Handbook of Research on the Applications of International Transportation and Logistics for World Trade

Sustainable Production and Logistics

Supply Chain Secrets

Adaptive Supply Chain Management

Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future

The Practice of Supply Chain Management: Where Theory and Application Converge

Surviving Supply Chain Integration

Supply Chain Construction

Industrial Engineering in the Industry 4.0 Era

Supply Chain Network Design

Optimization Techniques for Problem Solving in Uncertainty

Supply Chain Management and Advanced Planning

Strategic Supply Chain Management in Process Industries

Warehouse Management

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Supply Chain Management For Dummies

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Supply Chain Network Design and Analysis of Closed-Loop Supply Chain Networks

Supply Chain Network Design (Collection)

Applications of Contemporary Management Approaches in Supply Chains

Design and Analysis of Closed-Loop Supply Chain Networks

Supply Chain Network Design Trends in Supply Chain Design and Management

Supply Chain Management and Optimization in Manufacturing

Emergency Solutions for Future Manufacturing Systems

Supply Chain Network and Business Process Orientation

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Applications of Contemporary Management Approaches in Supply Chains

Dynamic Supply Chains

A guide to help readers meet the demands of an evolving competitive business environment, Modeling of Responsive Supply Chain outlines novel concepts and strategies for implementing a fully integrated system of business improvement methodologies. This self-contained reference covers various key aspects of supply chain management, which is crucial to boosting industrial growth in the face of competition.
Supply Chain Network Design Applying Optimization And Analytics To The Global Supply Chain Ft Press Operations Management

of expanding globalization in the manufacturing and transportation sectors. The book focuses on topics that could potentially improve the free flow of goods and services between nations by helping users assess the performance of logistic systems deployed to achieve this end. Chapters present a conventional and evolutionary approach to coordinating all elements of the supply chain to optimize an enterprise’s competitive advantage. The authors explore different models associated with transportation, facility location, and assignments, as well as planning and scheduling. They also address diverse technologies, such as RFID tags used to monitor product flow within the supply chain network. This book addresses the importance of: Recognizing responsiveness as a metric of supply chain performance Domain interfaces for solving the optimization problem by making supply chains more responsive Coordination through contracts to enhance responsiveness System dynamics methodology to achieve responsiveness, as well as management principles, control theory, and computer simulation. The use of different types of technologies to build a better supply chain that enhances higher responsiveness. Few, if any, single volumes provide the detailed explanation of practical and conceptual approaches found in this book. It covers the entire spectrum of topics and will be equally useful as a reference for scholars and graduate students and as a compendium for practitioners dealing with real-life problems in contemporary supply chain management.

Sustainable Production and Logistics With future competitive landscape shifting from competition between companies themselves to trading partner networks, understanding and mastering process design and change is becoming more critical than ever. In order to succeed, companies are starting to weave their key business processes into hard-to-imitate strategic capabilities that distinguish them from their competitors.

Supply Chain Networks and Business Process Orientation: Advanced Strategies and Best Practices will help you "connect the dots" by offering insights on how to achieve greater integration within your supply chain networks and realize the performance possible with today's interaction economics. Based on exhaustive research of supply chains and newly successful networked corporations in the US and Europe, the authors demonstrate how your company can be successful in building an effective supply chain network. Prescriptive benchmarking models illustrate proven strategies, tactics, and methods for achieving a superior level of supply chain performance.

Supply Chain Secrets ‘Dynamic Supply Chains is a masterpiece in the field of supply chain management’ Dr Rakesh Singh, Chairman, Institute of Supply Chain Management, India Dynamic supply chains are at the heart of your business. You need to get them right. Are your supply chains equipped to compete for a faster, more flexible future? Supply chains are not just part of your business: in many ways they are your business. They are made up of living, active people, and to really get supply chains right you need to capture the dynamism that people can bring to the flow of goods and services, both inside and outside your business. In this third edition of Dynamic Supply Chains, renowned international expert John Gattorna gives you a practical and effective new model for supply chains that will help you get closer to your customers and suppliers, and set your business on a new path to growth. John’s ‘outside-in’ philosophy is based on ‘Design Thinking’ principles, underpinned by business analytics, visualization, and the passion to get things done. This is indeed, supply chains by design.

Adaptive Supply Chain Management

Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future 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.

The Practice of Supply Chain Management: Where Theory and Application Converge This book presents the latest developments in optimization and optimal control models; exact, approximate and hybrid methods; and their applications in lean and green supply chains. It examines supply chain network design and modeling, closed loop supply chains, and lean, green, resilient and agile or responsive networks, and also discusses corporate social responsibility and occupational health and safety. It particularly focuses on supply chain management under uncertainty – employing stochastic or nonlinear modeling, simulation based studies and optimization – multi-criteria decision-making and
Supply Chain Management For Dummies, 2nd Edition guides you to an understanding of what a supply chain is and how to leverage this system effectively across your business, no matter its size or industry. The book helps you learn about the areas of business that make up a supply chain, from procurement to operations to distribution. And it explains the importance of supporting functions like sales, information technology, and human resources. You’ll be prepared to align the parts of this system to meet the needs of customers, suppliers, and shareholders. By viewing the company as a supply chain, you’ll be able to make decisions based on how they will affect every part of the chain. To help you fully understand supply chains, the author focuses on the Supply Chain Operations Reference (SCOR) model. This approach allows all types of professionals to handle their work demands. • Use metrics to improve processes • Evaluate business risks through analytics • Choose the right software and automation processes • Plan for your supply chain management certification and continuing education A single business decision in one department can have unplanned effects in one or more areas, such as purchasing or operations. Supply Chain Management For Dummies helps you grasp the connections between business lines for wiser decision making and planning.

Industrial Engineering in the Industry 4.0 Era 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 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.

Supply Chain Network Design 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. 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.

Optimization Techniques for Problem Solving in Uncertainty Supply Chain Management illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

Strategic Supply Chain Management in Process Industries Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio-economic turbulence characterized by complexity as well as the speed of change in causal interconnections.
In this socio-economic environment, companies are forced to seek new technological and organizational solutions. In this context, two main characteristics emerge as key properties of a modern automation system: agility and distribution. Agility because systems need not only to be flexible in order to adjust to a number of a-priori defined scenarios, but rather must cope with unpredictability. Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks. Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS’04 conference, which was held in Vienna, Austria in September 2004 and sponsored by the International Federation for Information Processing (IFIP).

Warehouse management business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

Strategic Optimization of Medium-Sized Enterprises in the Global Market: Computational Intelligence (CI) is a term corresponding to a new generation of algorithmic methodologies in artificial intelligence, which combines elements of learning, adaptation, evolution, and approximate (fuzzy) reasoning to create programs that can be considered intelligent. Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods presents computational intelligence methodologies for addressing supply chain issues. Emphasis is given to techniques that provide effective solutions to complex supply chain problems and exhibit superior performance to other methods of operations research.

Supply Chain Management For Dummies: Adaptive Supply Chain Management develops new viewpoints on the SCM goal paradigm, problem semantics, and decision-making support. Drawing upon years of research and practical experience, and using numerous examples, the authors unite conceptual considerations of supply chain design and conceptual engineering and solutions to real-world problems. Adaptive Supply Chain Management provides advanced insights into dynamics, complexity, and uncertainty in supply chains from the perspectives of systems analysis, control theory, and operations research. It also considers the impact of adaptability, stability, and crisis-resilience. Providing readers with a comprehensive view of advanced SCM concepts, constructive mathematical techniques and models, Adaptive Supply Chain Management is an invaluable text for practitioners and researchers who specialize in SCM and operations research.

Circular Economy for the Management of Operations: Using strategic supply chain network design, companies can achieve dramatic savings from their supply chains. Now, experts at IBM and Northwestern University have brought together both the rigorous principles and the practical applications you need to master. You’ll learn how to use supply chain network design to select the right number, location, territory, and size of warehouses, plants, and production lines; and optimize the flow of all products through your supply chain even if it extends around the globe. The authors present better ways to decide what to manufacture internally, where to make these products, which products to outsource, and which suppliers to use. They guide you in more effectively managing trade-offs such as cost vs. service level, improving operational decision-making by integrating analytics throughout supply chain management; and re-optimizing regularly for even greater savings. Supply Chain Network Design combines best practices, the latest methods in optimization and analytics, and cutting-edge case studies: everything you need to maximize the value of supply chain network design. For all supply chain executives, managers, strategists, and analysts; and for all students, instructors, and researchers in advanced supply chain management and/or logistics courses.

Supply Chain Management in Manufacturing and Service Systems: Closed loop supply chains and their management have become mandatory for firms to stay competitive and profitable. This book provides insights into designing supply chain networks by understanding and incorporating key...
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return parameters into the network design, which will affect profitability. The book discusses how customer categories and their acceptance behavior are incorporated into the network design. It also shows how to analyze the interaction of parameters on supply chain network design and profitability, offers modeling framework for incorporating uncertainties in the return product parameters, and shows how to design a robust network. Invaluable for managers in designing a sustainable, robust, and profitable supply chain network ideal for managers, practitioners, and researchers in the area of supply chain network design and optimization.

Supply Chain Optimization, Management and Integration: Emerging Applications How to save your business millions!!! The international expert and author Rob O’Byrne gives his powerful and essential tips and insights based on over 1,200 client assignments across 22 countries. This book shows you how to find the greatest potential for massive savings and increased bottom line. You’ll learn how to access the big ticket items to reduce costs* 5 critical tips on measuring for superior performance* Balancing cost and service for more effective distribution* How to stop inventory investment blow outs* 3 key steps to developing a game winning supply chain strategy* The 5 key steps to improving warehouse effectiveness* A voiding the stuff that screws your supply chain performance

Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods A brand new collection of world-class supply chain design solutions... 3 authoritative books, now in a convenient e-format, at a great price! 3 authoritative eBooks deliver state-of-the-art guidance for designing and optimizing highly competitive global supply chains! This unique eBook package will help you design state-of-the-art supply chains that deliver rapid, quantifiable, and sustainable competitive advantage. The Encyclopedia of Operations Management is the perfect single-volume “field manual” for every supply chain or operations management practitioner and student. Nearly 1,500 well-organized, up-to-date definitions cover every facet of supply chain design, planning, management, and optimization. Next, in Reinventing the Supply Chain Life Cycle, Marc J. Schniederjans and Stephen B. LeGrand show how to optimize supply chains throughout their entire lifecycle: creation, growth, maturity, and decline! Reflecting up-to-the-minute “in-the-trenches” experience and pioneering research, this book illuminates the complex transformational processes associated with managing complex supply chains that involve complex products and services within ever-changing networks. They walk you through: starting, creating, and building new supply chains; realigning them for growth; adjusting to dynamic change, readjusting networks, building flexibility, and managing new risks. Next, they offer practical, realistic guidance for realigning “mature” supply chains, innovating, controlling costs; and smoothly managing declining demand. Throughout, they offer invaluable insights, tools, and examples for negotiation, performance measurement, anticipating change, improving agility, meeting commitments to social responsibility and the law; and more. Finally, in Supply Chain Network Design, four leading IBM and Northwestern University experts show how to use strategic supply chain network design to achieve dramatic new savings. They integrate rigorous principles and practical applications to help you select the right number, location, territory, and size of warehouses, plants, and production lines; and optimize the flow of all products through even the most complex global supply chain. You’ll find better ways to decide what (and where) to manufacture internally; and which products to outsource (and to whom). You’ll get help managing cost vs. service-level tradeoffs, using analytics to improve decision-making; and re-optimizing regularly for even more savings. Whatever your role in supply chain design, this collection will help you systematically optimize performance, customer value, and profitability. From world-renowned supply chain experts Arthur V. Hill, Marc J. Schniederjans, Stephen B. LeGrand, Michael Watson, Sara Lewis, Peter Cacioppo, and Jay Jayaraman

Global Supply Chain and Operations Management Supply Chain Management concerns organizational aspects of integrating legally separated firms as well as coordinating materials and information flows within a production-distribution network. The book provides insights regarding the concepts underlying APS, with special emphasis given to modelling supply chains and successfully implementing APS in industry. Understanding is enhanced through the use of case studies as well as an introduction to the solution algorithms used.

Supply Chain Network Design The managed flow of goods and information from raw material to final sale also known as a “supply chain” affects everything—from the U.S. gross domestic product to where you can buy your jeans. The nature of a company’s supply chain has a significant effect on its success or failure—as in the success of Dell Computer’s make-to-order system and the failure of General Motor’s vertical integration during the 1998 United Auto Workers strike. Supply Chain Integration looks at this crucial component of business at a time when...
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Product design, manufacture, and delivery are changing radically and globally. This book explores the benefits of continuously improving the relationship between the firm, its suppliers, and its customers to ensure the highest added value. This book identifies the state-of-the-art developments that contribute to the success of vertical tiers of suppliers and relates these developments to the capabilities that small and medium-sized manufacturers must have to be viable participants in this system. Strategies for attaining these capabilities through manufacturing extension centers and other technical assistance providers at the national, state, and local level are suggested. This book identifies action steps for small and medium-sized manufacturers-the “seed corn” of business start-up and development--to improve supply chain management. The book examines supply chain models from consultant firms, universities, manufacturers, and associations. Topics include the roles of suppliers and other supply chain participants, the rise of outsourcing, the importance of information management, the natural tension between buyer and seller, sources of assistance to small and medium-sized firms, and a host of other issues. Supply Chain Integration will be of interest to industry policymakers, economists, researchers, business leaders, and forward-thinking executives.

Supply Chain Network Design Using strategic supply chain network design, companies can drive consistent dramatic savings throughout their global supply chains. Logistics experts at IBM and Northwestern University have brought together the rigorous principles and the practical applications supply chain designers need to improve the flow of physical products across the globe.

Trends in Supply Chain Design and Management For over a decade, there has been an increasing interest in the use of supply chain methods to improve performance across the entire business enterprise. Numerous industries have recognized the importance of efficient supply chain integration, and, as a result, supply chain management has become a standard part of business practice. The Practice of Supply Chain Management: Where Theory and A Application Converge is a must-have volume for users of supply chain management methods, supply chain management researchers, and students in supply chain management. The objective of the book is to provide an overview of this important practice-research cycle, and it is organized into three sections: Core Concepts and Practices; Emerging Supply Chain Practices; and Supply Chain in Action. The focus of the book is on supply chain practice, but supply chain practice that has been heavily influenced by supply chain research. It is this synergy between research and practice that continues to stimulate new directions for research.

Supply Chain Management and Optimization in Manufacturing Circular-Economy is a new concept in operations management. Its goal is to redefine growth, focusing on positive benefits arising for society as a whole out of efficiencies such as designing waste out the operations process. This book will help practitioners use the proper strategy for effective adoption of Circular practices to use in their organization. Features: Provides a complete understanding of Circular-Economy practices Offers advanced mathematical models to help industry management adopt the correct practices Presents a deep understanding of cross-functional and customer-focused design thinking Covers how to develop sustainable practices in all types of activities within operations management. Circular Economy for the Management of Operations will be of interest to practitioners and researchers in engineering as well as business management.

Emerging Solutions for Future Manufacturing Systems This book introduces general supply chain terminology particularly for novice readers, state of the art supply chain management and optimization issues and problems in manufacturing. The book provides insights for making supply chain decisions, planning and scheduling through supply chain network. It introduces optimization problems, i.e. transportation of raw materials, products and location, inventory of plants, warehouses and retailers, faced throughout the supply chain network.

Supply Chain Networks and Business Process Orientation Supply chain management (SCM) is “the systemic, strategic coordination of the traditional business functions and the tactics across these business functions within a particular company and across businesses within the supply chain, for the purposes of improving the long term performance of the individual companies and the supply chain as a whole.”[2] It has also been defined as the “design, planning, execution, control, and monitoring of supply chain activities with the objective of creating net value, building a competitive infrastructure, leveraging worldwide logistics, synchronizing supply with demand and measuring performance globally.
Supply Chain Design (Collection) Warehouses are an integral link in the modern supply chain, ensuring that the correct product is delivered in the right quantity, in good condition, at the required time, and at minimal cost: in effect, the perfect order. The effective management of warehouses is vital in minimizing costs and ensuring the efficient operation of any supply chain. Warehouse Management is a complete guide to best practice in warehouse operations. Covering everything from the latest technological advances to current environmental issues, this book provides an indispensable companion to the modern warehouse. Supported by case studies, the text considers many aspects of warehouse management, including: cost reduction productivity people management warehouse operations With helpful tools, hints and up-to-date information, Warehouse Management provides an invaluable resource for anyone looking to reduce costs and boost productivity.

Applications of Contemporary Management Approaches in Supply Chains Management of supply chains has been evolving rapidly over the last few years due to the inception of Industry 4.0, where businesses adopt automation technologies and data exchanges leading to dynamic and interconnected supply chain systems. Emphasizing on analytical approaches such as predictive and prescriptive modeling, this book presents state-of-the-art original research work dealing with advanced analytical models for the design, planning, and operation of the supply chain to provide faster and smarter decisions in the era of digitization. In particular, the book integrates machine learning and operations research models for faster and smarter decisions, presents prescriptive analytics models for strategic, tactical, and operational decision making in the supply chain, and addresses recent challenges such as sustainability in the supply chain, supply chain visibility, and supply chain digitalization. Key concepts are illustrated using real-life case studies, making the book a valuable reference for researchers, technical professionals, and students.

Design and Analysis of Closed-Loop Supply Chain Networks Economic, marketing, and legislative considerations are increasingly leading companies to take back and recover their products after use. From a logistics perspective, these initiatives give rise to new goods flows from the user back to the producer. The management of these goods flows opposite to the traditional supply chain flows is addressed in the recently emerged field of Reverse Logistics. This monograph considers quantitative models that support decision making in Reverse Logistics. To this end, several recent case studies are reviewed. Moreover, first-hand insight from a study on used electronic equipment is reported on. On this basis, logistics issues arising in the management of "reverse" goods flows are identified. Moreover, differences between Reverse Logistics and more traditional logistics contexts are highlighted. Finally, attention is paid to capturing the characteristics of Reverse Logistics in appropriate quantitative models.

Supply Chain Network Design Our rapidly changing world has forced business practitioners, in corporation with academic researchers, to respond quickly and develop effective solution methodologies and techniques to handle new challenges in supply chain systems. Supply Chain Optimization, Management and Integration: Emerging Applications presents readers with a rich collection of ideas from researchers who are bridging the gap between the latest in information technology and supply chain management. This book includes theoretical, analytical, and empirical research, comprehensive reviews of relevant research, and case studies of effective applications in the field of SCM. The use of new technologies, methods, and techniques are emphasized by those who have worked with supply chain management across the world for those in the field of information systems.

Supply Chain Management In today’s developing world, international trade is a field that is rapidly growing. Within this economic market, traders need to implement new approaches in order to satisfy consumers’ rising demands. Due to the high level of competition, merchants have focused on developing new transportation and logistics strategies. In order to execute effective transportation tactics, decision makers need to know the fundamentals, current developments, and future trends of intercontinental transportation. The Handbook of Research on the Applications of International Transportation and Logistics for World Trade provides emerging research exploring the effective and productive solutions to global transportation and logistics by applying fundamental and in-depth knowledge together with current applications and future aspects. Featuring coverage on a broad range of topics such as international regulations, inventory management, and distribution networks, this book is ideally designed for logistics authorities, trading companies, logistics operators, transportation specialists, government officials, managers, policymakers, researchers, academicians, and students.
Fundamentals of Supply Chain Management This proceedings book presents selected peer-reviewed papers from the 9th International Workshop on ‘Service Oriented, Holonic and Multi-agent Manufacturing Systems for the Industry of the Future’ organized by Universitat Politècnica de València, Spain, and held on October 3–4, 2019. The SOHOMA 2019 Workshop aimed to foster innovation in the digital transformation of manufacturing and logistics by promoting new concepts and methods and solutions through service orientation in holonic and agent-based control with distributed intelligence. The book provides insights into the theme of the SOHOMA ’19 Workshop – ‘Smart anything everywhere – the vertical and horizontal manufacturing integration,’ addressing ‘Industry of the Future’ (IoF), a term used to describe the 4th industrial revolution initiated by a new generation of adaptive, fully connected, analytical and highly efficient robotized manufacturing systems. This global IoF model describes a new stage of manufacturing, that is fully automatized and uses advanced information, communication and control technologies such as industrial IoT, cyber-physical production systems, cloud manufacturing, resource virtualization, product intelligence, and digital twin, edge and fog computing. It presents the IoF interconnection of distributed manufacturing entities using a ‘system-of-systems’ approach, discussing new types of highly interconnected and self-organizing production resources in the entire value chain; and new types of intelligent decision-making support based on real-time production data collected from resources, products and machine learning processing. This book is intended for researchers and engineers working in the manufacturing value chain, and specialists developing computer-based control and robotics solutions for the ‘Industry of the Future’. It is also a valuable resource for master’s and Ph.D. students in engineering sciences programs.

Supply Chain Network Design Practitioners in process industry have to increasingly adapt their global production networks to changes in the competitive environment. A majority of the supply network design models proposed by academia do not sufficiently capture the questions that have to be resolved. This book provides the necessary operations research decision support tools. It builds on an example of the specialty chemicals industry.

Modeling of Responsive Supply Chain All too often, entrepreneurs start small businesses unaware of their need for a supply chain network. And, large companies are acquired and their product lines merged with little regard for supply chain network integration and rationalization. Written for practitioners by a practitioner with 40 years of experience, Supply Chain Construction: The Ba

Supply Chain Management This edited book describes new trends in supply chain design and management with an emphasis on technologies and methodologies. It contains guidelines detailing the real-world applications of these technologies and methodologies. This book is of interest to researchers and practitioners and can also be used as a reference handbook by lecturers and postgraduate students in this field.

Lean and Green Supply Chain Management This book is aimed at an important and under-served niche within the supply chain market: strategic supply chain design. Almost all supply chain professionals need to know about this discipline. No current book covers the theory and practice in a way that ensures readers will be successful with this discipline in the field. Strategic network design is about selecting the right number, location, and size of warehouses, plants, and production lines. It is about determining the territories of your facilities, what product should be made where, and how product should flow through the supply chain. It is about developing a good model of your supply chain so you can make good operational decisions. Network design is important because a good design helps a firm execute its strategy.
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It requires analytics and optimization. And, when firms do it right, they can reduce supply chain costs by 5-15% which can translate into tens of millions of dollars of savings for the firm. The book brings together our experience in completing 100s of these projects, our teaching of this material, and our understanding of the science that drives these studies. The book is ideal for supply chain managers, analysts, and consultants who must do these studies, for people who work for a company or organization with a supply chain and want to understand the design and strategy better, and for professors who want to bring a practical and intellectually interesting material to the classroom. Our goal is to help you deeply understand this topic. We covers the topics with realistic case studies, discussions of practical consideration, and a mix of the science. This helps you understand the topic, understand how it applies to you, and build your intuition. We hope you enjoy the book!