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.

Supply Chain Risk Management

“This book provides a valuable resource for all those who seek to understand the sources of supply chain risk and provides powerful insights into how that risk might be mitigated.” — Martin Christopher, Emeritus Professor of Marketing & Logistics, Cranfield School of Management, UK “This handbook is perfectly balanced with academic theory and real-world best practices making it a useful resource for both supply chain practitioners and students of the trade.” — Sean S. Murphy, President and CEO, Lootok “This book provides practitioners and students with an overview of good supply chain risk management practices, nicely illustrated with a diverse set of case
examples.” — Stephan M. Wagner, Ph.D., Professor and Chair of Logistics Management, Swiss Federal Institute of Technology Zurich (ETH Zurich) Recent business trends, and practices, coupled with unpredictable external events have made many firms much more vulnerable to supply chain risk and disruptions than in the past. The Handbook for Supply Chain Risk Management offers the first comprehensive collection of diverse practices executives and practitioners in most any industry can adopt to proactively manage supply chain risks and improve their overall business performance.

Key Features

• Delivers valuable insights from 30 international contributing authors
• Provides comprehensive coverage of current and future supply chain risks such as globalization, outsourcing, Lean initiatives, information security, natural disasters, political upheaval and economic recession
• Includes a wide variety of cases from various industries demonstrating effective approaches useful for benchmarking, reducing the chance and financial impact of risk, and for creating a more robust and resilient firm in the face of supply chain risk
• Supplies practitioners with a set of best practices, processes, tools, and techniques supported by illustrative examples
• WAV offers downloadable instructional materials — available from the Web Added Value™ Download Resource Center at www.jrosspub.com

Risk Management in Supply Chains

The new volume, edited by Wolfgang Kersten and Thorsten Blecker, offers the most important perspectives on supply chain risk management. The contributions written by named experts provide actual information about workable approaches for supply chain risk management, analyses of supply chain risks, identification of key risk factors for logistics outsourcing, assessment of the uncertainty of delivery. With this book readers will gain central insights how to handle approaches for supply chain risk management within their business. They will learn how to manage risks effectively to build leaner supply chains with a maintainable risk exposure for all partners in industry and services.

Risk Management and Supply Chain Vulnerability

In today's business environment, the coordination of Just-in-Time (JIT) production and transportation to guarantee timely delivery to distributed customers is one of the most challenging aspects of Just-in-Time supply chain management. Many risk factors, e.g., natural and man-made disasters make JIT supply chains more vulnerable, effective applications for analyzing and understanding appropriate Just-in-Time supply chain risk management are now attracting much attention. JIT supply chains disruptions now seem to occur more frequently and with more serious consequences, e.g., lost revenue and high recovery cost, during and after the disruptions. The objective of this research is to help supply chain managers become more capable of measuring and managing supply chain vulnerability, and therefore reduce the number of disruptions and their impact. In this research, risk management of JIT supply networks against disruption has been studied and insights in assessing the vulnerability of JIT supply chains are analyzed through a comparison of the effectiveness of different risk mitigation strategies.

SOC for Supply Chain

Marketing Logistics

This book investigates individual companies’ and industries’ supply chain risk management approaches to identify risk drivers and verify effective risk-reduction measures and business continuity plans. Typically, supply chain risk assessments focus on normative guidelines based on single best practice examples or vulnerability events, and there has been little work exploring how the concepts of supply chain risk management and resilience are related. However, since this relationship has implications for developing integrated response strategies, a clear understanding of the possible consequences is a fundamental step in building socio-economic resilience along the supply chain. Against this background, the book addresses three main topics: firstly, it
defines the conceptual and sectoral domains of supply chain risk management and resilience by examining the welfare effects of extreme weather events and other economic shocks on selected global supply chains. It then presents an in-depth analysis of the scope of public-private partnerships to tackle the risks, by empirically exploring supply chain risk effects and information management. Thirdly, it proposes a regional cooperation framework in the context of major supply chain vulnerability events such as disasters and global financial crises.

Risk Management and Supply Chain Vulnerability

Stories from Nokia, Dell, UPS, Toyota, and other companies show how firms can reduce their vulnerability to high-impact distributions, from earthquakes to strikes, from SARS to terrorism, and use them for competitive advantage. What happens when fire strikes the manufacturing plant of the sole supplier for the brake pressure valve used in every Toyota? When a hurricane shuts down production at a Unilever plant? When Dell and Apple chip manufacturers in Taiwan take weeks to recover from an earthquake? When the U.S. Pacific ports are shut down during the Christmas rush? When terrorists strike? In The Resilient Enterprise, Yossi Sheffi shows that companies' fortunes in the face of such business shocks depend more on choices made before the disruption than they do on actions taken in the midst of it—and that resilience benefits firms every day, disaster or no disaster. He shows how companies can build in flexibility throughout their supply chains, based on proven design principles and the right culture—balancing security, redundancy, and short-term profits. And he shows how investments in resilience and flexibility not only reduce risk but create a competitive advantage in the increasingly volatile marketplace. Sheffi describes the way companies can increase security—reducing the likelihood of a disruption—with layered defenses, the tracking and analysis of "near-misses," fast detection, and close collaboration with government agencies, trading partners, and even competitors. But the focus of the book is on resilience—the ability to bounce back from disruptions and disasters—by building in redundancy and flexibility. For example, standardization, modular design, and collaborative relationships with suppliers (and other stakeholders) can help create a robust supply chain. And a corporate culture of flexibility—with distributed decision making and communications at all levels—can create a resilient enterprise. Sheffi provides tools for companies to reduce the vulnerability of the supply chain they live in. And along the way he tells the stories of dozens of enterprises, large and small, including Toyota, Nokia, General Motors, Zara, Land Rover, Chiquita, Aisin Seiki, Southwest Airlines, UPS, Johnson and Johnson, Intel, Amazon.com, the U.S. Navy, and others, from across the globe. Their successes, failures, preparations, and methods provide a rich set of lessons in preparing for and managing disruptions. Additional material available at www.TheResilientEnterprise.com.

Managing Risk in Virtual Enterprise Networks: Implementing Supply Chain Principles

The success of the entire food supply chain depends on the prosperity of farms and local communities. The direct climate change risks faced by the agricultural sector are therefore also risks to businesses and food supply chains. Hence the importance of resilience at farm level, community level and business level when looking at food supply chain policy and management. Climate Change Adaptation and Food Supply Chain Management highlights the issue of adaptation to climate change in food supply chains, the management and policy implications and the importance of supply chain resilience. Attention is given to each phase of the supply chain: input production, agriculture, food processing, retailing, consumption and post-consumption. European case studies demonstrate the vulnerabilities of contemporary food supply chains, the opportunities and competitive advantages related to climate change, and the trans-disciplinary challenges related to successful climate adaptation. The authors argue for a redefinition of the way food supply chains are operated, located and coordinated and propose a novel approach enhancing climate-resilient food supply chain policy and management. This book will be of interest to students, researchers, practitioners and policymakers in the field of climate adaptation and food supply chain management and policy.
Handbook of Ripple Effects in the Supply Chain

The book presents the concepts of ICT supply chain risk management from the perspective of NIST IR 800-161. It covers how to create a verifiable audit-based control structure to ensure comprehensive security for acquired products. It explains how to establish systematic control over the supply chain and how to build auditable trust into the products and services acquired by the organization. It details a capability maturity development process that will install an increasingly competent process and an attendant set of activities and tasks within the technology acquisition process. It defines a complete and correct set of processes, activities, tasks and monitoring and reporting systems.

Supply Chain Risk Management

This book covers important issues related to managing supply chain risks from various perspectives. Supply chains today are vulnerable to disruptions with a significant impact on firms’ business and performance. The aim of supply chain risk management is to identify the potential sources of risks and implement appropriate actions in order to mitigate supply chain disruptions. This book presents a set of models, frameworks, strategies, and analyses that are essential for managing supply chain risks. As a comprehensive collection of the latest research and most recent cutting-edge developments on supply chain risk and its management, the book is structured into three main parts: 1) Supply Chain Risk Management; 2) Supply Chain Vulnerability and Disruptions Management; and 3) Toward a Resilient Supply Chain. Leading academic researchers as well as practitioners have contributed chapters, combining theoretical findings and research results with a practical and contemporary view on how companies can manage the supply chain risks and disruptions, as well as how to create a resilient supply chain. This book can serve as an essential source for students and scholars who need to deepen their knowledge of effective supply chain risk management. It can also provide an interesting and informative read for managers and practitioners who need to manage the supply chain risks and disruptions.

Creating Resilient Supply Chains

Strategic Technology Partnering and Supply Chain Risk Management

You don’t have to outrun the bear you just have to outrun the other guy. Often in business we only have to run a bit faster than our competitors to be successful. The same is true in risk management. While we would always like to anticipate and prevent risk from happening, when risk events do occur being faster, flexible, and more responsive than others can make a world of difference. Supply Chain Risk Management: An Emerging Discipline gives you the tools and expertise to do just that. While the focus of the book is on how you can react better and faster than the others, the text also helps you understand how to prevent certain risks from happening in the first place. The authors detail a risk management framework that helps you to reduce the costs associated with risk, protect your brand and reputation, ensure positive financial outcomes, and develop visible, predictable, resilient, and sustainable supply chains. They provide access to a cloud-based, end-to-end supply chain risk assessment "Heat Map" that illustrates the maturity of the chain through the various stages. It should not come as a surprise to anyone that the world is a riskier place than it was just 15 years ago. A survey used to calculate the Allianz Risk Barometer recently concluded for the first time that supply chain risk is now the top concern of global insurance providers. For most organizations this new reality requires major adjustments, some of which will not be easy. This book helps you understand the emerging discipline called supply chain risk management. It explains the relevant concepts, supplies a wide variety of tools and approaches to help your organization stay ahead of its competitors, and takes a look at future directions in risk management—all in a clear, concise presentation that gives you practical advice and
helps you develop actionable strategies.

Supply Chain Resilience

The book examines a relatively unexplored issue in supply chain risk management, which is how long companies specifically take to respond to catastrophic events of low probability but high impact. The book also looks at why such supply chain disruptions are unavoidable, and consequently, all complex supply chains are inherently at risk. The book illustrates how companies can respond to supply chain disruptions with faster responses and in shorter lead-times to reduce impact. In reducing total response time, designing solutions, and deploying a recovery plan sooner after a disruption in anticipation of such events, companies reduce the impact of disruption risk. The book also explores the basics of multiple-criteria decision-making (MCDM) and analytic hierarchy process (AHP), and how they contribute to both the quality of the financial economic decision-making process and the quality of the resulting decisions. The book illustrates through cases in the construction sector how this industry has become more complex and riskier due to the diverse nature of activities among global companies.

Risk Management of Just-in-Time Supply Chain Networks

Vulnerability to sudden supply chain disruption is one of the major threats facing companies today. The challenge for businesses today is to mitigate this risk through creating resilient supply chains. Addressing this need, Supply Chain Risk Management guides you through the whole risk management process from start to finish. Using jargon-free language, this accessible book covers the fundamentals of managing risk in supply chains. From identifying the risks to developing and implementing a risk management strategy, this essential text covers everything you need to know about this critical topic. It assesses the growing impact of risk on supply chains, how to plan for and manage disruptions and disasters, and how to mitigate their effects. It examines a whole range of risks to supply chains, from traffic congestion to major environmental disasters. Highly practical, Supply Chain Risk Management provides a range of useful tables, diagrams and tools and is interspersed with real life case study examples from leading companies, including Nokia, IBM, and BP. The 2nd edition has been completely revised with brand new case studies on the Chilean Mining Disaster and BP oil spill.

Climate Change Adaptation and Food Supply Chain 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 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
Global Logistics and Supply Chain Management

Risk is of fundamental importance in this era of the global economy. Supply chains must into account the uncertainty of demand. Moreover, the risk of uncertain demand can cut two ways: (1) there is the risk that unexpected demand will not be met on time, and the reverse problem (2) the risk that demand is over estimated and excessive inventory costs are incurred. There are other risks in unreliable vendors, delayed shipments, natural disasters, etc. In short, there are a host of strategic, tactical and operational risks to business supply chains. Supply Chain Risk: A Handbook of Assessment, Management, and Performance will focus on how to assess, evaluate, and control these various risks.

Mastering the Supply Chain

Handbook of Industrial Mixing will explain the difference and uses of a variety of mixers including gear mixers, top entry mixers, side entry mixers, bottom entry mixers, on-line mixers, and submerged mixers The Handbook discusses the trade-offs among various mixers, concentrating on which might be considered for a particular process. Handbook of Industrial Mixing explains industrial mixers in a clear concise manner, and also: * Contains a CD-ROM with video clips showing different type of mixers in action and a overview of their uses. * Gives practical insights by the top professional in the field. * Details applications in key industries. * Provides the professional with information he did receive in school

Global Supply Chain Ecosystems

Managing Supply Chain Risk and Vulnerability, a book that both practitioners and students can use to better understand and manage supply chain risk, presents topics on decision making related to supply chain risk. Leading academic researchers, as well as practitioners, have contributed chapters focusing on developing an overall understanding of risk and its relationship to supply chain performance; investigating the relationship between response time and disruption impact; assessing and prioritizing risks; and assessing supply chain resilience. Supply chain managers will find Managing Supply Chain Risk and Vulnerability a useful tool box for methods they can employ to better mitigate and manage supply chain risk. On the academic side, the book can be used to teach senior undergraduate students, as well as graduate-level students. Additionally, researchers may use the text as a reference in the area of supply chain risk and vulnerability.

Supply Chain Risk

Structural Dynamics and Resilience in Supply Chain Risk Management

Mastering the Supply Chain is an introduction to supply chain management. The book integrates theory with practice and aims to create a cross-functional mindset in students and practitioners. It provides a wide overview of relevant supply chain concepts and sets out the challenges that need to be overcome in order to find practical ways of implementing these in a real company situation. Readers are continuously asked to actively reflect on the choices they make, thus experiencing first-hand the many challenges that good and effective supply chain management presents. Mastering the Supply Chain presents a different way of learning that puts the reader at the heart of a life-like situation, so that they experience the impact of every decision they make, not just in their own 'silo' but across the business. In this way, they will learn that many supply chain concepts are relatively simple to understand, but not so easy to apply in reality. Chapter 6 helps students to pull everything they've learned together and see how the concepts play out in the real world by guiding them through an interactive demonstration of the online business simulation game The Fresh Connection (free access
is included with the book). This is a key text for students on supply chain management BScs and MScs as well as background reading for students playing the full version of The Fresh Connection Business Simulation game.

Supply Chain Risk

The impact of technological change, globalization, information and communication technologies and international governmental intervention has radically altered supply chain strategies, operations and risk profiles for most organizations. The challenge facing business and researchers alike is how best to address risk management in this new context. This collection, written by international scholars from the UK, US and Scandinavia, addresses this need by providing the first topical review of these developments and the latest research findings. The findings represent a robust cross-disciplinary view of supply chains, articulating policies and strategies for organizations. The research studies are based on empirical case studies within services and manufacturing in both large and SME organizations. This work is intended to provide the foundation for future research in this expanding area and the impact it has on managing risk within the supply chain.

Surviving Supply Chain Integration

Supply Chain Risk Management

This book offers a bridge between our current understanding of supply chain risk in practice and theory, and the monumental shifts caused by the emergence of the fourth industrial revolution. Supply chain risk and its management have experienced significant attention in scholarship and practice over the past twenty years. Our understanding of supply chain risk and its many facets, such as uncertainty and vulnerability, has expanded beyond utilizing approaches such as deploying inventory to buffer the initial effects of disruptions. Even with our increased knowledge of supply chain risk, being in the era of lean supply chain practices, digitally managed global supply chains, and closely interconnected networks, firms are exposed as ever to supply chain uncertainties that can damage, or even destroy, their ability to compete in the marketplace. The book acknowledges the criticality of big data analytics in Supply Chain Risk Management (SCRM) processes and provides appropriate tools and approaches for creating robust SCRM processes. Revisiting Supply Chain Risk presents a state-of-the-art look at SCRM through current research and philosophical thought. It is divided into six sections that highlight established themes, as well as provide new insights to developing areas of inquiry and contexts on the topic. Section 1 examines the first step in managing supply chain risk, risk assessment. The chapters in Section 2 encompass resiliency in supply chains, while Section 3 looks at relational and behavioral perspectives from varying units of analysis including consortiums, teams and decision makers. Section 4 focuses on examining supply chain risk in the contexts of sustainability and innovation. Section 5 provides insight on emerging typologies and taxonomies for classifying supply chain risk. The book concludes with Section 6, featuring illustrative case studies as real-world examples in assessing and managing supply chain risk.

Handbook for Supply Chain Risk Management

"This book deals with risk management in enterprise network formations, stressing the importance of risk management in enterprises organized in networks followed by the presentation of the researcher suggested approaches which most of the time emphasizes in a supply chain"--Provided by publisher.

Supply Chain Risk Management

Risk Management and Supply Chain Vulnerability
“Supply Chain Risk Management is an issue that many companies face and yet few companies know how to deal with it in a systematic and pragmatic manner. While avoiding and reducing supply chain risks are certainly preferable, developing ways to restore and stabilize supply chain operations rapidly after a major disruption is critical for managing global supply chains. Sodhi and Tang present important concepts, frameworks, strategies, and analyses that are essential for managing supply chain risks. Not only does this book suggest some practical ways to work with different partners to manage the risks that are present in a global supply chain, it creates a framework that would enable practitioners to engage researchers to work on this important area.”
—Thomas A. Debrowski, Executive Vice President, Worldwide Operations, Mattel, Inc.

“When a firm outsources its operations to external suppliers, the firm is vulnerable to major and rare disruptions that can occur at any link in the global supply chain. Because these disruptions rarely occur, few firms take commensurable actions to identify, assess, mitigate and respond to various types of supply chain risks. By introducing frameworks and concepts along with several case studies and a review of academic literature, Sodhi and Tang treat this important subject with practical relevance and academic rigor. This book will bring practitioners and researchers to develop effective and efficient ways to manage supply chain risks.”
—Marshall L. Fisher, UPS Professor, Professor of Operations and Information Management and Co-Director of Fishman-Davidson Center for Service and Operations Management, The Wharton School, University of Pennsylvania

“This book ties observations in practice to methodologies and research. The rich case examples motivated the approaches and methodologies used to mitigate risks, and in the course of doing so, Sodhi and Tang provided insights on existing and new research opportunities. As a result, this book is highly relevant to both practitioners and academics. Also, the book is also written with management lessons on how risks can be mitigated, and how risks can be contained once disruptions have occurred. As such, it is also a book for management to gain insights and to develop management skills.”
—Hau L. Lee, Thoma Professor of Operations, Information and Technology and Director of the Stanford Global Supply Chain Management Forum, Graduate School of Business, Stanford University

“As companies have extended their supply chains globally and as the face increasing resource issues, they face a number of new risk challenges. While there are various case studies written about supply chain risks, this book gives a comprehensive treatment of the subject with clarity. The concepts and frameworks developed by Sodhi and Tang in this book would create awareness of this important and yet not well understood subject, and strategies described in this book would stimulate practitioners to develop a holistic approach for identifying, assessing, mitigating, and responding to different types of supply chain risks.”
—Nick Wildgoose, Global Supply Chain Proposition Manager, Zurich Insurance

Strengthening Post-Hurricane Supply Chain Resilience

How the best companies prepare for and manage modern vulnerabilities—from cybersecurity risks to climate change: new tools, processes and organizations for developing corporate resilience. A catastrophic earthquake is followed by a tsunami that inundates the coastline, and around the globe manufacturing comes to a standstill. State-of-the-art passenger jets are grounded because of a malfunctioning part. A strike halts shipments through a major port. A new digital device decimates the sales of other brands and sends established firms to the brink of bankruptcy. The interconnectedness of the global economy today means that unexpected events in one corner of the globe can ripple through the world’s supply chain and affect customers everywhere. In this book, Yossi Sheffi shows why modern vulnerabilities call for innovative processes and tools for creating and embedding corporate resilience and risk management. Sheffi offers fascinating case studies that illustrate how companies have prepared for, coped with, and come out stronger following disruption—from the actions of Intel after the 2011 Japanese tsunami to the disruption in the “money supply chain” caused by the 2008 financial crisis. Sheffi, author of the widely read The Resilient Enterprise, focuses here on deep tier risks as well as corporate responsibility, cybersecurity, long-term disruptions, business continuity planning, emergency operations centers, detection, and systemic disruptions. Supply chain risk management, Sheffi shows, is a balancing act between taking on the risks involved in new products, new markets, and new
processes—all crucial for growth—and the resilience created by advanced risk management.

Applications of Contemporary Management Approaches in Supply Chains

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.

Revisiting Supply Chain Risk

Twenty-first-century supply chains have evolved into world-wide inter-connected supply-and-demand networks comprising vastly more complex operations, with profound interdependencies 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 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.

Supply Chain Risk Management

Cyber Security And Supply Chain Management: Risks, Challenges, And Solutions

This interface is being recognized by business organizations as a key priority for management, and both practitioners and academics alike have placed a greater emphasis on the need to view the supply chain as a whole as the vehicle by which competitive advantage is achieved. As well as drawing upon current research and the experience of firms worldwide, Marketing Logistics uses numerous 'mini-cases' and vignettes to illustrate the key messages in each chapter and bring the theory to life. This book is an invaluable resource for managers who seek to understand more about the way in which the supply chain should be managed to improve their organization's competitive position, as well as students undertaking degree-level courses in marketing, logistics and supply chain management.

Supply Chain Vulnerability, Mitigation Strategy and Outcomes

Internal and external forces such as globalization, global interconnectivity, automation, and other technological advancements are making today’s supply chains highly sophisticated and complex. For organizations that produce, manufacture or distribute products, there’s often a high level of interdependence and connectivity with their suppliers and their customers and business partners. Although the interconnectedness of
these organizations can be beneficial (increased revenues, expanded market opportunities, and cost reduction), the ability of organizations to meet their goals is often increasingly dependent on events, processes, and controls that are not visible and are often beyond their control - such as a supplier’s controls. That’s why the demand for transparency in supply chains is now higher than ever before, and why this is the perfect time for you to help organizations assess their supply chain risks, evaluate the system controls within their manufacturing, production, or distribution systems, and communicate their supply chain management efforts to those with whom they do business. Accountants and financial managers can also increase the credibility of the supply chain information communicated by the organization by providing an opinion on the organization’s supply chain efforts. This guide enables the accountant and financial manager to examine and report on the description of a system for manufacturing, producing and distributing goods as well as on the controls within that system using a dynamic, proactive, and agile approach. It will show how to conduct this examination in accordance with the attestation standards. The guide may also be helpful when providing readiness assessments to clients, who are not quite ready for an examination level service and need help to get there. The guide also includes excerpts from the two distinct, but complementary sets of criteria developed by the AICPA to assist practitioners with SOC for Supply Chain engagements: the description criteria and the 2017 trust services criteria.

Managing Risks in Supply Chains

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.

Managing Supply Chain Risk and Vulnerability

With her work, Irène Kilubi builds a bridge between two areas of business research, on the one hand the supply chain management, and on the other hand innovation and technology management. In the context of her work, she proposes to expand the usual instruments of supply chain risk management by strategic technology partnerships, which not only provide procurement alternatives but also the possibility to develop technological alternatives at short notice. More precisely, she advocates that the capabilities needed for STP serve as enablers for effective SCRM. Accordingly, connections between supply chain risk management and strategic technology partnering are presented and a conceptual framework is correspondingly created.

The Resilient Enterprise

Due to their complexity and diversity, understanding the structure of textile fibres is of key importance. This authoritative two-volume collection provides a comprehensive review of the structure of an extensive range of textile fibres. Volume 2 begins by reviewing natural fibres such as cellulosic, cotton, protein, wool and silk fibres. Part two considers regenerated cellulosic, protein, alginate, chitin and chitosan fibres. The final part of the book discusses inorganic fibres such as glass, carbon and ceramic fibres as well as specialist fibres such as thermally and chemically-resistant fibres, optical and hollow fibres. Chapters review how fibre structure contributes to key mechanical
properties. A companion volume reviews the structure of manufactured polymer fibres. Edited by leading authorities on the subject and with a team of international authors, the two volumes of the Handbook of textile fibre structure is an essential reference for textile technologists, fibre scientists, textile engineers and those in academia. Discusses how fibre structure contributes to key mechanical properties Reviews natural fibres such as cellulosic, cotton and silk fibres and considers various regenerated fibres Examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically-resistant and optical fibres

The Power of Resilience

Effective, sustainable supply chain networks are an integral part of any organization's success. However, in a global, rapidly evolving environment full of turbulence and uncertainty, supply chains are more vulnerable than ever. Now in its second edition, Supply Chain Risk Management is essential reading for risk managers and supply chain managers or operators who want to know about the growing impact of risk on supply chains, its management and how to mitigate its effects. Using jargon-free, accessible language, it identifies both the possible effects that disruptions can cause and how to plan for them, discussing risks varying from traffic congestion to major environmental disasters. This practical book: - defines risk and supply chain management - explains current trends affecting supply chains - offers detailed guidance on how to identify and analyse the various risks to supply chains - describes approaches to risk management and steps needed for its implementation - gives practical advice on how to create a resilient supply chain and, in the worst case, how to plan for and respond to disasters - includes up-to-date case studies such as the BP oil spill and the Chilean mining disaster


What are the cyber vulnerabilities in supply chain management? How can firms manage cyber risk and cyber security challenges in procurement, manufacturing, and logistics? Today it is clear that supply chain is often the core area of a firm's cyber security vulnerability, and its first line of defense. This book brings together several experts from both industry and academia to shine light on this problem, and advocate solutions for firms operating in this new technological landscape. Specific topics addressed in this book include: defining the world of cyber space, understanding the connection between supply chain management and cyber security, the implications of cyber security and supply chain risk management, the 'human factor' in supply chain cyber security, the executive view of cyber security, cyber security considerations in procurement, logistics, and manufacturing among other areas.

Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications

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?
**Handbook of Industrial Mixing**

Global Logistics and Supply Chain Management is a comprehensive, fully up-to-date introduction to the subject. Addressing both practical and strategic perspectives, this revised and updated fourth edition offers readers a balanced and integrated presentation of Logistics and Supply Chain Management (LSCM) concepts, practices, technologies, and applications. Contributions from experts in specific areas of LSCM provide readers with real-world insights on supply chain relationships, transport security, inventory management, supply chain designs, the challenges inherent to globalization and international trade, and more. The text examines how information, materials, products, and services flow across the public and private sectors and around the world. Detailed case studies highlight LSCM practices and strategies in a wide range of contexts, from humanitarian aid and pharmaceutical supply chains to semi-automated distribution centers and port and air cargo logistics. Examples of LSCM in global corporations such as Dell Computer and Jaguar Land Rover highlight the role of new and emerging technologies. This edition features new and expanded discussion of contemporary topics including sustainability, supply chain vulnerability, and reverse logistics, and places greater emphasis on operations management.

**Managing Supply Chain Risk**

Seminar paper from the year 2017 in the subject Business economics - Supply, Production, Logistics, grade: 1,0, Reutlingen University, language: English, abstract: Driven by a high intensity of competition, modern companies have put much effort into reducing costs in their supply chain. Two important trends on the way to achieving that goal are globalization and lean management. Both have led to complex, highly distributed supply chains and low buffer stocks. Indeed, these mechanisms brought lower costs but at the same time an increase of vulnerability and risk in modern supply chains. Unexpected disruptions in supply chains can cause a huge impact on businesses, such as high financial expenses and supply delays on the short-term, but also negative brand reputation and falling investor confidence on the long-term. This is why the implementation of the approaches "supply chain risk management (SCRM)" and "business continuity management (BCM)" has become crucial in the sphere of top-level management. Digitization is another disruptive trend within the present economic system. The volume of available data for businesses has been increasing exponentially in the last years. But at the same time most companies have failed using these data, essential in decision-making process. These unused data offer great potential: With Big Data Analytics they could turn companies' supply chain risks into a competitive advantage. This case study deals, in virtue of the quote from JFK, with the research question: "How can IT tools support companies making their supply chains resilient?" To this effect, the first chapter describes key risks in modern supply chain in order to create a general awareness of the scope of SCRM and BCM approaches. The next chapter then compares two common supply chain strategies with a focus on resilience in order to evaluate the proposed solution at the end of this case study. Thereupon Chapter 4 answers the research question of this case study by comprisi

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