

[PDF] Designing And Managing The Supply Chain 3e With Student Cd

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Designing and Managing the Supply Chain-David Simchi-Levi 2008

Designing and Managing the Supply Chain 3e with Student CD-Philip Kaminsky 2007-07-23 Designing and Managing the Supply Chain, 3/e provides state-of-the-art models, concepts, and solution methods that are important for the design, control, operation, and management of supply chain systems. In particular, the authors attempt to convey the intuition behind many key supply chain concepts and to provide simple techniques that can be used to analyze various aspects of the supply chain. Topical coverage reflects the authors' desire to introduce students to those aspects of supply chain management that are critical to the success of a business. Although many essential supply chain management issues are interrelated, the authors strive to make each chapter as self-contained as possible, so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes numerous case studies and examples, and mathematical and technical sections can be skipped without loss of continuity. The 3rd edition represents a substantial revision. While the structure and philosophy were kept intact, the authors placed an increasing importance on finding or developing effective frameworks that illustrate many important supply chain issues. At the same time, motivated by new developments in industry, they added material on a variety of topics new to the book while increasing the coverage of others.

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Supply Chain Design and Management-Manish Govil 2002-02-01 Supply Chain Design and Management introduces the concept of a sharing mechanism that will ensure the sustainability of a supply chain by fair distribution of costs and benefits. This book provides a holistic view of the supply chain from product development, purchasing, manufacturing, distribution and storage, to retailing. The presentation of the enabling technologies in supply chain management will help companies better understand their options. § Provides a step-by-step framework for designing supply chains at the strategic level § Written for those who deal with the supply chains on a day-to-day basis as well as those new to the field § Provides a synthesis of best practices for managing supply chains at the tactical level § Provides a review of the state-of-the-art in enabling information technologies and business applications § Explains the concepts with examples from the industry and simple mathematical formulations § Is accessible to graduate students for an excellent understanding of how supply chains work and can join the industry armed with the knowledge of the workings of supply chains

Designing and Managing the Supply Chain-David Simchi-Levi 2003 Introduction to Supply Chain Management - Logistics Network Configuration - Inventory Management and Risk Pooling - The Value of Information - Supply chain integration - Strategic Alliances - Procurement and outsourcing strategies - International Issues in Supply Chain Management - Coordinated Product and Supply Chain Design - Customer Value and Supply Chain Management - Information technology for supply chain management - Decision-support systems for supply chain management.

Managing the Supply Chain-David Simchi-Levi 2003-11-22 In today's environment of tight budgets and even tighter turnarounds, effective supply-chain management has become a core business requirement. Managing the Supply Chain adapts the number one supply-chain book on the college market to examine how professionals can consistently turn supply-chain strategy into a competitive advantage. This results-based book examines the experiences of today's most accomplished companies to demonstrate supply-chain innovation at work in the marketplace.

Designing and Managing the Supply Chain-David Simchi-Levi 2002-11 Supply chain management, both in industry and in academia, has grown rapidly over the past several years mainly due to an increase in corporate goals of reducing manufacturing costs and the savings that come from planning and managing the supply chain effectively. Most textbooks do not include models and decision support systems robust enough for industry. Designing and Managing the Supply Chain: Concepts, Strategies, and Cases, 2/e by Simchi-Levy, Kaminsky and Simchi-Levi discusses the problems, models and concepts derived from issues related to effective supply chain management. This text is suitable for both academic study and practicing professionals. While many core supply chain management issues are interrelated, the authors have tried to make each chapter as self-contained as possible so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes case studies and numerous examples. Mathematical and technical sections can be skipped without loss of continuity.

The accompanying CD-ROM also provides two simulations, the Computerized Beer Game and the Risk Pool Game and a computerized tool, new to this edition, for developing and executing supply chain contracts. These packages help illustrate many of the concepts discussed.

Designing and Implementing Global Supply Chain Management-Joshi, Sudhanshu 2015-12-02 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.

Trends in Supply Chain Design and Management-Hosang Jung 2007-07-17 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.

Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods-Minis, Ioannis 2010-12-31 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 methods 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 Network Design-Michael Watson 2013 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.

Managing the Supply Chain-John Gattorna 1996-08-16

Product Design and the Supply Chain-Omera Khan 2018-12-03 Product design touches every aspect of modern life, determining the form and function of the products and technologies that we use every day. Product design is not just concerned with the appearance and functionality of products; it has an important role in determining the cost, pricing, risk and profitability profile of those products. Product Design and the Supply Chain shows how decisions taken at the design stage of a product's life cycle go on to affect that product's subsequent value to a company. Eighty percent of a product's eventual supply chain costs are already present at the early stages of product design and development. This book allows companies to make informed design decisions that have significant positive through-life implications for risk, complexity and responsiveness, thus allowing them to create a 'moat' that is difficult for competitors to sidestep or surmount. Product Design and the Supply Chain contains fascinating content applicable to industry. It is full of useful and insightful real-life cases and examples. This book sets out to show how design impacts: sales revenues, pricing, time to market, manufacturing and supply chain costs, supply chain risks, brand loyalty, and competitiveness.

Sustainability Delivered-Madeleine Pullman 2012-04-26 If you are a supply chain manager, an executive, an

entrepreneur, or a stakeholder in a sustainable business, this book will help you develop the awareness and skills needed to support sustainable supply chain management in your firm. The authors introduce the many ways that social and environmental responsibility can be integrated into supply chain management, from sustainable product and process design to programs and techniques that support product end-of-life management. The book begins with a discussion of sustainability and business strategy. It then explores product and process design, sustainable purchasing and logistics, and product end-of-life management topics. The authors include real-world examples and cases from some of the world's leading companies in sustainable supply chain management. The examples range from small local companies to large multinational players to give a broad range of ideas to the reader. With case examples, workshops, and step-by-step instructions on how to create a sustainable supply chain, Sustainability Delivered is the most practical and usable book on the market that will help you and other business leaders to authentically pursue and deliver on sustainability ideals

Supply Chain Management For Dummies-Daniel Stanton 2017-11-10 Everyone can impact the supply chain Supply Chain Management For Dummies helps you connect the dots between things like purchasing, logistics, and operations to see how the big picture is affected by seemingly isolated inefficiencies. Your business is a system, made of many moving parts that must synchronize to most efficiently meet the needs of your customers—and your shareholders. Interruptions in one area ripple throughout the entire operation, disrupting the careful coordination that makes businesses successful; that's where supply chain management (SCM) comes in. SCM means different things to different people, and many different models exist to meet the needs of different industries. This book focuses on the broadly-applicable Supply Chain Operations Reference (SCOR) Model: Plan, Source, Make, Deliver, Return, and Enable, to describe the basic techniques and key concepts that keep businesses running smoothly. Whether you're in sales, HR, or product development, the decisions you make every day can impact the supply chain. This book shows you how to factor broader impact into your decision making process based on your place in the system. Improve processes by determining your metrics Choose the right software and implement appropriate automation Evaluate and mitigate risks at all steps in the supply chain Help your business function as a system to more effectively meet customer needs We tend to think of the supply chain as suppliers, logistics, and warehousing—but it's so much more than that. Every single person in your organization, from the mailroom to the C-suite, can work to enhance or hinder the flow. Supply Chain Management For Dummies shows you what you need to know to make sure your impact leads to positive outcomes.

Fundamentals of Production Planning and Control-Chapman 2008

Dynamic Supply Chains-John Gattorna 2015-03-26 '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.

Design and Analysis of Closed-Loop Supply Chain Networks-Subramanian Pazhani 2021-04-30 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 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 and ideal for managers, practitioners, and researchers in the area of supply chain network design and optimization.

Surviving Supply Chain Integration-National Research Council 2000-03-23 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 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.

Practical E-Manufacturing and Supply Chain Management-Gerhard Greeff 2004-08-11 New technologies are revolutionising the way manufacturing and supply chain management are implemented. These changes are delivering manufacturing firms the competitive advantage of a highly flexible and responsive supply chain and manufacturing system to ensure that they meet the high expectations of their customers, who, in today's economy, demand absolutely the best service, price, delivery time and product quality. To make e-manufacturing and supply chain technologies effective, integration is needed between various, often disparate systems. To understand why this is such an issue, one needs to understand what the different systems or system components do, their objectives, their specific focus areas and how they interact with other systems. It is also required to understand how these systems evolved to their current state, as the concepts used during the early development of systems and technology tend to remain in place throughout the life-cycle of the systems/technology. This book explores various standards, concepts and techniques used over the years to model systems and hierarchies in order to understand where they fit into the organization and supply chain. It looks at the specific system components and the ways in which they can be designed and graphically depicted for easy understanding by both information technology (IT) and non-IT personnel. Without a good implementation philosophy, very few systems add any real benefit to an organization, and for this reason the ways in which systems are implemented and installation projects managed are also explored and recommendations are made as to possible methods that have proven successful in the past. The human factor and how that impacts on system success are also addressed, as is the motivation for system investment and subsequent benefit measurement processes. Finally, the vendor/user supply/demand within the e-manufacturing domain is explored and a method is put forward that enables the reduction of vendor bias during the vendor selection process. The objective of this book is to provide the reader with a good understanding regarding the four critical factors (business/physical processes, systems supporting the processes, company personnel and company/personal performance measures) that influence the success of any e-manufacturing implementation, and the synchronization required between these factors. · Discover how to implement the flexible and responsive supply chain and manufacturing execution systems required for competitive and customer-focused manufacturing · Build a working knowledge of the latest plant automation, manufacturing execution systems (MES) and supply chain management (SCM) design techniques · Gain a fuller understanding of the four critical factors (business and physical processes, systems supporting the processes, company personnel, performance measurement) that influence the success of any e-manufacturing implementation, and how to evaluate and optimize all four factors

Designing and Managing Programs-Peter M. Kettner 2015-12-29 The Fifth Edition of the classic Designing and

Managing Programs for human services helps readers grasp the meaning and significance of measuring performance and evaluating outcomes. The authors, all leaders in the field, incorporate the principles of effectiveness-based planning as they address the steps of designing, implementing, and evaluating a human services program at the local agency level. Meaningful examples at every stage of the process—from problem analysis and needs assessment to evaluating effectiveness and calculating costs—enhance reader understanding of how concepts are implemented in the real world.

Biomass to Biofuel Supply Chain Design and Planning under Uncertainty-Mir Saman Pishvae 2020-11-25 Biomass to Biofuel Supply Chain Design and Planning under Uncertainty: Concepts and Quantitative Methods explores the design and optimization of biomass-to-biofuel supply chains for commercial-scale implementation of biofuel projects by considering the problems and challenges encountered in real supply chains. By offering a fresh approach and discussing a wide range of quantitative methods, the book enables researchers and practitioners to develop hybrid methods that integrate the advantages and features of two or more methods in one decision-making framework for the efficient optimization of biofuel supply chains, especially for complex supply chain models. Combining supply chain management and modeling techniques in a single volume, the book is beneficial for graduate students who no longer need to consult subject-specific books alongside mathematical modeling textbooks. The book consists of two main parts. The first part describes the key components of biofuel supply chains, including biomass production, harvesting, collection, storage, preprocessing, conversion, transportation, and distribution. It also provides a comprehensive review of the concepts, problems, and opportunities associated with biofuel supply chains, such as types and properties of the feedstocks and fuel products, decision-making levels, sustainability concepts, uncertainty analysis and risk management, as well as integration of biomass supply chain with other supply chains. The second part focuses on modeling and optimization of biomass-to-biofuel supply chains under uncertainty, using different quantitative methods to determine optimal design. Proposes a general multi-level framework for the optimal design and operation of biomass-to-biofuel supply chains through quantitative analysis and modeling, including different biomass and waste biomass feedstock, production pathways, technology options, transportation modes, and final products Explores how modeling and optimization tools can be utilized to address sustainability issues in biofuel supply chains by simultaneously assessing and identifying sustainable solutions Presents several case studies with different regional constraints to evaluate the practical applicability of different optimization methods and compares their performance in real-world situations Includes General Algebraic Modeling System (GAMS) codes for solving biomass supply chain optimization problems discussed in different chapters

Operations Rules-David Simchi-Levi 2010-09-24 An expert offers a set of rules that will help managers achieve dramatic improvements in operations performance. In recent years, management gurus have urged businesses to adopt such strategies as just-in-time, lean manufacturing, offshoring, and frequent deliveries to retail outlets. But today, these much-touted strategies may be risky. Global financial turmoil, rising labor costs in developing countries, and huge volatility in the price of oil and other commodities can disrupt a company's entire supply chain and threaten its ability to compete. In Operations Rules, David Simchi-Levi identifies the crucial element in a company's success: the link between the value it provides its customers and its operations strategies. And he offers a set of scientifically and empirically based rules that management can follow to achieve a quantum leap in operations performance. Flexibility, says Simchi-Levi, is the single most important capability that allows firms to innovate in their operations and supply chain strategies. A small investment in flexibility can achieve almost all the benefits of full flexibility. And successful companies do not all pursue the same strategies. Amazon and Wal-Mart, for example, are direct competitors but each focuses on a different market channel and provides a unique customer value proposition—Amazon, large selection and reliable fulfillment; Wal-Mart, low prices—that directly aligns with its operations strategy. Simchi-Levi's rules—regarding such issues as channels, price, product characteristics, value-added service, procurement strategy, and information technology—transform operations and supply chain management from an undertaking based on gut feeling and anecdotes to a science.

Supply Chain Design and Management for Emerging Markets-Wojciech Piotrowicz 2015-04-16 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 and focuses on the challenges faced when the supply chain is designed and

maintained. Such challenges derive from issues to do with risk, security, quality management and infrastructure 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.

Designing and Managing the Supply Chain-David Simchi-Levi 2007-11 As the most up-to-date, cutting-edge supply chain management book on the market, the Third Edition of Designing and Managing the Supply Chain discusses the problems, models and concepts derived from issues related to effective supply chain management. While many core supply chain management issues are interrelated, the authors have tried to make each chapter as self-contained as possible so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes case studies and numerous examples. Mathematical and technical sections can be skipped without loss of continuity. Most textbooks do not include models and decision support systems robust enough for industry, but that is not true of this new edition. The accompanying CD-ROM also features the return of two simulations, the Computerized Beer Game and the Risk Pool Game and a computerized tool. These simulations help users develop and execute supply chain contracts while also illustrating many of the concepts discussed in the text.

Designing and Managing Industrial Product-Service Systems-Petri Helo 2016-08-27 This book is dedicated to the issues and complexities of industrial services supply chain management. It analyzes how the transition from products to services can be managed, and how supply chains can be adjusted to reflect this new status quo. The book begins with chapters examining product-service systems structures and servitization - the services infusion process. Next, it presents industrial services as marketing and operations strategy. The focus shifts to service delivery, and this chapter discusses how the actual operations take place. This is followed by an examination of the role of technology and how connected assets are utilized by product vendors in value-creation. The book analyzes the transition from ownership to subscriptions in the pricing decisions chapter. Then the value chain effects chapter offers an overview of the mechanisms through which industrial companies are shortening the distance to end-users and aim for a better position in the value chain. Finally the conclusion addresses theoretical and empirical implications in the industrial services supply chain management.

Fundamentals of Supply Chain Management-

Applications of Contemporary Management Approaches in Supply Chains-Hakan Tozan 2015-04-15 In today's rapidly changing business environment, strong influence of globalization and information technologies drives practitioners and researchers of modern supply chain management, who are interested in applying different contemporary management paradigms and approaches, to supply chain process. This book intends to provide a guide to researchers, graduate students and practitioners by incorporating every aspect of management paradigms into overall supply chain functions such as procurement, warehousing, manufacturing, transportation and disposal. More specifically, this book aims to present recent approaches and ideas including experiences and applications in the field of supply chains, which may give a reference point and useful information for new research and to those allied, affiliated with and peripheral to the field of supply chains and its management.

Excellence in Supply Chain Management-Balam Avittathur 2020-05-12 Recent decades have witnessed an explosion in supply chain complexity. Very few firms have succeeded in building excellent supply chains and employing supply chain management (SCM) as a competitive advantage. For the ones which have developed enhanced supply chain design and process capabilities, their performance has far exceeded their competitors'. While for the vast majority of firms, SCM still remains a means of reducing costs and improving efficiency, for the excellent ones, SCM has turned into a source for value creation. What factors drive firms towards supply chain excellence? How can real differentiation be created through supply chains? Excellence in Supply Chain Management examines the characteristics and features of firms that excel in SCM.

Supply Chain Management-Dekok 2003-12-19 This handbook contains chapters covering a broad range of supply chain management issues written by leading experts in the field. It is aimed at researchers, students, engineers, economists and managers involved in supply chain management.

Designing Value-Creating Supply Chain Networks-Alain Martel 2016-03-30 Winner of the 2016 Coup de Coeur prize at the Plumes des Achats & Supply Chain, Paris. Focusing on the design of robust value-creating supply chain networks (SCN) and key strategic issues related to the number; location, capacity and mission of supply chain facilities (plants, distribution centers) - as well as the network structure required to provide flexibility and resilience in an uncertain world - this book presents an innovative methodology for SCN reengineering that can be used to significantly improve the bottom line of supply chain dependent businesses. Providing readers with the tools needed to analyze and model value creation activities, Designing Value-Creating Supply Chain Networks examines the risks faced by modern supply chains, and shows how to develop plausible future scenarios to evaluate potential SCN designs. The design methods proposed are based on a visual representation formalism that facilitates the analysis and modeling of SCN design problems, book chapters incorporate several example problems and exercises which can be solved with Excel tools (Analysis tools and Solver) or with commercial statistical and optimization software.

Supply Chain Management-Nada R. Sanders 2017-10-19 Supply chain management, rapidly-advancing and growing ever more important in the global business climate, requires an intense understanding of both underlying principles and practical techniques. Including both a broad overview of supply chain management and real-world examples of SCM in companies ranging from small to large, this book provides students with both the foundational material required to understand the subject matter and practical tips that demonstrate how the latest techniques are being applied. Spanning functional boundaries, this well-regarded book is now in its second edition and has quickly become a standard course text at many universities. This newest edition continues to provide a balanced, integrative, and business-oriented viewpoint of the material, and deeply explores how SCM is intertwined with other organizational functions. New material has been added to address the importance of big data analytics in SCM, as well as other technological advances such as 3-D printing, cloud computing, machine learning, driverless vehicles, the Internet of Things, RFID, and others.

Basics of Supply Chain Management-Jayanta Kumar Bandyopadhyay 2015-10-16 The practice of supply chain management has become widespread in most industries. It is now included in the curriculum of many business schools in the United States and in many countries around the world. A number of professional associations, such as the American Production and Inventory Control Society and the Supply Chain Management Society, off

Perspectives in Operations Management-Rakesh K. Sarin 2012-12-06 In the fall of 1992 a conference honoring Elwood S. Buffa was held at the Anderson Graduate School of Management of the University of California, Los Angeles. This book is a collection of the work presented at that conference. The scholars who gathered to honor El are the prominent researchers in the field of Operations Management. Their collective work published in this book represents the richness of the field and provides the reader with valuable insights into its important issues and problems. While any grouping of the articles by these distinguished scholars will be arbitrary, I have organized the book in four sections. In the first section the articles dealing with the strategic issues in Operations Management are compiled. The articles deal with continuous improvement, quality, services, supply chain management, and creating value through operations. The articles that explore the interface of Operations Management with other functional areas, e.g. engineering and marketing, are grouped in the second section. The third section of the book contains articles that attempt to model some important planning problems that arise in the management of production and operations. Some of the papers in this section provide state of the art reviews of selected topic areas. Finally, the fourth section contains articles that deal with future directions for Operations Management. The authors offer several insights into the future evolution of the field. The book begins with the keynote address given by El Buffa at the start of the conference on November 2, 1991.

Sustainable Food Supply Chains-Riccardo Accorsi 2019-06-12 Sustainable Food Supply Chains: Planning, Design, and Control through Interdisciplinary Methodologies provides integrated and practicable solutions that aid planners and entrepreneurs in the design and optimization of food production-distribution systems and operations and drives change toward sustainable food ecosystems. With synthesized coverage of the academic literature, this book integrates the quantitative models and tools that address each step of food supply chain operations to provide readers with easy access to support-decision quantitative and practicable methods. Broken into three parts, the book begins with an introduction and problem statement. The second part presents quantitative models and tools as an integrated framework for the food supply chain system and operations design. The book concludes with the presentation of case studies and applications focused on specific food chains. Sustainable Food Supply Chains: Planning, Design, and Control through Interdisciplinary Methodologies will be an indispensable resource for food scientists, practitioners and graduate students studying food systems and other related disciplines. Contains quantitative models and tools that address the interconnected areas of the food supply chain Synthesizes academic literature related to sustainable food supply chains Deals with interdisciplinary fields of research (Industrial Systems Engineering, Food Science, Packaging Science, Decision Science, Logistics and Facility Management, Supply Chain Management, Agriculture and Land-use Planning) that dominate food supply chain systems and operations Includes case studies and applications

The Logic of Logistics-David Simchi-Levi 2007-07-03 Fierce competition in today's global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a survey of the modern theory and application of logistics. The goal of the book is to present the state-of-the-art in the science of logistics management. As a result, the authors have written a timely and authoritative survey of this field that many practitioners and researchers will find makes an invaluable companion to their work.

ISE Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies-Philip Kaminsky 2021-02-23

Managing Project Supply Chains-Ron Basu 2017-03-02 The success of any project relies on the punctual, accurate and cost-effective delivery of materials, systems and facilities. Typically, a major project involves several stakeholders working together with controlled resources to deliver a completed project. It has many suppliers, contractors and customers; it has procurement and supply, demand planning and scheduling; it often lasts several years and has long lead times. Managing Project Supply Chains demonstrates how customised supply chain management can be applied to project management, ensuring project resources are delivered as required, reducing delays and costs and promoting a successful outcome.

Advances in Production Management Systems: Innovative Production Management Towards Sustainable Growth-Shigeki Umeda 2015-08-17 The two volumes IFIP AICT 459 and 460 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2015, held in Tokyo, Japan, in September 2015. The 163 revised full papers were carefully reviewed and selected from 185 submissions. They are organized in the following topical sections: collaborative networks; globalization and production management; knowledge based production management; project management, engineering management, and quality management; sustainability and production management; co-creating sustainable business processes and ecosystems; open cloud computing architecture for smart manufacturing and cyber physical production systems; the practitioner's view on "innovative production management towards sustainable growth"; the role of additive manufacturing in value chain reconfiguration and sustainability; operations management in engineer-to-order manufacturing; lean production; sustainable system design for green products; cloud-based manufacturing; ontology-aided production - towards open and knowledge-driven planning and control; product-service lifecycle management: knowledge-driven innovation and social implications; and service engineering.