

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

"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. Our rapidly changing world has forced business practitioners, in corporation with academic researchers, to respond quickly and develop

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

?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

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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.

In the forthcoming decades, Eurasia will be a place of new growth and prosperity. China is rapidly increasing international infrastructure investments, such as stimulating the One Belt One Road Programme (or the Belt and Road Initiative) which will serve different European cities. This book covers block trains, intermodal and multimodal transport, piggyback transport, single-wagon transport and other types of freight traffic, offering an up-to-date, Eurasian perspective filled with many cases and models (with software re-creating the real world) that help the reader to understand the dynamics of the unprecedented changes that have taken place in

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logistics and supply chain management. The simulation process and systems approach are described in a simple and step-by-step format, allowing the reader to build models from scratch. Through the basics and essential concepts detailed here, even complete beginners will be able to quickly grasp the idea of the usability of a dynamic systems approach for managing Eurasian intermodal 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

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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.

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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.

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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

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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.

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

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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. This book bridges the fields of Supply Chain

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Management, Digital Transformation, and Dynamic Quality models in order to illustrate how digital transformation affects the work of researchers and managers in Supply Chain Quality problems. It aims to address the gap in scholarship regarding new technologies, updating the established literature to reimagine theoretical models, dynamic games, knowledge management, supply chain coordination solutions, interfaces in circular economies, and other functional spaces for a digital era. Written for researchers, managers, and practitioners, this book offers an accessible approach to the topics through clear, management-oriented chapters, reserving mathematical background for the Appendices. It discusses an array of modern challenges in digitization, including smart device installation, Cloud data accessibility, applications of AI systems, Supply Chain monitoring via Blockchains, using sensors in operations, and digital tool integration within traditional IS frameworks.

Channel coordination is a core subject of supply chain management. Over the past decade, much research effort has been devoted to exploring the detailed mechanisms for achieving supply chain coordination under uncertainty, generating many fruitful analytical and empirical results. Despite the abundance of research results, there is an absence of a comprehensive reference source that provides state-of-the-art findings on both theoretical and

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applied research on the subject. In addition, with the advance of knowledge and technologies, many new topics on supply chain coordination under uncertainty have appeared in recent years. This handbook extensively examines supply chain coordination challenges with a focal point on discovering innovative measures that can help tackle the existing and emerging challenges. The book is organized into five parts, which include chapters on innovative analytical models for coordination, channel power and bargaining, technological advancements and applications, empirical analysis, cases studies and review. This handbook provides new empirical and analytical results with precious insights, which will not only help supply chain agents to understand more about the latest measures for supply chain coordination under uncertainty, but also help practitioners and researchers to know how to improve supply chain performance based on innovative methods.

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-

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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.

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

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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 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.

"This book provides insights and supports executives, middle managers and practitioners concerned with the management of supply chain with expertise, knowledge, information and organizational management development in different

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types of industries"--Provided by publisher.

"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.

A guide to help readers meet the demands of an evolving competitive business environment, *Modeling of Responsive Supply Chain* outlines novel concepts and strategies for implementing a fully integrated system of business improvement methodologies. This self-contained reference covers various key aspects of supply chain management, which is crucial to boosting industrial growth in the face of expanding globalization in the manufacturing and transportation sectors. The book focuses on topics that could potentially improve the free flow of goods and services between nations by helping users assess the performance of logistic systems deployed to achieve this end. Chapters present a conventional and evolutionary approach to coordinating all elements of the supply chain to optimize an enterprise's competitive advantage. The authors explore different models associated with transportation, facility location, and assignments, as well as planning and scheduling. They also address diverse technologies, such as RFID tags used to

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monitor product flow within the supply chain network. This book addresses the importance of: Recognizing responsiveness as a metric of supply chain performance Domain interfaces for solving the optimization problem by making supply chains more responsive Coordination through contracts to enhance responsiveness System dynamics methodology to achieve responsiveness, as well as management principles, control theory, and computer simulation The use of different types of technologies to build a better supply chain that achieves higher responsiveness Few, if any, single volumes provide the detailed explanation of practical and conceptual approaches found in this book. It covers the entire spectrum of topics and will be equally useful as a reference for scholars and graduate students and as a compendium for practitioners dealing with real-life problems in contemporary supply chain management.

Design of Demand Forecasting Expert System for Dynamic Supply Chains.

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

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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

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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.

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

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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

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

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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.

"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.

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

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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 adaption 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.

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

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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?

Twenty-first-century supply chains have evolved into world-wide inter-connected supply-and-demand networks comprising vastly more complex operations, with profound inter-dependencies and exposure to greater volatility in our uncertain world. The linear concept of a chain is therefore no longer adequate to describe these complex international networks of suppliers, stakeholders, partners, regulators and customers that are involved in ensuring the efficient and effective movement of products, services, information and funds around the world - we are firmly in the era of Global Supply

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Chain Ecosystems. Exploring the latest market trends and industry developments across emerging, developing and developed markets, in Global Supply Chain Ecosystems industry leader Mark Millar presents detailed and practical insights that will help you capitalise on market opportunities, overcome supply chain challenges and make better informed business decisions. In addition to highlighting key supply chain shifts such as the move beyond globalisation back towards regionalisation, this ground-breaking new publication explores several critical aspects of global supply chain ecosystems - including visibility, resilience, sustainability and collaboration.

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

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useful information for new research and to those allied, affiliated with and peripheral to the field of supply chains and its management.

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

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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. “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

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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,

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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. Information is considered essential in every business model. Effective usage of this information to direct goals and drive missions can lead to successful enterprises. *Knowledge Integration Strategies for*

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Entrepreneurship and Sustainability is a critical reference source that expounds upon the critical methods in which new information is integrated into existing models for starting new companies and the ways in which these models interact and affect each other. Featuring coverage on a broad range of topics, such as tacit knowledge utilization, knowledge retention in small and medium-sized enterprises (SMEs), and knowledge dynamics in supply chain management, this book is geared toward academicians, researchers, and students seeking current research on the effect of information management in the interdisciplinary world of business creation as well as enterprise stability and longevity.

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

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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 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-

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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.

Companies frequently operate in an uncertain

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environment and many real life production planning problems imply volatility and stochastics of the customer demands. Thereby, the determination of the lot-sizes and the production periods significantly affects the profitability of a manufacturing company and the service offered to the customers. This thesis provides practice-oriented formulations and variants of dynamic lot-sizing problems in presence of restricted production resources and demand uncertainty. The demand fulfillment is regulated by service level constraints. Additionally, integrated production and remanufacturing planning under demand and return uncertainty in closed-loop supply chains is addressed. This book offers introductions to these problems and presents approximation models that can be applied under uncertainty. Comprehensive numerical studies provide managerial implications. The book is written for practitioners interested in supply chain management and production as well as for lecturers and students in business studies with a focus on supply chain management and operations management. In recent years, the supply chain has become a key element to the survival and prosperity of organisations in different industry sectors. Organisations dealing in dynamic business environments demand supply chains that support the satisfaction of customer needs. The principles of lean thinking that once permeated standalone

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organisations have now been transferred to the supply chain, making imperative the development of innovative approaches to supply chain management. Customer-driven Supply Chains: Strategies for Lean and Agile Supply Chain Design reviews the concept of lean thinking and its relationship to other key initiatives associated with supply chain management. Detailed industrial case studies based on the authors' experience illustrate the principles behind lean supply chains. Moreover, a series of diagrams are used to illustrate critical concepts and supply chain architectures. Special emphasis is placed on the importance of transferring lean principles from the organisational level to the supply chain level. The theory and principles behind lean supply chains are reviewed. Other concepts related to lean supply chains discussed in the book include: mass customisation, agility, information sharing and the bullwhip effect. A methodology used to measure the performance of supply chains is introduced; this methodology comprises the tools of decision timeline, data-flow diagramming, supply chain value stream mapping and a performance measurement scorecard. Readers will gain a clear picture of the competitive implications of lean supply chains. Customer-driven Supply Chains: Strategies for Lean and Agile Supply Chain Design will be a valuable resource of material to students studying supply chain/operations management as well as

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researchers in this field. Industry practitioners will learn how to develop sound supply chain strategies that can have a positive impact in their organisation. '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 presents cutting-edge knowledge on scientific approaches to the management of supply networks in a highly informed global environment with abundant dynamic and uncertain

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challenges"--Provided by publisher.

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