

# Supply Chain Dynamics A Case Study On The Structural

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## Quantitative Models for Value-Based Supply Chain

Management - Marcus Brandenburg 2012-10-25  
Supply chain management (SCM) strives for creating competitive advantage and value for customers by integrating business processes from end users through original suppliers. However, the question of how SCM influences the value of a firm is

not fully answered. Various conceptual frameworks that explain the coherence of SCM and company value, comprehended as value-based SCM, are well accepted in scientific research, but quantitative approaches to value-based SCM are found rather seldom. The book contributes to this research gap by proposing quantitative models that allow for assessing

influences of SCM on the value of a firm. Opposed to existing models that limit the observation to chosen facets of SCM or selected value drivers, this holistic approach is adequate to

- reflect configurational and operational aspects of SCM,
- cover all phases of the product life cycle,
- financially compare value impacts of profitability-related and asset-related value drivers, and
- assess influences of dynamics and uncertainties on company value.

### **Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications** - Management Association, Information Resources 2019-11-01

Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a

business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

[Life Cycle Management in Supply Chains: Identifying Innovations Through the Case of the VCR](#) - Higuchi, Toru  
2008-04-30

This book work on the intimate connection between the industry life cycle and supply chain management, utilizes the case of the industrial life cycle of the VCR to provide insight into the supply chain as the basic business unit for competition, and the requisite alteration of the management of the supply chain at each stage of the life cycle.

**Modeling of Responsive Supply Chain** - M.K. Tiwari  
2016-04-19

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 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.

Hierarchical Planning and Information Sharing Techniques in Supply Chain Management - Taghipour,

Atour 2019-01-22

Efficient supply chain management is essential for maintaining successful workflows within companies. A lack of decisional, organizational, and information integration can lead to increased cost for a business due to missed opportunities, delays, inefficient inventory decisions, poor capacity allocation, and misuse of

resources. Companies must employ collaborative practices across all functions of the supply chain in order to avoid costly mishaps. Hierarchical Planning and Information Sharing Techniques in Supply Chain Management is an essential reference source that discusses information exchanges and approaches of coordination related to operation planning for a better understanding of how hierarchical planning techniques and principles can contribute to the effective and efficient management and planning of supply chain activities. Featuring research on topics such as competitive advantages, information sharing, and transport management, this book is ideally designed for managers, academicians, and practitioners in the field of supply chain management, operations management, logistics, and operations research.

**The Sulphur Cap in Maritime Supply Chains** -

Olli-Pekka Hilmola 2018-09-10

This book examines the current and controversial topic of the sulphur cap in maritime supply chains, a new regulation set to be enforced in 2020. The author presents extensive research on three northern countries - Finland, Sweden and Estonia - and the effects they felt when these regulations were rolled out in 2015. These regional case studies are presented alongside extensive private sector data, annual reports and interviews to assess and forecast how the maritime supply chain will cope with rising costs and alternative approaches to environmental regulations. This book includes advanced regression analyses alongside interactive simulation models for the reader to evaluate new supply chain strategies and study the effects of these regulations.

**Mechanical Engineering for Sustainable Development: State-of-the-Art Research** - C.S.P. Rao 2019-01-04

This volume provides valuable insight into diverse topics related to mechanical

engineering and presents state-of-the-art work on sustainable development being carried out throughout the world by budding researchers and scientists. Divided into three sections, the volume covers machine design, materials and manufacturing, and thermal engineering. It presents innovative research work on machine design that is of relevance to such varied fields as the automotive industry, agriculture, and human anatomy. The second section addresses materials characterization, an important tool in assessing proper materials for application-oriented jobs, and emerging unconventional machining processes that are important in design engineering for new products and tools. The section on thermal engineering broadly covers the use of viable alternate fuels, such as HHO, biodiesel, etc., with the objective of reducing the burden on petroleum reserves and the environment.

Collaborative Principles for Better Supply Chain Practice -

Norman McLennan 2018-09-03  
Hyper competition and globalization mean that markets are changing. There is aggressive competition, shortening product life cycles, financial pressures and ever more demanding customers and consumers. Companies need to adopt new practices and new ways of thinking, so they are looking at collaboration across supply chains to become more sustainable, efficient and economical. Collaborative Principles for Better Supply Chain Practice looks at behavioural and commercial collaborative business principles and their application by means of case studies which showcase collaboration success across the private, public and 3rd sectors. Collaborative Principles for Better Supply Chain Practice covers different perspectives: the client looking down the supply chain, the suppliers looking up the supply chain and the inter-dependencies of organizations horizontally across the supply chain. The book explores

operational and project-type environments in different industry sectors, which will help you think about your supply chain differently and optimize your processes to achieve supply chain excellence. Online supporting resources include a bonus chapter and web links.

**Supply Chain Coordination under Uncertainty** - Tsan-Ming Choi 2011-08-14

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 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.

### **E-Business and Supply Chain Integration** - Ozlem Bak 2018-02-03

Using e-business technologies

to manage supply chains increases the efficiency and performance of logistics, production, distribution and other related activities. E-Business and Supply Chain Integration explains how a number of tools can be integrated to produce an e-supply chain, with the overall aim of achieving higher productivity. This essential book examines supply chain theories along with real life cases and examples from industry to illustrate how e-business can enhance supply chain integration and highlights the negative outcomes when it is neglected and poorly managed. Dr Ozlem Bak and a team of expert contributors from practice and academia assess the impact of e-business on numerous different sectors, such as automotive, healthcare, logistics, higher education, and professional services. E-Business and Supply Chain Integration explains the strategic implications of new technologies and provides guidance on effective supply

chains in e-businesses.

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

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

*Qualitative Research in Business & Management* -

Michael D Myers 2008-11-03

What are the key issues that concern Qualitative Research in Business and Management? In this advanced textbook, the author brings a wealth of insight to the research process. Combining the abstract and theoretical considerations with those of a practical nature, like those involved with interviewing for data, or for the final stage of writing up, Myers establishes an expansive

resource for those involved in qualitative research that will aid them from start to finish. In this book the reader will be provided with the resources to:

- Understand the underlying philosophies of qualitative research in business and management.
- Be aware of a variety of qualitative research methods
- Gain insight into examples of the previous use of qualitative methods in Business and Management.
- Analyse and critically evaluate research in, including discussion of using qualitative data analysis software.
- Carry out their own research in business and management.
- Write up their research for publication.

This book will be an indispensable resource both to those just embarking on their research as well as existing researchers in business and management.

**Topics in Time Delay**

**Systems** - Jean Jacques

Loiseau 2009-08-10

Time delays are present in many physical processes due to the period of time it takes for the events to occur. Delays are particularly more pronounced

in networks of interconnected systems, such as supply chains and systems controlled over communication networks. In these control problems, taking the delays into account is particularly important for performance evaluation and control system's design. It has been shown, indeed, that delays in a controlled system (for instance, a communication delay for data acquisition) may have an "ambiguous" nature: they may stabilize the system, or, in the contrary, they may lead to deterioration of the closed-loop performance or even instability, depending on the delay value and the system parameters. It is a fact that delays have stabilizing effects, but this is clearly confusing for human intuition.

Therefore, specific analysis techniques and design methods are to be developed to satisfactorily take into account the presence of delays at the design stage of the control system. The research on time delay systems stretches back to 1960s and it has been very active during the last twenty

years. During this period, the results have been presented at the main control conferences (CDC, ACC, IFAC), in specialized workshops (IFAC TDS series), and published in the leading journals of control engineering, systems and control theory, applied and numerical mathematics.

**Understanding Supply Chains : Concepts, Critiques, and Futures -**  
Steve New 2004-09-23

*Hierarchical Planning and Information Sharing Techniques in Supply Chain Management -* Atour Taghipour  
2018-12-17

"This book addresses the coordination of operations planning of supply chains involves simplifying complex decision problems into a hierarchy of mutually interdependent decision problems. It also provides insights and support executives concerned with the management of expertise, knowledge, information and organizational development in different types of work communities and

environments"--

**Global Perspectives on  
Green Business  
Administration and  
Sustainable Supply Chain  
Management** - Khan, Syed

Abdul Rehman 2019-12-15  
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 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 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 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, researchers, industry practitioners, academicians, and students.

*Adaptive Supply Chain  
Management* - Dmitry Ivanov  
2009-11-25

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. Structural Dynamics and Resilience in Supply Chain Risk Management - Dmitry Ivanov 2017-11-07

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? The Digital Supply Chain - Bart L. MacCarthy 2022-06-24

The Digital Supply Chain is a thorough investigation of the underpinning technologies, systems, platforms and models that enable the design, management, and control of digitally connected supply chains. The book examines the origin, emergence and building blocks of the Digital Supply Chain, showing how and where the virtual and physical supply chain worlds interact. It reviews the enabling technologies that underpin digitally controlled supply chains and examines how the discipline of supply chain management is affected by enhanced digital connectivity, discussing purchasing and procurement, supply chain traceability, performance management, and supply chain cyber security. The book provides a rich set of cases on current digital practices and challenges across a range of industrial and business sectors including the retail, textiles and clothing, the automotive industry, food, shipping and international logistics, and SMEs. It concludes with

research frontiers, discussing network science for supply chain analysis, challenges in Blockchain applications and in digital supply chain surveillance, as well as the need to re-conceptualize supply chain strategies for digitally transformed supply chains. Covers both theoretical and practical points-of-view Contains material that readers from different backgrounds and disciplines will find informative Examines digital practices and challenges in-depth across a wide range of sectors Provides up-to-date, critical insights on the design, management and control of digitally connected supply chains Written by experts with strong backgrounds in the field *Global Supply Chains in the Pharmaceutical Industry* - Nozari, Hamed 2018-11-09 In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in

the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility. Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. Global Supply Chains in the Pharmaceutical Industry provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the global economy.

**Handbook of Research on Strategic Supply Chain Management in the Retail Industry** - Kamath, Narasimha  
2016-02-09

Customer satisfaction is a pivotal component to any business that provides goods or services to the public. By effectively managing the flow of products, business can adapt to the growing demands of consumers and deliver successful customer service. The Handbook of Research on Strategic Supply Chain Management in the Retail Industry is an authoritative reference source for the latest scholarly research on properly managing business processes in order to satisfy end-user requirements and increase competitive advantage in the retail marketplace.

Highlighting concepts relating to field applications, customer relationships, and current trends in logistics management, this book is ideally designed for business professionals, managers, upper-level students, and researchers interested in innovative strategies and best practices in modern supply chains.

*Supply Chain Management in the Mastering Business in Asia*

*Series* - Bowon Kim 2005-11-04  
Supply chain management is a broader concept than logistics and extends beyond the company to all branches in the supply chain, including vendors, customers, carriers, facilitators, and channel intermediates. An in-depth understanding of supply chain fundamentals is imperative to create real value for the customer. Bowon Kim's Supply Chain Management examines the issues of effective SCM from the perspective of a dynamic organization, offering theoretical and empirical knowledge to effectively manage this interlocking series of transactions. Key decision dimensions are analyzed to better appreciate and manage the interrelationships between the critical elements of any SCM strategy: configuration, connection, inventory and logistics. Each element is reviewed to understand its dynamics and how it interacts with other factors to influence the overall performance of the supply chain. All linkages are scrutinized, from the optimum

characteristics of supply chain coordination to innovative collaboration; the evolution of a supply chain strategy is charted through the course of this unique reference book. By thoroughly studying this book, readers will be able to develop a highly effective and well-balanced perspective to elucidate significant managerial problems in supply chain management.

Cases on Supply Chain and Distribution Management: Issues and Principles - Garg, Miti 2012-01-31

"This book introduces readers to a wide selection of case studies covering a multitude of supply chains in different economies of the world and examines major issues related to supply chain management"-- Provided by publisher.

**Strengthening Post-Hurricane Supply Chain Resilience** - National Academies of Sciences, Engineering, and Medicine 2020-03-02

Resilient supply chains are crucial to maintaining the consistent delivery of goods

and services to the American people. The modern economy has made supply chains more interconnected than ever, while also expanding both their range and fragility. In the third quarter of 2017, Hurricanes Harvey, Irma and Maria revealed some significant vulnerabilities in the national and regional supply chains of Texas, Florida, the U.S. Virgin Islands, and Puerto Rico. The broad impacts and quick succession of these three hurricanes also shed light on the effectiveness of the nation's disaster logistics efforts during response through recovery. Drawing on lessons learned during the 2017 hurricanes, this report explores future strategies to improve supply chain management in disaster situations. This report makes recommendations to strengthen the roles of continuity planning, partnerships between civic leaders with small businesses, and infrastructure investment to ensure that essential supply chains will remain operational in the next major disaster.

Focusing on the supply chains food, fuel, water, pharmaceutical, and medical supplies, the recommendations of this report will assist the Federal Emergency Management Agency as well as state and local officials, private sector decision makers, civic leaders, and others who can help ensure that supply chains remain robust and resilient in the face of natural disasters.

### **Advances in Production Management Systems:**

### **Innovative Production Management Towards**

**Sustainable Growth** - Shigeki Umeda 2015-08-17

The two volumes IFIP AICT 459 and 460 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2015, held in Tokyo, Japan, in September 2015. The 163 revised full papers were carefully reviewed and selected from 185 submissions. They are organized in the following topical sections: collaborative networks; globalization and

production management; knowledge based production management; project management, engineering management, and quality management; sustainability and production management; co-creating sustainable business processes and ecosystems; open cloud computing architecture for smart manufacturing and cyber physical production systems; the practitioner's view on "innovative production management towards sustainable growth"; the role of additive manufacturing in value chain reconfiguration and sustainability; operations management in engineer-to-order manufacturing; lean production; sustainable system design for green products; cloud-based manufacturing; ontology-aided production - towards open and knowledge-driven planning and control; product-service lifecycle management: knowledge-driven innovation and social implications; and service engineering.

### The Dynamics of Local

### Learning in Global Value Chains - M. Kawakami 2011-07-19

This book investigates the process and mechanism of the capability development of East Asian local manufacturers, which has underpinned their phenomenal rise in the world's competitive landscape of industrial production during the last few decades.

### *Cases on Supply Chain Management and Lessons Learned from COVID-19* - Ana Paula Lopes 2021-10-30

"This book of contributed chapters allows researchers and academicians to exchange and share their experiences and results on all features of Logistics and Supply Chain Management, including theoretical and empirical research, case studies of important and fruitful applications in this field, leading to effective teaching and learning"--

### **Competitive Supply Chains** - Enver Yücesan 2023-02-04

This timely and highly relevant book refocuses the discussion on supply chain innovation for

an era of unprecedented challenges and opportunities in global supply chain operations. This third edition builds upon the ideas explored by the author in *Competitive Supply Chains* (2007, 2016), featuring new content and analysis, new case studies and a complete reassessment on the impact of new technologies, ESG requirements, and geopolitical challenges. Featuring case studies from European and Asian companies, this book is an essential resource for researchers and students of supply chain and operations management.

**New Frontiers in Asia-Latin America Integration** - Antoni Estevadeordal 2014-12-10  
Economic ties between Asia and Latin America are growing as a part of a global shift toward more South-South cooperation. Yet trade costs remain high, which may impede future interregional trade and integration. Furthermore, an emerging trans-Pacific trade architecture based on free trade agreements (FTAs) carries

risks of a noodle bowl effect. This book examines new frontiers in Asia-Latin America integration through interregional comparative studies in three key areas: trade facilitation, logistics, and infrastructure; production networks, supply chains, and small and medium-sized enterprises; and FTAs. The chapters contributed by Asian, Latin American, and international experts provide new insights on regional integration, impediments, and policy issues.

**Understanding the Dynamics of New Normal for Supply Chains** - Hassan

Qudrat-Ullah 2022

This book provides research results and shares experiences in the area of supply chain management. It addresses topics such as risk reduction of lesser marginal profits, disrupted supply chain management, and potential points of business failure. This book explores the "new normal" of the business supply chain. The didactic approach informs global enterprises on

how to deal with the most significant issues in the current supply chain management. The book shows an in-depth analysis of post-COVID opportunities and challenges and acts as an initiative for readers to understand the risks, opportunities, and concerns resulting from the pandemic situation and is a key driver for business management among industry professionals and enterprises. Readers will learn new insights and procedures to better manage multitier supply chains, predictability, and estimation of binding capacity. The book details modeling and technology-based customer demand and response management solutions. New techniques, methods, and perspectives dealing with the estimation, acceleration or deceleration, and flexibility of logistics capacity are particularly emphasized throughout the manuscript. Real-world cases dealing with various aspects of the new normal for supply chains are analyzed. The book is useful for

industry professionals and enterprise firms in business management to effectively understand risks, opportunities, and concerning the pandemic situation.

### **Simulation-Based Case Studies in Logistics** - Yuri

Merkuryev 2009-01-13

“Simulation-based Case Studies in Logistics” presents an intensive learning course on the application of simulation as a decision support tool to tackle complex logistic problems. The book describes and illustrates different approaches to developing simulation models at the right abstraction level to be used efficiently by engineers when dealing with strategic, tactical or operational decisions in logistic systems. 11 simulation-based case studies in logistics and supply chain management are discussed, based on the results of applied research, covering application areas such as production logistics, warehousing, transportation, material flow management, and hospital logistics. “Simulation-based Case Studies in

Logistics” is an essential text for postgraduate engineering students and researchers working in the area of logistics modeling and simulation.

**Mobile and Wireless Technology 2018** - Kuinam J. Kim 2018-07-23

This book presents peer-reviewed contributions from the 5th International Conference on Mobile and Wireless Technology (ICMWT 2018), held June 25-27, 2018 in Hong Kong. This conference provided researchers and practitioners from both academia and industry with a platform to keep them abreast of cutting-edge developments in the field. The book includes papers on mobile and wireless networks and their applications, the increasingly important security issues relating to mobile and wireless systems, data management, as well as the latest developments in mobile software development, and multimedia and wireless communications. *Applications of Contemporary Management Approaches in Supply Chains* - Hakan Tozan

2015-04-15

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

**Cases on Supply Chain Management and Lessons**

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## **Learned From COVID-19 -**

Lopes, Ana Paula 2022-01-07

In recent years, due to the increasingly aggressive market competition, it is essential to evaluate the role of logistics and supply chain management skills and applications for the success of any organization or business. The COVID-19 pandemic revealed the fragility of the sustainability of economic organization, production, and supply chains globally. Cases on Supply Chain Management and Lessons Learned From COVID-19 collects compelling case studies, theoretical and empirical research, experiences, and applications on numerous aspects of logistics and supply chain management. It not only focuses on industry and digital transformation and the critical nature of organizational agility, but also presents different methods, techniques, models, and competitive advantage prospects, providing an extremely relevant and current view of the subject matter. Covering topics such as green

supply chain management, organizational performance, and supply chain disruptions, this book is the ideal reference source for managers, supply chain specialists, entrepreneurs, business professionals, consultants, researchers, academicians, educators, and students.

## **Applied Computer Sciences in Engineering -**

Juan Carlos Figueroa-García 2019-10-09

This volume constitutes the refereed proceedings of the 6th Workshop on Engineering Applications, WEA 2019, held in Santa Marta, Colombia, in October 2019. The 62 revised full papers and 2 short papers presented in this volume were carefully reviewed and selected from 178 submissions. The papers are organized in the following topical sections: computer science; computational intelligence; bioengineering; Internet of things; power applications; simulation systems; optimization.

Innovative Solutions for Sustainable Supply Chains -  
Hassan Qudrat-Ullah

2018-08-28

This book presents the latest tools, techniques, and solutions that decision makers use to overcome the challenges faced by their sustainable supply chains. Given the ever increasing significance of socio-economic and environmental factors, the management of sustainable supply chains has become a complex and dynamic task. Multiple and conflicting objectives of stakeholders including suppliers, manufacturers, service providers, and retailers add to the complexity of decisions that modern day managers of supply chains face. With the unprecedented technological developments and innovations at hand, sustainability can be maximized for all the activities of a supply chain including: service concept and product design, material sourcing and procurement, manufacturing processes, delivery of the final product, and end-of-life management of the product. Consequently, the sustainable supply chains' problems

require a systematic and integrated approach. Modeling and simulation, in general, as well as system dynamics and agent-based modeling, in particular, have the capabilities to deal with the complexity of sustainable supply chain related problems. This book will appeal to professionals and researchers in the field.

*Supply Chain Simulation -*

Francisco Campuzano

2011-07-16

Supply Chain Simulation allows readers to practice modeling and simulating a multi-level supply chain. The chapters are a combination of the practical and the theoretical, covering: knowledge of simulation methods and techniques, the conceptual framework of a typical supply chain, the main concepts of system dynamics, and a set of practice problems with their corresponding solutions. The problem set includes illustrations and graphs relating to the simulation results of the Vensim® program, the main code of which is also provided. The examples used are a

valuable simulation tool that can be modified and extended according to user requirements. The objective of Supply Chain Simulation is to meet the demands of supply chain simulation or similar courses taught at the postgraduate level. The “what if” analysis recreates different simulation scenarios to improve the decision-making process in terms of supply chain performance, making the book useful not only for postgraduate students, but also for industrial practitioners.

*Innovative Logistics Services and Sustainable Lifestyles* - Ani Melkonyan 2019-02-26

This edited volume aims to describe the transformation of supply chain management (SCM) and logistics services by merging sustainable logistics, SCM, sustainable consumption and lifestyle research. This assessment of the transformation potential serves the development of sustainable business models and optimized decision-making systems for achieving sustainable economic value creation within a green

economy. In 5 sections, the volume takes a unique transdisciplinary approach to assess sustainable business practices within SCM and the logistics sector, and to understand the interactions between logistics services and consumer lifestyles while creating transparency within the decision making process. This book will be of particular interest to academics, policymakers, planners, and politicians. Section 1 introduces readers to the importance of blended research and innovation between sustainable SCM and consumer lifestyles for transformation towards a green economy. Section 2 addresses the question of how trends and developments in consumption behavior and lifestyles influence the development of sustainable logistics. Section 3 discusses the transformation potential towards sustainable logistics using the food sector as an example. Section 4 focuses on strategic decision making in SCM, and how long-term improvements of

sustainability performance can be achieved. Section 5 concludes with policy recommendations as well as research and innovation perspectives for future sustainable development with SCM and logistics.

Innovative Solutions for Implementing Global Supply Chains in Emerging Markets -

Dwivedi, Ashish 2016-01-28  
Advancements in the field of information technology have transformed the way businesses interact with each other and their customers. Businesses now require customized products and services to reflect their constantly changing environment, yet this results in cutting-edge products with relatively short lifecycles.

Innovative Solutions for Implementing Global Supply Chains in Emerging Markets addresses the roles of knowledge management and information technology within emerging markets. This forward-thinking title explores the current trends in supply chain management, knowledge

acquisition and transfer mechanisms among supply chain partners, and knowledge management paradigms. This book is an invaluable resource for researchers, business professionals and students, business analysts, and marketing professionals.

**Supply Chain Management Models** - Hamed

Fazlollahtabar 2018-01-02  
Supply Chain Management (SCM) is a wide field in which several specialties are included. In general, operations and production management players use SCM to organize the problems and analyze the solution approaches. Due to these points, a reference which can encompass a range of problems and their modelling approaches is required. This book will contain three general sections of forward, reverse, intelligent, and uncertain problems. While the book provides different problems in the three commonly used categories in SCM, it is very helpful for the readers to find out, or adapt their own application studies to

the ones given in the book and employ the corresponding modeling approach.