

Dynamic Supply Chains How To Design Build And Manage People Centric Value Networks

"This book investigates the role of innovation in the management of supply chains of today, focusing on supply chain integration from both strategic and operational perspectives and the impact of information technology-related innovation in supply chain and logistics service industries"--Provided by publisher.

This book offers an introduction to structural dynamics, ripple effect and resilience in supply chain disruption risk management for larger audiences. In the management section, without relying heavily on mathematical derivations, the book offers state-of-the-art concepts and methods to tackle supply chain disruption risks and designing resilient supply chains in a simple, predictable format to make it easy to understand for students and professionals with both management and engineering background. In the technical section, the book constitutes structural dynamics control methods for supply chain management. Real-life problems are modelled and solved with the help of mathematical programming, discrete-event simulation, optimal control theory, and fuzzy logic. The book derives practical recommendations for management decision-making with disruption risk in the following areas: How to estimate the impact of possible disruptions on performance in the pro-active stage? How to generate efficient and effective stabilization and recovery policies? When does one failure trigger an adjacent set of failures? Which supply chain structures are particular sensitive to ripple effect? How to measure the disruption risks in the supply chain?

This book discusses supply chain management, focusing on developments within modelling the dynamic behaviour of the supply chain. Aimed at postgraduate students, researchers and practitioners, this book provides an in-depth knowledge of the dynamics of supply chains. Business trends such as the globalisation process and the increase of competition across many industrial sectors have forced companies to concentrate on their core competences and to outsource those activities in which they do not excel. As a consequence, companies no longer produce and distribute their goods in isolation, but being part of a supply chain or

supply network, i.e. a set of interrelated companies who ultimately deliver the goods and services to the final customer. Despite the prevalence of supply chains as the primary form of production and distribution, their performance can be seriously hampered by the complex dynamics resulting from the collaboration and coordination (or lack thereof) among their members. This book provides the reader with modelling tools to understand, analyse and improve the dynamic behaviour of supply chains. It assembles seminal works on supply chain models and recent developments on the topic in order to provide a comprehensive, unified vision of the field for researchers and practitioners who wish to grasp the challenges of supply chain management. Aside presenting the main elements, equations and performance indicators governing the dynamics of a supply chain, and the book addresses issues such as the effect of timely and accurately sharing the information across members, the influence of restrictions on the productive capacities of their members, or the impact of the variability of the lead times, among others. Furthermore, more complex supply chain structures such as non-serial supply networks or closed-loop supply chains are modelled and discussed. Relevant managerial insights regarding the causes of supply chain underperformance, as well as avenues to improve their efficiency can be extracted from the resulting models.

Dealing with Front-end, Back-end and Integration Issues

Supply Chain Engineering

Principles for Radical Re-design in the Age of Information (new Version)

Best Practice in Supply Chain Management

Fundamentals of Supply Chain Management

Dynamic Supply Chains

"This book presents cutting-edge knowledge on scientific approaches to the management of supply networks in a highly informed global environment with abundant dynamic and uncertain challenges"--Provided by publisher.

This book deals with stochastic combinatorial optimization problems in supply chain disruption management, with a particular focus on management of disrupted flows in customer-driven supply chains. The problems are modeled using a scenario based stochastic mixed integer programming to address riskneutral, risk-averse and mean-risk decision-making in the presence of supply chain disruption risks. The book focuses on integrated disruption mitigation and recovery decision-making and innovative, computationally efficient multi-portfolio approach to supply chain disruption management, e.g., selection of primary and recovery supply portfolios, demand portfolios, capacity portfolios, etc.

Numerous computational examples throughout the book, modeled in part on realworld supply chain disruption management problems, illustrate the material presented and provide managerial insights. Many propositions formulated in the book lead to a deep understanding of the properties of developed stochastic mixed integer programs and optimal solutions. In the computational examples, the proposed mathematical programming models are solved using an advanced algebraic modeling language such as AMPL and CPLEX, GUROBI and XPRESS solvers. The knowledge and tools provided in the book allow the reader to model and solve supply chain disruption management problems using commercially available software for mixed integer programming. Using the end-of chapter problems and exercises, the monograph can also be used as a textbook for an advanced course in supply chain risk management. After an introductory chapter, the book is then divided into six main parts. Part I addresses selection of a supply portfolio; Part II considers integrated selection of supply portfolio and scheduling; Part III looks at integrated, equitably efficient selection of supply portfolio and scheduling; Part IV examines integrated selection of primary and recovery supply and demand portfolios and production and inventory scheduling, Part V deals with selection of resilient supply portfolio in multitier supply chain networks; and Part VI addresses selection of cybersecurity safeguards portfolio for disruption management of information flows in supply chains.

This book explains supply chain management (SCM) using the strategy–structure–process–performance (SSPP) framework. Utilizing this well-known framework of contingency theory in the areas of strategic management and organizational design, SCM is firmly positioned among management theories. The author specifically proposes a theoretical foundation of SCM that will be relevant to such areas as operations management, logistics management, purchasing management, and marketing. Both the static and dynamic sides of SCM are reported. On the static side, supply chain strategies are divided into three patterns: efficiency-oriented, responsiveness-oriented, and the hybrid efficiency- and responsiveness-oriented pattern. For each strategy, suitable internal and external supply chain structures and processes are proposed. On the dynamic side, the big issue is to overcome performance trade-offs. Based on theories of organizational change, process change, and dynamic capabilities, the book presents a model of supply chain process change. On structure, the focus is on the role of an SCM steering department. Illustrative cases are included from such diverse industries as automobiles (Toyota and Nissan), personal computers (Fujitsu), office equipment (Ricoh), air-conditioning (Daikin), tobacco (Japan Tobacco), chemicals and cosmetics (Kao), and casual fashion (Fast Retailing and Inditex). The strategy and organization of SCM is systematically presented on the basis of the SSPP framework. In particular, the relationships among three management elements—strategy, structure, and process—can be identified in an SCM context. From many of the cases contained in this volume, there emerges an understanding of how to analyze the success and failure factors of SCM using the SSPP framework. In addition, the reader sees not only the static side SCM such as process operation but also its dynamic side such as process innovation and process improvement.

Strategic Supply Chain Alignment

Dynamic Supply Chains ePub

Transformational Performance Improvement

Supply Chain Management

The Dynamic Partnership of Air Freight and Supply Chain

Dynamic Fleet Management

Supply Chain Engineering considers how modern production and operations management techniques can respond to the pressures of the competitive global marketplace. It presents a comprehensive analysis of concepts and models related to outsourcing, dynamic pricing, inventory management, RFID, and flexible and re-configurable manufacturing systems, as well as real-time assignment and scheduling processes. A significant part is also devoted to lean manufacturing, line balancing, facility layout and warehousing techniques. Explanations are based on examples and detailed algorithms while discarding complex and unnecessary theoretical minutiae. All examples have been carefully selected from an industrial application angle. This book is written for students and professors in industrial and systems engineering, management science, operations management and business. It is also an informative reference for managers looking to improve the efficiency and effectiveness of their production systems.

"Dynamic Modelling for Supply Chain Management" discusses how to streamline complex supply chain management by making the most of the growing number of tools available. The reader is introduced to the basic foundations from which to develop intelligent management strategies, as the book characterises the process and framework of modern supply chain management. The author reviews supply chain management concepts and singles out important factors in the management of modern complex production systems. Particular attention is paid to modern simulation modelling tools that can be used to support supply chain planning and control. The book explores the operational and financial impacts of various potential problems, offering a compilation of practical models to help identify solutions. A useful reference on supply chain management, "Dynamic Modelling for Supply Chain Management" will benefit engineers and professionals working in a variety of areas, from supply chain management to product engineering.

Fascinating insights into the changing supply chain industry in China, from leading international experts A fascinating look at the enormous changes taking place in China today as it evolves from global manufacturer to global consumer marketplace, *The Shipping Point: The Rise of China and the Future of Retail Supply Chain Management* explores how China's ascension will have a profound impact on the future of retail supply chain management. Bringing together the knowledge and expertise of leading supply chain and retail professionals from around the world to illuminate opportunities that are likely to develop over the next decade in China, the book is essential reading for anyone working with or looking to better understand how supply chains work.

Focusing on cutting edge logistics programs, processes, and technologies that will drive supply chain innovation in the twenty-first century, the book highlights innovative logistics programs that link the Asia Pacific manufacturing base, with international retailers and end consumers. Providing real examples of supply chain innovation in the marketplace to clearly illustrate the ideas in action, the book explores multi-country consolidation in China, strategies for greening the supply chain, supply chain & logistics IT systems, contingency planning strategy, and much more. Explores the programs, processes, and technologies that will drive supply chain innovation in the years ahead, with a particular focus on China Incorporates case studies contributed by retail executives and logistics industry professionals from around the world Highlights innovative logistics programs that link the Asia Pacific manufacturing base with international retailers and end consumers In The Shipping Point, international transportation and logistics expert Peter Levesque and a team of contributing authors provide practical expertise and insights into present and future opportunities for consumer retail and supply chain management—and what it will take to turn those opportunities into reality.

Demand-Driven Supply Chain Management

Preparing for Uncertainty Using Scenarios

Support for Dynamic Supply Chain Modelling

Theory and Applications

Supply Chain Disruption Management

Electronic Supply Network Coordination in Intelligent and Dynamic Environments: Modeling and Implementation

Living supply chains are at the heart of your business. You need to get them right and this book shows you how. Lots of textbooks on this topic, but few professional books. This is THE professional book in the space. Covers: * *Supply chains *Supply and demand *Fulfillment *Logistics *Operations *Dynamic alignment model *Customer service *People management *Engagement *Leadership Supply chains are at the heart of competitive advantage in business today. If you manage your supply chains successfully, you will be able to deliver your products and services to your customers in a smart, cost-effective way. And the key to successful supply chain management is recognizing that supply chains are so much more than warehouses, transport, and technology. In fact it's people who really drive the living supply chains that are at the heart of your business. Supply chains are powered by the energy and expertise of your employees and suppliers and by the changing wants and needs of your customers. John Gattorna calls this principle of matching changing customer needs and desires with different supply chain strategies dynamic alignment. To secure your space in a new market, you have to get your products out there faster. The same applies to growing or just keeping existing markets - you need to be the first with new products and services and the first to match them with particular customer groups. The dynamic alignment model gives you a structured way of linking customer expectations to the operational side of your business and of maintaining the flexibility to systematically modify your

fulfillment processes as your customers, inevitably, change their buying preferences. John Gattorna is a leading international expert on supply chain management. John is Professorial Fellow in Supply Chain Management and Co-Director, Centre for Supply Chain Research, University of Wollongong. He is also a visiting professor at the Cranfield School of Management. Gattorna is one of the few people who have been continuously engaged in the evolution of supply chain management. He is generally regarded as one of the world's thought leaders in the supply chain management field, and continues to be much sought after as a keynote speaker. Today he continues his work unraveling the complexities inherent in design and operation of enterprise supply chains.

‘ 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.

This book focuses on real time management of distribution systems, integrating the latest results in system design, algorithm development and system implementation to capture the state-of-the art research and application trends. The book important topics such as goods dispatching, couriers, rescue and repair services, taxi cab services, and more. The book includes real-life case studies that describe the solution to actual distribution problems by combining systemic and algorithmic approaches.

Challenges and Solutions

Dynamic Supply Chains, 2nd Edition

Concepts, Systems, Algorithms & Case Studies

Delivering Value Through People

Industries, Strategies, and Logistics Structures

Blockchain and Supply Chain Management

Many manufacturing and distribution companies are moving from the traditional 'forecast push MRP' to demand-driven supply chain management (SCM). Demand-driven SCM is an 'end-to-end' supply chain planning and replenishment process that enables companies to achieve their planned service levels from up to half the average level of inventory and requiring significantly less throughput capacity - irrespective of the level of demand volatility or lead-time length. Demand-Driven Supply Chain Management is the go-to source for industry supply chain/operations executives and students. It describes the 'what, how and why' of the demand-driven SCM process. The key themes in the book are: what is demand-driven? why is demand-driven so effective? how to operate a demand-driven supply chain? and how to adopt the demand-driven process in your company? Readers can quickly grasp the essential concepts from one of numerous self-contained sections that present the book's key concepts from different perspectives. Online resources available include full-colour figures.

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

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 chains with a constructive level of 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 supply chain adaptability, stability, and crisis-resistance. 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.

Transforming Supply Chains

Coordinating Demand Fulfillment with Supply Across a Dynamic Supply Chain

Transfer and Integration of Human Resources Management Knowledge Within Dynamic Supply Chains

Using Stochastic Mixed Integer Programming

Dynamic Supply Chain Design with Inventory

Hybrid Models for Dynamic Supply Chain Management

Due to highly complex nature of a dynamic supply chain, modeling, analyzing, optimizing & redesigning of supply chain processes using formal and quantitative approaches is a challenging task. Many of the past studies neglected significant impacts of such integration issues and models from past studies were confined in their capability and applicability to analyze dynamic supply chain. The objective of this book is to develop viable modeling methodologies and analyzing algorithms for a dynamic supply chain so that the logic properties of supply chain process models can be analyzed and verified. This problem requires more attention it deserves in integrated supply chain literature till date. This book identifies key research gaps which are crucial in providing an insight that there is a significant

opportunity to develop hybrid modeling approaches for supplier related issues. These hybrid approaches enhance the connection of the major building blocks in the supply chain and considering the dynamic nature of supply chain, the proposed hybrid approaches are utilized to study the impact of different supply chain strategies and policies.

Design of Demand Forecasting Expert System for Dynamic Supply Chains.

Just like the world financial system, but for different reasons, 21st-century corporations need a new business model for their enterprise supply chains. The old conventions no longer work in this new world of volatile and increasingly unpredictable demand and supply. The enterprise needs to become more 'connected' to its own parts, as well as its partners up and down the chains it participates in. So too, we need to embrace new ways of looking at customers to gain deeper, more insightful impressions of what they are telling us about the way they want to buy our products and services. Finally, these signals need converting into corresponding action, driven by the people in the business, leaders and staff alike, who are aligned to their customers' wishes. This is the world of dynamic supply chain alignment where, increasingly, supply chains are the business. In the follow-up to his hugely successful Strategic Supply Chain Alignment, John Gattorna's Dynamic Supply Chain Alignment, explores how to create and sustain multiple supply chains with a level of flexibility and responsiveness that allow you to respond to opportunities and threats; at the same time aligning with your suppliers, your partners and your customers. When more executives get to this stage of development the profits will flow more readily, and sustainability of performance will not be the same issue it is today. The way forward is right there in front of us; but, says John Gattorna, we must throw off old ways and embrace the new.

Dynamic Supply Chains in Russia

Design, Analysis and Optimization of Supply Chains

Structural Dynamics and Resilience in Supply Chain Risk Management

Comparative Study of Dynamic Supply Chains

Design of Demand Forecasting Expert System for Dynamic Supply Chains

Sustainability of Products, Processes and Supply Chains

Blockchain and Supply Chain Management combines discussions of blockchain and supply chains, linking technologies such as artificial intelligence, Internet of Things, satellite imagery, and machine vision. The book examines blockchain's basic concepts, relevant theories, and its roles in meeting key supply chain objectives. The book addresses problems related to inefficiency, opacity, and fraud, helping the digitization process, simplifying the value creation process, and facilitating collaboration. The book is balanced between blockchain and supply chain application and theory, covering the latest technological, organizational and regulatory developments in blockchain from a supply chain perspective. The book discusses the opportunities, barriers, and enablers of blockchain in supply chain policy, along with legal and ethical implications. Supply chain management faces massive disruption with the dynamic changes in global trade, the impact of Covid-19, and technological innovation. Entire industries are

also being transformed by blockchain, with some of the most promising applications in supply chain management. Provides theoretical and practical insights into both blockchain and supply chains Features numerous illustrative case studies, boxes, tables, and figures Examines blockchain's impacts on supply chains in four key industries: Food and beverage, healthcare, pharmaceuticals, and finance

"This book disseminates supply chain management and applied logistic theories, technology development, innovation, and transformation in various economy sectors upon current, advancing technological opportunities and market imperatives"--Provided by publisher.

Supply chain performance will be a key indicator of overall corporate success into the next century. This book, edited by logistics and supply chain expert John Gattorna, and with international contributions, presents unpublished material on next generation thinking about the management of the supply chain. Based on the recently developed strategic alignment model it shows how external market dynamics, the company's strategic response, and internal capability must be aligned if competitive advantage is to be achieved. Supply chain management is a strategic challenge demanding top level management attention. This book tackles the subject at that strategic level to help companies reposition their supply chains successfully. The book then offers the vital link between strategy setting and implementation, providing comprehensive coverage of the main areas of execution, and making it an essential compendium on all aspects of the subject. With case studies from major organizations from around the world, it is a 'must' read for anyone wishing to be at the forefront of international supply chain management thinking. Strategic Supply Chain Alignment brings together for the first time the world's leading logistics professionals, management consultants and academics to offer their insights and experiences on the latest supply chain management techniques. This collection of previously unpublished material offers the reader a unique opportunity to identify the hot issues, discover emerging strategies and uncover key industry and market perspectives. Divided into five sections which reflect the important components of the strategic alignment model, the book covers:

- ¢ The market: Customer value creation and segmentation, and the rationale behind the integration of supply with demand.*
- ¢ Strategic response: Considers channel strategy, supply chain configuration and operations and distribution management.*
- ¢ Culture: Adopting organization options which focus on deliv*

Dynamic Modelling for Supply Chain Management

Dynamic Supply Chain Model and Disruption Analysis

Strategy and Organization

A New Business Model for Peak Performance in Enterprise Supply Chains Across All Geographies

Adaptive Supply Chain Management

The Rise of China and the Future of Retail Supply Chain Management

ñJohn Gattorna is one of the most original thinkers in the fast-changing arena of supply chain management. He has pioneered the idea of dynamic alignment which is so powerfully presented in this ground-breaking book.ñ Martin Christopher, Professor of Marketing & Logistics, Cranfield School of Management Supply chains are at the heart of competitive advantage in business today. If supply chains are managed successfully, companies will be able to deliver

their products and services to customers in a smart, cost-effective way. The key to successful supply chain management is recognising that it's people who really drive the living supply chains that are at the heart of businesses. Supply chains are powered by the energy and expertise of employees and suppliers and by the changing wants and needs of customers. John Gattorna calls this principle of matching changing customer needs and desires with different supply chain strategies dynamic alignment . To secure space in a new market, to grow or keep existing markets companies have to get their products out there faster. They need to be the first with new products and services and the first to match them with particular customer groups. The dynamic alignment model gives a structured way of linking customer expectations to the operational side of business while maintaining the flexibility to systematically modify fulfilment processes as customers inevitably change their buying preferences.

Aviation Logistics looks at the function of the air cargo business and its role in global supply chains and logistics. As global economies are constantly evolving, the supply chain business with its transport partners must be proactive for the future. Technology and its resulting efficiency and transparency are therefore a central part of this book. Aviation Logistics examines how carriers are coming up with new methods and technologies to improve ground handling and road transport, traceability systems and barcoding, security and screening, and safe delivery of perishable items (such as in the pharmaceutical and medical sectors). Endorsed by The International Air Cargo Association (TIACA), Aviation Logistics is supplemented with case studies and contributions from a team of experts including Oliver Evans and Stan Wraight, both industry experts. Online resources available: Air Cargo News' Freighter Directory.

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Aviation Logistics

The Shipping Point

Modeling and Implementation

Dynamic Supply Chain Model of the Construction Industry

From Static Supply Chains to Dynamic Supply Webs

Realign Your Business to Better Serve Customers in a Disruptive World

Reinvent your supply chain from the outside in - leverage customer insight, heuristics and digital tools to meet rising expectations and adapt in a volatile world. Customers have become increasingly demanding, and the operating environment has become more turbulent and complex. Mature companies wishing to survive and thrive in the coming decades must transform themselves to become flexible and market responsive. They need to reconsider their traditional supply chains and find ways to increase the clockspeed of their operation and their decision making without creating more complexity for their staff and partners. But where to start this transformation journey? Most of the world's largest corporations have logistics networks and supply chains that have evolved over time, many based around systems that drive a 'one-size-fits-all' philosophy, which does not fit anymore. And most have not kept up with the changing cadence of their markets. This book describes the path to a different paradigm; where a set of tailored supply chains are used for in-built flexibility and adaptation as the world changes, and where internal capabilities and digital capabilities are consciously aligned with the customers and strategies they serve. Transforming Supply Chains builds on John Gattorna's seminal Dynamic Alignment framework; and he and his long-term collaborator Deborah Ellis review the analytics and decision-making tools needed to be effective in the digital age. Case Studies of organisations that excel using the 'outside-in' paradigm that they describe are scattered throughout the book; as are a series of prompts to help 'kick start your thinking' about your own transformation path. Transforming Supply Chains is your guide to designing supply chains that fit, and adapt, and bring competitive advantage - whatever your business and whoever your customers.

“John Gattorna is one of the most original thinkers in the fast-changing arena of supply chain management. He has pioneered the idea of dynamic alignment which is so powerfully presented in this ground-breaking book.” Martin Christopher, Professor of Marketing & Logistics, Cranfield School of Management Supply chains are at the heart of competitive advantage in business today. If supply chains are managed successfully, companies will be able to deliver their products and services to customers in a smart, cost-effective way. The key to successful supply chain management is recognising that it's people who really drive the living supply chains that are at the heart of businesses. Supply chains are powered by the energy and expertise of employees and suppliers and by the changing wants and needs of customers. John Gattorna calls this principle of matching changing customer needs and desires with different supply chain strategies dynamic alignment. To secure space in a new market, to grow or keep existing markets companies have to get their products out there faster. They need to be the first with new products and services and the first to match them with particular customer groups. The dynamic alignment model gives a structured way of linking customer expectations to the operational side of business while maintaining the flexibility to systematically modify fulfilment processes as customers inevitably change their buying preferences.

Sustainability of Products, Processes and Supply Chains: Theory and Applications presents the recent theoretical developments and applications on the interface between sustainability and process systems engineering. It offers a platform for cutting-edge, holistic

analyses of key challenges associated with computer-aided tools for incorporating sustainability principles and approaches into the design and operations of multi-scale process systems, ranging from molecular and products systems, to energy and chemical processes, and supply chains. Presents recent theoretical developments and applications on the interface between sustainability engineering and process engineering Offers cutting-edge, holistic analyses of key challenges associated with computer-aided tools for incorporating sustainability principles and approaches into the design and operations of multi-scale process systems Brings together the perspectives of leading researchers to stimulate innovative thinking in terms of sustainability

Strategic Planning for Dynamic Supply Chains

Cases from the Automotive Aftermarket Distribution System in China

Supply Chain Innovation for Competing in Highly Dynamic Markets

Dynamic Supply Chain Management in Oil and Gas Industry

Simulating the Neodymium Supply Chain Using Explicit Dynamic Supply and Demand

Dynamic Supply Chain Alignment