

Reconfiguration Of The Supply Chain Structure Elabestlog

On March 12th 2020, World Health Organization (WHO) declared the spreading of the new virus, 2019-nCoV, a pandemic. In Asia, the virus, more commonly referred to as COVID-19, has been spreading since the end of December. To contain the public health threat, almost all countries enforced a variety of measures, including lockdowns, to minimize face-to-face human interactions between the infected and the susceptible. While these vigilant measures save lives, they also generate a substantial negative economic shock that immediately halts demand and significantly disrupts supply, global production value chain and trade. The consequences are dire — considerable decline in output, massive surge in unemployment, countless bankruptcy cases, and unrelentless worries over financial stability. The result, a worldwide economic setback, is more severe than that experienced during the Great Financial Crisis of 2008-2009. Asia's experiences with COVID-19 precede that in the West. This fortuitous timing allows Asia to share its learnings drawn from experiences to benefit the world. The Asian Bureau of Finance and Economic Research's (ABFER) community has gathered a collection of insights to inform the public. Besides providing access to research on the pandemic conducted in Asia,

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these commentaries offer comprehensive information on the effects of the pandemic, the effectiveness of measures employed to contain it and the subsequent economic impacts from such implementation. With granular analyses of government policies and their associated economic rescue packages, these commentaries elucidate the hard trade-offs between public health protection and economic security. Finally, the commentaries address the broader impact of the pandemic on international trade, global value chains and society.

This book provides a global perspective on the various issues that the industry has to face as well as to provide some key global strategies that can help coping with those global challenges, such as collaboration, strategic value chain planning, and interdependency analyses. It presents literature reviews, strategic research orientations, assessment of some current key issues, and state-of-the-art methodologies. This book focuses on the connotation and the basic structure of smart supply chain finance and on this basis, systematically explores the elements of smart supply chain finance innovation, and further proposes a five-dimensional model for the realization of smart supply chain finance-SMART. The book also explores the risk management issues of smart supply chain finance from the perspective of industrial risk management.

The two volumes IFIP AICT 397 and 398

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constitute the thoroughly refereed post-conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2012, held in Rhodes, Greece, in September 2012.

The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 6 parts: sustainability; design, manufacturing and production management; human factors, learning and innovation; ICT and emerging technologies in production management; product and asset lifecycle management; and services, supply chains and operations.

Supply Chain Configuration

Intangible Assets and Value Creation

Operations, Logistics and Supply Chain Management

Effect of Reconfiguration Characteristics on Manufacturing System Capacity Selection

The VASC Model

Smart and Sustainable Collaborative Networks

4.0

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

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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 constitutes the refereed proceedings of the 22nd IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2021, held in Saint-Étienne, and virtually in November 2021. The 70 papers (15 full and 55 short) presented with 5 industrial workshop papers were carefully reviewed and selected from 189 submissions. They provide a comprehensive

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overview of major challenges and recent advances in various domains related to the digital transformation and collaborative networks and their applications with a strong focus on the following areas related to the main theme of the conference: sustainable collaborative networks; sustainability via digitalization; analysis and assessment of business ecosystems; human factors in collaboration 4.0; maintenance and life-cycle management; policies and new digital services; safety and collaboration management; simulation and optimization; complex collaborative systems and ontologies; value co-creation in digitally enabled ecosystems; digitalization strategy in collaborative enterprises' networks; pathways and tools for DIHs; socio-technical perspectives on smart product-service systems; knowledge transfer and accelerated innovation in FoF; interoperability of IoT and CPS for industrial CNs; sentient immersive response network; digital tools and applications for collaborative healthcare; collaborative networks and open innovation in education 4.0; collaborative learning networks with industry and academia; and industrial workshop.

This dissertation discusses two

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independent topics. The first part of the dissertation relates three theories of international economics (comparative advantage, competitive advantage, and competitiveness), and formulates the thesis that incorporating them in the form of readily available individual competitiveness indicators in OR/MS models offers promise to enhance decision-support for the strategic planning of global supply chains in general, and for locating facilities in particular. The objectives of this research were to relate each of these theories and to describe their interrelationships; to describe measures provided by two well-known annual competitiveness reports; and to illustrate application of the theories as a means of supporting the thesis of the research, and justifying the research questions we pose for future research. While this research discusses topics relative to the broader background of global supply chain design, it illustrates applications associated with facility location, a component of the global supply chain design. In the last chapter of the first part of the dissertation, we provide a vision to foster future research that will enhance the profitability of international enterprises under NAFTA. The second part

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of the dissertation deals with the DSCR model with capacity expansion and contraction. The strategic dynamic supply chain reconfiguration (DSCR) problem is to prescribe the location and capacity of each facility, select links used for transportation, and plan material flows through the supply chain, including production, inventory, backorder, and outsourcing levels. The objective is to minimize total cost. The configuration must be dynamically redesigned over time to accommodate changing trends in demand and/or costs by opening facilities, expanding and/or contracting their capacities, and closing facilities. The problem involves a multi-period, multi-product, multi-echelon supply chain. Research objectives are alternative formulations of DSCR and tests that identify the computational characteristics of each model to determine if one offers superior solvability in comparison with the others. To achieve the first objective, we present an initial MIP model, a refined model that relates decision variables according to a convenient structure, and branch and price (B & P) schemes for the refined model. We found that the network-based formulation offered superior solvability compared to

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the traditional formulation.

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.

The New (Ab)Normal

Proposed Reconfiguration of the National Defense Stockpile : Hearing Before the Readiness Subcommittee of the Committee on

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***Armed Services, House of Representatives,
One Hundred Eleventh Congress, First
Session, Hearing Held July 23, 2009***

Managing the Global Supply Chain

***Digital Supply Networks: Transform Your
Supply Chain and Gain Competitive***

***Advantage with Disruptive Technology and
Reimagined Processes***

Orchestrating Supply Chain Opportunities

Advancing Sustainable Economic Systems

Companies in the footwear and apparel industry must deal with many supply chain challenges, including intense competition, long production lead times, reliance on international carriers, and shifting consumer preferences. For many large companies, only design and distribution are performed internally. This places pressure on footwear and apparel companies to continually improve supply chain management. This study considers a company in the footwear and apparel industry and its option to consolidate distribution for two separate regions into one. One region currently serves nine times the demand of the other region. In addition, there are differences in labor and transportation costs between the two regions. The company would like to understand the financial, operational, and service impacts associated with consolidation. This study uses a total logistics system approach with particular focus on inventory. The results indicate that if the company were to consolidate distribution for the two regions into one, then there would be a slight total logistics system cost increase. This is due mainly to differences in labor and transportation costs between the two regions. However, sensitivity analysis indicates that if some costs can be

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reduced, there may actually be potential savings associated with consolidating the two regions. Applying sophisticated management techniques to freight transport offers the potential for significant cost savings as well as greater efficiency. Yet the inherent complexity of intermodal transport presents many challenges. This practical textbook on the operations of intermodal transport and logistics focuses on the practical concerns and the basics of operations, such as vehicles, containers, handling operations, logistics management and optimisation. All chapters are written by field specialists, and the volume includes additional chapters on economics, law and the environment to put the practical topics into context. It presents a balanced textbook for postgraduate students and also a reference text for those in industry or the public sector involved in the planning of intermodal freight transport.

The approach used on a given spend item should largely depend on the balance between supply power and demand power. That is the logic behind the bestselling Purchasing Chessboard®, used by hundreds of corporations worldwide to reduce costs and increase value with suppliers. The 64 squares in the Purchasing Chessboard provide a rich reservoir of methods that can be applied either individually or combined. And because many of these methods are not customarily used by procurement, the Purchasing Chessboard is also the perfect tool for helping buyers to think and act outside the box and find new solutions. A well-proven concept that works across all industries and all categories in any given situation, it is little wonder that business leaders and procurement professionals alike are excited by, and enjoy strategizing around, the Purchasing Chessboard. This second edition of The Purchasing Chessboard

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addresses the new realities of a highly volatile economic environment and describes the many—sometimes surprising—ways in which the Purchasing Chessboard is being used in today's business world. Yet despite all of the great achievements of procurement executives and their teams, they do not always receive the recognition they deserve. In response, the authors have developed and outlined within the book an unequivocal approach to measure procurement's impact on a company's performance—Return on Supply Management Assets (ROSMA®).

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.

Forest Value Chain Optimization and Sustainability

Connective Technologies in the Supply Chain

64 Methods to Reduce Costs and Increase Value with Suppliers

A Critical Approach

Managing Supply Chain Risk and Disruptions: Post

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COVID-19

Intelligent Production Machines and Systems - 2nd I*PROMS Virtual International Conference 3-14 July 2006

This book provides an overview of important trends and developments in logistics and supply chain research, making them available to practitioners, while also serving as a point of reference for academicians. Operations and logistics are cornerstones of modern supply chains that in turn are essential for global business and economics. The composition, character and importance of supply chains and networks are rapidly changing, due to technological innovations such as Information and Communication Technologies, Sensors and Robotics, Internet of Things, and Additive Manufacturing, to name a few (often referred to as Industry 4.0). Societal developments such as environmental consciousness, urbanization or the optimal use of scarce resources are also impacting how supply chain networks are configured and operated. As a result, future supply chains will not just be assessed in terms of cost-effectiveness and speed, but also the need to satisfy agility, resilience and sustainability requirements. To face these challenges, an understanding of the basic as well as more advanced concepts and recent innovations is essential in building competitive and sustainable supply chains and, as part of that, logistics and operations. These span multiple disciplines and geographies, making them interdisciplinary and international. Therefore, this book contains contributions and views from a variety of experts from multiple countries, and combines management, engineering as well as basic information technology and social concepts. In

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particular, it aims to: provide a comprehensive guide for all relevant and major logistics, operations, and supply chain management topics in teaching and business practice address three levels of expertise, i.e., concepts and principles at a basic (undergraduate, BS) level, more advanced topics at a graduate level (MS), and finally recent (state-of-the-art) developments at a research level. In particular the latter serve to present a window on current and future (potential) logistics innovations in the different thematic fields for both researchers and top business practitioners integrate a textbook approach with matching case studies for effective teaching and learning discuss multiple international perspectives in order to represent adequately the true global nature of operations, logistics and supply chains. I*PROMS 2005 is an online web-based conference. It provides a platform for presenting, discussing, and disseminating research results contributed by scientists and industrial practitioners active in the area of intelligent systems and soft computing techniques (such as fuzzy logic, neural networks, evolutionary algorithms, and knowledge-based systems) and their application in different areas of manufacturing. Comprised of 100 peer-reviewed articles, this important resource provides tools to help enterprises achieve goals critical to the future of manufacturing. I*PROMS is an European Union-funded network that involves 30 partner organizations and more than 130 researchers from universities, research organizations, and corporations. * State-of-the-art research results * Leading European researchers and industrial practitioners * Comprehensive collection of indexed

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and peer-reviewed articles in book format supported by a user-friendly full-text CD-ROM with search functionality

The objective of this book is to support readers facing the urgency, challenges, analysis, and methodologies to reconfiguration. It presents a comprehensive framework for reconfiguring manufacturing enterprises and provides a set of valuable conceptual frameworks and methodologies for analyzing, evaluating, and assessing reconfiguration indices. This book offers practical guidance for implementing the Fourth Industrial Revolution (Industry 4.0). It presents open-ended problems pertaining to the concepts covered in the book and provides a new approach for reconfiguring industrial systems. Not only is this book for industrialists and academics, it will also appeal to undergraduate and graduate students studying industrial, mechanical, and manufacturing engineering. Scholars and practitioners in operations management will also find this book of interest. Despite over three decades of debate around the nature of human resource management (HRM), its intellectual boundaries and its application in practice, the field continues to be dogged by a number of theoretical and practical limitations. Written by an international team of respected scholars, this updated textbook adopts a critical perspective to examine the core management function of HRM in all its complexity - including its darker sides. Human Resource Management: A Critical Approach opens with a critique of the very concept of HRM, tracing its development over time, and then systematically analyses the context of HRM,

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practice of HRM and international perspectives on HRM. New chapters commissioned for this second edition look at HRM and the issues of diversity, migration, global supply chains and economic crisis. This textbook is essential reading for advanced and inquisitive students of HRM, and for HRM professionals looking to deepen their understanding of the complexities of their field.

Intermodal Freight Transport and Logistics

IFIP TC 5 WG 5.5 Sixth IFIP Working Conference on VIRTUAL ENTERPRISES, 26-28 September 2005, Valencia, Spain

Adaptive Supply Chain Management

22nd IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2021, Saint-Étienne, France, November 22-24, 2021, Proceedings

Impact Of Covid-19 On Asian Economies And Policy Responses

Concepts, Solutions, and Applications

The book develops manufacturing concepts and applications beyond physical production and towards a wider manufacturing value chain incorporating external stakeholders that include suppliers of raw materials and parts, customers, collaborating manufacturing companies, manufacturing service providers, and environmental organisations. The focal point of the value chain remains as a manufacturing system and its operations whiles flows of parts/materials and information and services across the supply/value chain tiers are taken into account. The book emphasises on the two innovative paradigms of Reconfigurable Manufacturing Systems (RMS) and the 4th industrial

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revolution (Industry 4.0) along with their incorporated development. RMS, as a relatively new paradigm, has been introduced to meet the requirements of 'the factories of the future', which is aimed by Industry 4.0, though introducing greater responsiveness and customised flexibility into production systems, in which changes in product volumes and types occur regularly. Manufacturing responsiveness can be achieved by RMS through reconfiguring the production facilities according to changing demands of products and new market conditions. The book addresses challenges of mass-customisation and dynamic changes in the supply-chain environment by focusing on developing new techniques related to integrability, scalability and re-configurability at a system level and manufacturing readiness in terms of financial and technical feasibility of RMS. It demonstrate the expected impacts of an RMS design on operational performance and its supply/value chain in the current/future manufacturing environment facing dynamic changes in the internal/external circumstances. In order to establish a circular economy through the RMS value chain, an integrated data-based reconfiguration link is introduced to incorporate information sharing amongst the value chain stakeholders and facilitate grouping products into families with allocation of the product families to the corresponding system configurations with optimal product-process allocation. Decision support systems such as multi criteria decision making tools are developed and applied for the selection of product families and optimising product-process configuration. The proposed models are illustrated through real case

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studies in applicable manufacturing firms.

Deliver unprecedented customer value and seize your competitive edge with a transformative digital supply network Digital tech has disrupted life and business as we know it, and supply chain management is no exception. But how exactly does digital transformation affect your business? What are the breakthrough technologies and their capabilities you need to know about? How will digital transformation impact skills requirements and work in general? Do you need to completely revamp your understanding of supply chain management? And most importantly: How do you get started? Digital Supply Networks provides clear answers to these and many other questions. Written by an experienced team comprised of Deloitte consultants and leading problem-driven scholars from a premier research university, this expert guide leads you through the process of improving operations building supply networks, increasing revenue, reimagining business models, and providing added value to customers, stakeholders, and society. You'll learn everything you need to know about: Stages of development, roles, capabilities, and the benefits of DSN Big data analytics including its attributes, security, and authority Machine learning, Artificial Intelligence, Blockchain, robotics, and the Internet of Things Synchronized planning, intelligent supply, and digital product development Vision, attributes, technology, and benefits of smart manufacturing, dynamic logistics, and fulfillment A playbook to guide the digital transformation journey Drawing from real world-experience and problem-driven

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academic research, the authors provide an in-depth account of the transformation to digitally connected supply networks. They discuss the limitations of traditional supply chains and the underlying capabilities and potential of digitally-enabled supply flows. The chapters burst with expert insights and real-life use cases grounded in tomorrow's industry needs. Success in today's hyper-competitive, fast-paced business landscape, characterized by the risk of black swan events, such as the 2020 COVID-19 global pandemic, requires the reimagination and the digitalization of complex demand-supply systems, more collaborative and connected processes, and smarter, more dynamic data-driven decision making which can only be achieved through a fully integrated Digital Supply Network. This book discusses the models and tools available for solving configuration problems, emphasizes the value of model integration to obtain comprehensive and robust configuration decisions, proposes solutions for supply chain configuration in the presence of stochastic and dynamic factors, and illustrates application of the techniques discussed in applied studies. It is divided into four parts, which are devoted to defining the supply chain configuration problem and identifying key issues, describing solutions to various problems identified, proposing technologies for enabling supply chain confirmations, and discussing applied supply chain configuration problems. Its distinguishing features are: an explicit focus on the configuration problem an in-depth coverage of configuration models an emphasis on model integration and application of information modeling

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techniques in decision-making New to this edition is Part II: Technologies, which introduces readers to various technologies being utilized for supply chain configuration and contains two new chapters. The volume also has an added emphasis on the most recent theoretical developments and empirical findings in the area of supply chain management and related topics. This book is appropriate for professional and technical readers, including research directors, research associates, and institutions involved in both the design and implementation of logistics systems in manufacturing and service-related products. An equally appropriate audience is the academic reader, including professors, research associates, and students in industrial, manufacturing, mechanical, and automotive engineering departments, as well as engineering management, management sciences, and production and operations management.

This book focuses on the need to develop sustainable supply chains - economically, environmentally and socially. This book is not about a wish list of impractical choices, but the reality of decisions faced by all those involved in supply chain management today. Our definition of sustainable supply chains is not restricted to so-called "green" supply chains, but recognises that in order to be truly sustainable, supply chains must operate within a realistic financial structure, as well as contribute value to our society. Supply chains are not sustainable unless they are realistically funded and valued. Thus, a real definition of sustainable supply chain management must take account of all relevant economic, social and

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environmental issues. This book contains examples from a wide range of real-life case studies, and synthesizes the learnings from these many different situations to provide the fundamental building blocks at the centre of successful logistics and supply chain management.

Integrated Reconfigurable Manufacturing Systems and Smart Value Chain

Reshaping Business and Supply Chain Strategy Beyond Covid-19

The Reconfiguration of the Global Supply Chains of Critical Materials

A Danish Study

International Supply Chain Reconfiguration: A case study over a Premium Consumer Goods Company

Distribution Network Reconfiguration for an Apparel Manufacturer

The world today faces global competition. The supply chain is a vital part of the globalization process.

Presenting a global view of the scope and complexity of supply chain management, this book reflects the rapid change that has taken place within the supply chain and its environment.

This third edition has been fully updated with recent changes in concepts, technology, and practice. Integration and collaboration are keywords in future competition. Firms must be agile and lean at the same time. The book gives an

insightful overview of the conceptual foundations of the global supply chain, as well as current examples of the best practice of managing supply chains in a global context.

With the use of practical in-depth case studies and interviews with leading experts in the field, this book analyses the key elements in value creation in the new age. It provides practical guidance to organisations that will allow them to migrate successfully into an economy that demands new business models.

Much has been written about Covid-19 victims, how scientists raced to understand and treat the disease, and how governments did (or did not) protect their citizens. Less has been written about the pandemic's impact on the global economy and how companies coped as the competitive environment was upended. In his new book, "The New (Ab)Normal", MIT Professor Yossi Sheffi maps how the Covid-19 pandemic impacted business, supply chains, and society. He exposes the critical role supply chains play in helping people, governments, and companies to manage the crisis. The book draws on executive

interviews, pandemic media coverage, and historical analyses. Sheffi also builds on themes from his books "The Resilient Enterprise" (2005) and "The Power of Resilience" (2015) to enrich the narrative. The author paints a compelling picture of how the Covid-19 virus is changing many facets of human life and what our post-pandemic world might look like. This must-read book helps companies to redefine their business models and adjust to a fast-evolving economic landscape. The stage is set In Part 1 of the book, "What Happened," the author looks at how companies fought to mend the global economic fabric even as the virus ripped more holes in it. Part 2, "Living with Uncertainty," views the crisis through a supply chain risk management lens derived from Yossi Sheffi's previous books. This perspective shows how companies create corporate immune systems to quickly recognize and manage large-scale disruptions. The ongoing pandemic is creating a new normal in life, work, and education—covered in Part 3, "Adjustment Required." Consumer fears

about the contagion as well as government mandates require businesses in industries such as retail, hospitality, entertainment, sports, and education to create “safe zones” for workers and customers. Many elements of the book - especially in Part 4, “Supply Chains for the Future” - show how the virus accelerated preexisting trends in technology adoption. China was the epicenter of the pandemic; it also was the first nation to be disrupted and recover. Part 5 of the book, “Of Politics and Pandemics,” explains why reports that companies are abandoning China in favor of other offshore manufacturing centers do not reflect reality. Fundamentally, The New (Ab)Normal is about businesses trying to create a better future in a time of extreme uncertainty - a point emphasized in Part 6, “The Next Opportunities.” The outlook is not necessarily gloomy. The advance of technology is accelerating, a trend that can level the playing field between small and large companies. Nimble small businesses are using a growing array of off-the-shelf cloud computing and mobile

apps to deploy sophisticated technologies in their supply chains and customer interfaces. The New (Ab)Normal Another new normal is working from home. Remote working enables individuals to live anywhere and companies to recruit talent from anywhere. Education, especially higher education, faces a major disruption (and major opportunity) that is likely to shake the high-cost model of in-person education in favor of online or hybrid education. Regrettably, the book recognizes one trend accentuated by Covid-19--the growing inequality, and anticipates that the new normal will be more stratified.

Against this current trend of low growth and high uncertainty, business directors must work with their shareholders to set strategic objectives and define business models. The great number of possible strategies makes this type of management very complex, and the actual deployment of strategic choices is often limited by a lack of overall coherence within the organization. This problem calls for an appropriate and renewed response. In strategic

management today, a closer, permanent dialogue is needed between operational and financial performance. Based on a supply chain approach, the Value Added Supply Chain (VASC) model focuses on driving operational performance, but aims to achieve a greater and more dynamic integration between these two dimensions of the company's value creation.

Useful Methods and Techniques

The Purchasing Chessboard

**Reconfiguration of Supply Chain Systems
development of an analytic model for
establishing sourcing choices in an
international supply chain**

**Proceedings of the 8th Changeable,
Agile, Reconfigurable and Virtual
Production Conference (CARV2021) and
the 10th World Mass Customization &
Personalization Conference (MCPC2021),
Aalborg, Denmark, October/November
2021**

**Structural Dynamics and Resilience in
Supply Chain Risk Management**

This incisive book integrates the academic fields of sustainable consumption and production (SCP) and sustainable supply chain management (SSCM) as a framework for challenging the current economic paradigm and addressing the significant

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ecological and environmental problems faced by the contemporary business world.

This book is written for practitioners and researchers who are currently working in the field of supply chain management and operations management. It provides a thorough explanation of the supply chain configuration problem as well as offers solutions that combine the mathematical aspects of problem solving with applications in modern information technology.

Rapid time-to-market expectations and the demand for custom-tailored products present real challenges for the rigid and fixed linear supply chains that compete in today's economy.

Connective technologies meet these challenges head on by integrating the necessary people, information, and products beyond their current limitations. *Connective Technologies in the Supply Chain* illustrates the impact that connective technologies have across supply chains. It provides strategic frameworks, conceptual and analytical models, and case studies that focus on the design, development, and implementation of these technologies as they pertain to the management of engineering and manufacturing operations. Placing particular emphasis on RFID, the book addresses issues that include those involving GPS, inventory management, quality control, mobile technology, and security challenges. The book presents an overview of RFID applications, its underlying concepts and principles, and a macro perspective on its implementation in the manufacturing and service sectors. It also provides a feasible design of the technology's enabled knowledge-based supply chain management system. *Connective Technologies in the Supply Chain* is an essential resource for those who would like to expand their knowledge of-and increase their success with-these applications.

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This book summarizes the effect of COVID-19 on the global supply chain. Eminent researchers, practitioners, and professors discuss the challenges faced by supply chain providers and supply chain strategies related to various global, retail, fast moving consumer goods, humanitarian, pharmaceutical, and agricultural supply chains. This book also suggests the resilient approach adopted by supply chain organizations for quick recovery and re-establishing their networks. This book helps the readers explore the pandemic's impact on the supply chain and rebuilding the same using suitable approaches.

Behaviours and Outcomes in the Cobalt Sector

Smart Supply Chain Finance

Sustainable Supply Chain Management

IFIP WG 5.7 International Conference, APMS 2012, Rhodes, Greece, September 24-26, 2012, Revised Selected Papers, Part II

An Approach to Achieving Dependability

Practical Ideas for Moving Towards Best Practice

This book features state-of-the-art contributions from two well-established conferences:

Changeable, Agile, Reconfigurable and Virtual Production Conference (CARV2020) and Mass Customization and Personalization Conference (MCPC2020). Together, they focus on the joint design, development, and management of products, production systems, and business for sustainable customization and personalization. The book covers a large range of topics within this domain, ranging from industrial success factors to original contributions within the field.

Progress in collaborative networks continues

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showing a growing number of manifestations and has led to the acceptance of Collaborative Networks (CN) as a new scientific discipline. Contributions to CN coming from multiple reference disciplines has been extensively investigated. In fact developments in CN have benefited from contributions of multiple areas, namely computer science, computer engineering, communications and networking, management, economy, social sciences, law and ethics, etc. Furthermore, some theories and paradigms defined elsewhere have been suggested by several research groups as promising tools to help define and characterize emerging collaborative organizational forms. Although still at the beginning of a long way to go, there is a growing awareness in the research and academic world, for the need to establish a stronger theoretical foundation for this new discipline and a number of recent works are contributing to this goal. From a utilitarian perspective, agility has been pointed out as one of the most appealing characteristics of collaborative networks to face the challenges of a fast changing socio-economic context. However, during the last years it became more evident that finding the right partners and establishing the necessary preconditions for starting an effective collaboration process are both costly and time consuming activities, and therefore an inhibitor of the aimed

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agility. Among others, obstacles include lack of information (e.g. non-availability of catalogs with normalized profiles of organizations) and lack of preparedness of organizations to join the collaborative process. Overcoming the mismatches resulting from the heterogeneity of potential partners (e.g. differences in infrastructures, corporate culture, methods of work, and business practices) requires considerable investment. Building trust, a pre-requisite for any effective collaboration, is not straight forward and requires time. Therefore the effective creation of truly dynamic collaborative networks requires a proper context in which potential members are prepared to rapidly get engaged in collaborative processes. The concept of breeding environment has thus emerged as an important facilitator for wider dissemination of collaborative networks and their practical materialization. The PRO-VE'05 held in Valencia, Spain, continues the 6th event in a series of successful working conferences on virtual enterprises. This book includes selected papers from that conference and should become a valuable tool to all of those interested in the advances and challenges of collaborative networks. Efficient planning and superior execution against clear objectives is the way companies operate best. For many companies, the planning process is carefully orchestrated, objectives are set, budgets

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are negotiated, resources are allocated, and then it's up to the organization to execute. But what happens when the unexpected occurs? Say, an event occurs that throws the status quo into turmoil. What if your business declines by 40% in 1 month, what do you do? Conversely, what if your demand spikes by 50% in just a few months, what then? Suppose a natural disaster happens, or a new technology creates a significant, but unplanned opportunity? We call these events 'stretch opportunities'. This book will focus on strategic thinking and tactical examples of how best to prepare for such events. We will outline common themes across all such challenges. We will introduce three key management concepts: Flexibility, Agility and Real Options. We also include a specific chapter on how to structure supply chains to capitalize on stretch opportunities and we provide specific tactical frameworks to build in agility, flexibility and real options into a supply chain. We will end with a checklist that managers can use to ensure that the right questions are asked in developing supply chains so that the ability to "surge" at profitable opportunities is nourished.

Supply Chain Management and Business Performance

Supply Chain Management

Towards Sustainable Customization: Bridging Smart

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Products and Manufacturing Systems

Supply Chain Engineering

Sustainable Consumption, Production and Supply Chain Management

An Inventory Analysis