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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,

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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

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world - this book presents  
an innovative methodology  
for SCN reengineering that  
can be used to  
significantly improve the  
bottom line of supply  
chain dependent

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businesses. Providing readers with the tools needed to analyze and model value creation activities, Designing Value-Creating Supply Chain Networks examines

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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

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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

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solved with Excel tools  
(Analysis tools and  
Solver) or with commercial  
statistical and  
optimization software.  
Russell and Taylor's  
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manager, an executive, an  
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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

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many ways that social and environmental responsibility can be integrated into supply chain management, from sustainable product and process design to programs

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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



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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

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leading companies in sustainable supply chain management. The examples range from small local companies to large multinational players to give a broad range of

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ideas to the reader. With  
case examples, workshops,  
and step-by-step  
instructions on how to  
create a sustainable  
supply chain,  
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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



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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

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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

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researchers in the area of supply chain network design and optimization.

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

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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

This text takes an updated view of the issues involved in supply chain

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management in today's business environment. In the 1990s, many businesses have gone through a number of changes, in particular through focusing on core activities and divesting themselves of many of the support functions traditionally carried out 'in house'. This

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development has led to the necessity for a broader concept of logistics that embraces the functions of both suppliers and customers into an integrated supply chain. The consequence of this is that the fundamental disciplines of logistics management must be reviewed and

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modified. Within this framework, the text addresses topics such as: - Value chain analysis - Activity based costing - Strategic partnerships and alliances - International operations - Optimisation - Best practice and benchmarking The book is ideal for students and practitioners in the

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field of logistics and supply chain management.

The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg,



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Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart

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factories of industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator

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4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing;

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gamification of complex systems  
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Supply Chains

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Increase your knowledge of supply  
chain management and leverage it

properly for your business If you own

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or make decisions for a business, you need to master the critical concept of supply chain management. 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

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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

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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



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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

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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

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Management For Dummies helps you grasp the connections between business lines for wiser decision making and planning.

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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

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most accomplished companies to demonstrate supply-chain innovation at work in the marketplace.

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

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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

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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

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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



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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

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concepts discussed.

Heavy industrialization in the past few decades has caused several global environmental issues including poor air quality, climate change, and outdoor air pollution-related diseases. As such, consumer pressure coupled with strict governmental

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policies have influenced firms to adopt and implement green practices in their supply chain and business operations in order to improve socio-environmental sustainability. Global Perspectives on Green Business Administration and Sustainable Supply Chain Management is an

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essential reference book that discusses innovative green practices including recycling, remanufacturing, reduction in waste and adoption of renewable energy in manufacturing. It also examines environmentally friendly policies that have been adopted by many European and

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Western countries. Featuring coverage on a broad range of topics such as energy analysis, environmental protections, and logistics development, this book is ideally designed for managers, operations managers, executives, manufacturers, environmentalists,

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researchers, industry practitioners,  
academicians, and students.

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Manufacturing

Managing Supply Chain Operations

Designing and Implementing Global

Supply Chain Management

Complex Systems Concurrent

Engineering

Intended for an audience of graduate  
students, executive MBA students,

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and mid-to upper level government and corporate managers, Design, Analysis and Optimization of Supply Chains: A System Dynamic Approach examines the complexity of the types of organizations that comprise a modern supply chain, the problems that arise as a result of this complexity,



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and the solutions and analytical approaches available to managers that can help resolve these real world problems and dilemmas. The modern enterprise, be it a large corporation or a government agency, has two key dimensions of complexity: static and dynamic. The static complexity refers

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to the remarkable number of companies and agencies that enable delivery of the product or service. A static "snapshot" of this end-to-end enterprise would reveal hundreds if not thousands of companies involved in the supply network and many additional firms involved in the

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distribution and delivery to customers. Planning, communication, coordination and execution of this large system network is fundamentally challenging just because of the sheer size. This large, extended network represents the static complexity. The dynamic complexity arises from the difficulty of

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managing the performance of this extended enterprise over time. This requires having the appropriate metrics to track performance over time, the management skills to develop strategies, the ability to collect and monitor the correct data for true visibility, and the recognition and

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understanding of the long lags between actions and results. Design, Analysis and Optimization of Supply Chains: A System Dynamic Approach incorporates real-world examples and cases, representing actual complex enterprise systems including firms involved and with long lead times, to

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illustrate the multi-faceted activities occurring within a modern supply chain and the challenges they pose to managers. Simulation and optimization techniques are introduced and used to develop strategies for improved performance.

An expert offers a set of rules that will

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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-

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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



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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,

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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

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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

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rules—regarding such issues as channels, price, product characteristics, value-added service, procurement strategy, and information technolog—transform operations and supply chain management from an undertaking based on gut feeling and anecdotes to a science.

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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

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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,

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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.

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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



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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

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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.

This book summarizes the effect of COVID-19 on the global supply chain. Eminent researchers, practitioners, and professors discuss the challenges

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faced by supply chain providers and supply chain strategies related to various global, retail, fast moving consumer goods, humanitarian, pharmaceutical, and agricultural supply chains. This book also suggests the resilient approach adopted by supply chain organizations

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for quick recovery and re-establishing their networks. This book helps the readers explore the pandemic's impact on the supply chain and rebuilding the same using suitable approaches.

Fundamentals of Supply Chain  
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Basics of Supply Chain Management

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Sustainable Supply Chain  
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Environmentally Responsible Supply  
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Managing Supply Chains on the Silk Road: Strategy, Performance, and Risk present emerging supply chain practices from the Silk Road regions that include China, Hong Kong, India, Pakistan, Iran, Central Asia, Lebanon,



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This book, developed in collaboration with the Rutgers Center for Supply Chain Management and based upon research projects conducted with over 100 participating corporations, combines theory and

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practice in presenting the concepts necessary for strategic implementation of supply chain management techniques in a global environment. Coauthored by top teaching and research faculty and a senior industry

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executive, this academic/industry partnership ensures the relevance of the text in terms of both practical application and academic rigor. This book introduces students to the key drivers of supply chain performance,

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including demand forecasting, sales and operations planning, inventory control, capacity analysis, transportation models, supply chain integration, and project management and risk analysis. It is enhanced by real-life

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examples and case studies as well as strategies from best practices and a focus on social and economic impact. The content reaches beyond a traditional operations management text and draws on the extensive experience

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of the authors conducting industry projects through the Rutgers Center for Supply Chain Management. The input of senior business executives has been an invaluable asset in presenting a balanced knowledge of both

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quantitative models and qualitative insights. This book is suitable for courses at the MBA core level, MS in supply chain management level, upper undergraduate level, and also suitable for executive education.

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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

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of business practice. The Practice of Supply Chain Management: Where Theory and 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

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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

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research and practice that continues to simulate new directions for research.

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.



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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.

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,

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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

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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

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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

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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 Risk Management

**Computational  
Intelligence (CI) is a term  
corresponding to a new  
generation of algorithmic  
methodologies in  
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**which combines elements  
of learning, adaptation,  
evolution and  
approximate (fuzzy)  
reasoning to create  
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solutions to complex  
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both underlying  
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and has quickly become a  
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**oriented viewpoint of the material, and deeply explores how SCM is intertwined with other organizational functions. New material has been added to address the**

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**importance of big data  
analytics in SCM, as well  
as other technological  
advances such as 3-D  
printing, cloud  
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**vehicles, the Internet of Things, RFID, and others. This book is devoted to analysis and design of supply chain contracts with stochastic demand. Given the extensive**

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**utilization of contracts in  
supply chains, the issues  
concerning contract  
analysis and design are  
extremely important for  
supply chain  
management (SCM), and**

**substantial research has  
been developed to  
address those issues over  
the past years. Despite  
the abundance of  
classical research, new  
research needs to be**

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**conducted in response to  
new issues emerging with  
the recent changing  
business environments,  
such as the fast-  
shortening life cycle of  
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of supply chains. This  
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**Chapter 5 develops a bidirectional option contract model and explores the optimal contracting decisions and supply chain coordination issue with the**

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**bidirectional option.  
Chapter 6 addresses  
supply chain options  
pricing issue and a value-  
based pricing scheme is  
developed for the supply  
chain options. With a**

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**cooperative game theory  
approach, Chapter 7  
explores the issues  
concerning supply chain  
contract  
selection/implementation  
with the option contract**

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**under consideration.  
Chapter 8 concludes the  
book and suggests  
worthy directions for  
future research.  
Any supply chain  
improvement project,**

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**even if well conceived,  
has a good chance of  
failing, unless the  
accompanying  
information technology  
enables the design. Being  
prepared, understanding**



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**the risks and how to  
reduce them, will give  
you the edge you need.  
Combining a technology  
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time, and the reverse problem (2) the risk that demand is over estimated and excessive inventory costs are incurred. There are other risks in unreliable vendors, delayed shipments, natural disasters, etc. In short, there are a host of strategic, tactical and operational

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capabilities that small and medium-sized manufacturers must have to be viable participants in this system.

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*feedstocks and fuel products,  
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