains the selected and thoroughly reviewed research papers presented at the conference on logistics management LM2015 in Braunschweig Germany The conference of the special interest group in logistics of the German Academic Association for Business Research VHB was held in conjunction with the special interest group on production of the VHB Thus the papers reflect the current state of the art in logistics and supply chain management while focusing especially on aspects of production logistics i e facility layout inventory management line configuration or flexible production Zhang, Runtong Zhang, Juliang Zhang, 2013-03-19 Information and communication technology has helped to provide a more effective network infrastructure and development platform for logistics and service operations In order to meet the needs of consumers and particularly to promote low carbon development processes new types of services will also emerge LISS 2012 is a prime international forum for both researchers and industry practitioners to exchange the latest fundamental advances in the state of the art and practice of logistics informatics service operations and service science Experts and researchers from related fields will discuss current issues and future development opportunities discuss and analyze developing trends and exchange the latest research and academic thought The theme of the conference is Logistics and Service Science based on the Internet of Things Computational Intelligence in Remanufacturing Xing, Bo, Gao, Wen-Jing, 2013-12-31 In attempts to reduce greenhouse gas emissions many alternatives to manufacturing have been recommended from a number of international organizations Although challenges will arise remanufacturing has the ability to transform ecological and business value Computational Intelligence in Remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing related issues results and lessons from specific applications while highlighting future development and research This book is an essential reference for students researchers and practitioners in mechanical industrial and electrical engineering Handbook of Research on Supply Chain Management for Sustainable Development Akkucuk, Ulas, 2018-05-11 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 redesign their operations more

effectively The Handbook of Research on Supply Chain Management for Sustainable Development is a critical scholarly resource that examines academic and corporate interest in sustainability in all facets of business management Featuring coverage on a wide range of topics such as green supply chains environmental standards and production planning this book is geared toward professionals researchers and managers seeking current and relevant research on optimizing supply chains to ensure fair labor practices lower emissions and a cleaner environment Risk-Pooling Essentials Gerald Oeser, 2015-01-14 This book provides comprehensive and concise definitions of risk pooling and risk pooling methods a straightforward statistical explanation and a value chain oriented framework for analyzing risk pooling methods Risk pooling mitigates demand and lead time uncertainty in logistics and supply chain management The author also provides readers with a downloadable computerized decision support tool to compare and choose appropriate risk pooling methods and to apply them in companies Students and practitioners of logistics and supply chain management will find this book particularly useful Scheduling in Green Supply Chain Management Wolfgang Albrecht, 2021-04-01 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 **Dynamic Inventory Management in Reverse Logistics** Rainer Kleber, 2007-02-02 The integration of product recovery into regular production processes enables new opportunities for cost savings In case of a dynamic planning situation for instance when dealing with seasonality or the product life cycle new motives for keeping stock arise The work aims to identify those motives and to describe their effects by using methods of optimal control theory Research Methodologies in Supply Chain Management Herbert Kotzab, Stefan Seuring, Martin Müller, Gerald Reiner, 2006-01-16 For reseach in all subjects and among different philisopical paradigms research methodologies form one of the key issues to rely on This volume brings a series of papers together which present different research methodologies as applied in supply chain management This comprises review oriented papers that look at what kind of methodologies have been applied as well as methodological papers discussing new developments needed to successfully conduct research in supply chain management The third group is made up of applications of the respective methodologies which serve as examples on how the different methodological approaches can be applied All papers have undergone a review process to ensure their quality Therefore we hope that this book will serve as a valid source for current and future researchers in the field While the workshop on Research Methodologies in Supply Chain Management took place at the Supply Chain Management Center Carl von Ossietzky Univ sity in Oldenburg Germany it is based on a collaboration

with the Supply Chain Management Group of the Department of Operations Management at the Cop hagen Business School and the Department of Production Management at the Vienna University of Economics and Business Administration We would like to thank all those who contributed to the workshop and this book **Quality, IT and Business Operations** P.K. Kapur, Uday Kumar, Ajit Kumar Verma, 2017-10-01 This book discusses action oriented concise and easy to communicate goals and challenges related to quality reliability infocomm technology and business operations It brings together groundbreaking research in the area of software reliability e maintenance and big data analytics highlighting the importance of maintaining the current growth in information technology IT adoption in businesses while at the same time proposing process innovations to ensure sustainable development in the immediate future In its thirty seven chapters it covers various areas of e maintenance solutions software architectures patching problems in software reliability preventive maintenance industrial big data and reliability applications in electric power systems. The book reviews the ways in which countries currently attempt to resolve the conflicts and opportunities related to quality reliability IT and business operations and proposes that internationally coordinated research plans are essential for effective and sustainable development with research being most effective when it uses evidence based decision making frameworks resulting in clear management objectives and is organized within adaptive management frameworks Written by leading experts the book is of interest to researchers academicians practitioners and policy makers alike who are working towards the common goal of making business operations more effective and sustainable Multiple Criteria Decision Making Applications in Environmentally Conscious Manufacturing and Product Recovery Surendra M. Gupta, Mehmet Ali Ilgin, 2017-10-17 In order to ensure environmentally responsible production and disposal of products local governments are imposing stricter environmental regulations some of which even require manufacturers to take back their products at the end of the product s useful life These government regulations together with increasing environmental awareness have forced manufacturers to invest in environment conscious manufacturing The multiple Criteria Decision Making Techniques presented in this book can be employed to solve the problems of environment conscious manufacturers in product design logistics disassembly and remanufacturing

Industrial Engineering in the Industry 4.0 Era Fethi Calisir, Hatice Camgoz Akdag, 2017-12-28 This book gathers extended versions of the best papers presented at the Global Joint Conference on Industrial Engineering and Its Application Areas GJCIE held in Vienna on July 20 21 2017 They offer a snapshot of the current state of the art in three main related fields of research namely industrial engineering engineering and technology management and healthcare systems engineering management The book is intended to integrate theory and practice and to merge different perspectives from the academic to the industrial and governmental one **Proceedings of the Sixteenth International Conference on Management**Science and Engineering Management - Volume 1 Jiuping Xu, Fulya Altiparmak, Mohamed Hag Ali Hassan, Fausto Pedro García Márquez, Asaf Hajiyev, 2022-07-13 This book covers many hot topics including theoretical and practical research in

many areas such as dynamic analysis machine learning supply chain management operations management environmental management uncertainty and health and hygiene It showcases advanced management concepts and innovative ideas The 16th International Conference on Management Science and Engineering Management 2022 ICMSEM will be held in Ankara Turkey during August 3 6 2022 ICMSEM has always been committed to promoting innovation management science M S and engineering management EM academic research and development The book provides researchers and practitioners in the field of Management Science and Engineering Management MSEM with the latest cutting edge thinking and research in the field It will appeal to readers interested in these fields especially those looking for new ideas and research directions

Supply Chain Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-12-31 In order to keep up with the constant changes in technology business have adopted supply chain management to improve competitive strategies on a strategic and operational level Supply Chain Management Concepts Methodologies Tools and Applications is a reference collection which highlights the major concepts and issues in the application and advancement of supply chain management Including research from leading scholars this resource will be useful for academics students and practitioners interested in the continuous study of supply chain management and its influences

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Table of Contents Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains

- 1. Understanding the eBook Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - The Rise of Digital Reading Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop

Supply Chains

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Personalized Recommendations
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains User Reviews and Ratings
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains and Bestseller Lists
- 5. Accessing Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains Free and Paid eBooks
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains Public Domain eBooks
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains eBook Subscription Services
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains Budget-Friendly Options
- 6. Navigating Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains eBook Formats
 - o ePub, PDF, MOBI, and More
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains Compatibility with Devices
 - Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Highlighting and Note-Taking Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Interactive Elements Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply

Chains

- 8. Staying Engaged with Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
- 9. Balancing eBooks and Physical Books Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Setting Reading Goals Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Fact-Checking eBook Content of Quamtitative Approaches To Reverse Logistics Quantitative Models For Closedloop Supply Chains
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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