

Futureproof Supply Chain Planning For Disruption Risks And Opportunities In The Lifeline Of The Global Economy

[#supply chain planning](#) [#disruption risks](#) [#futureproof supply chain](#) [#global economy](#) [#supply chain resilience](#)

This article delves into the critical need for futureproof supply chain planning, offering strategies to mitigate disruption risks and seize emerging opportunities. It highlights the indispensable role of a resilient supply chain as the very lifeline of the global economy, ensuring stability and growth even amidst unforeseen challenges.

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Futureproof Supply Chain

This book offers a concise yet comprehensive introduction to supply chain resilience, covering management, modeling and technology perspectives. Designed to accompany the textbook "Global Supply Chain and Operations Management" it addresses the topics of supply chain risks and resilience in more depth, describing the major features of supply chain resilience and explaining methodologies to mitigate supply chain disruptions and recover. Numerous practical examples and short case studies are provided to illustrate theoretical concepts. Without relying heavily on mathematical derivations, the book explains major concepts and methods to build and improve supply chain resilience and tackle supply chain disruption risks in a simple, uniform format to make it easy to understand for students and professionals with both management and engineering backgrounds. Graduate/PhD students and supply chain professionals alike will benefit from the structured, didactically oriented and concise presentation of the concepts, principles and methods of supply chain resilience management, modeling, and technological implementation.

Introduction to Supply Chain Resilience

In this book, a risk management approach starts off by discussing important issues related to managing supply chain disruption risks from various perspectives during VUCA times. It explores the essence and principles relating to managing these risks and provides the framework and multi-goal model groups for managing such unknown-unknown risks and subsequent disruptions at a global scale. The book explores and presents the latest developments across different emerging topics in supply chain risk and disruption management. These include (i) an overview of supply chain risk, and disruption management tools, techniques, and approaches, (ii) a review on uncertainty modeling for decentralized supply chain systems, (iii) supply chain deep uncertainties and risks - the 'new normal', (iv) emergent technologies for supply chain risk and disruption management, (v) supply chain resilience strategies for times of unprecedented uncertainty, (vi) the role of blockchain in developing supply chain resilience against disruptions, (vii) a qualitative study on supply chain risk management adopting blockchain

technology, (viii) assessment of risks and risk management for agriculture supply chain, (ix) resilience of agri-food supply chains: Australian developments after a decade of supply and demand shocks, (x) prioritization of risks in the pharmaceutical supply chains (xi) improving medical supply chain disruption management with the blockchain technology, and (xii) impacts of resilience practices on supply chain sustainability. The book contributes significantly to the growing body of knowledge concerning the theory and practice of managing supply chain risks and disruptions in strategic management, operations and supply chain, and sustainability literature. It presents contemporary, innovative and latest developments in applying smart management tools, techniques and approaches for managing supply chain risk and disruption and future-proofing supply chains to become agile, resilient and sustainable.

Supply Chain Risk and Disruption Management

This book offers an introduction to the ripple effect in the supply chain for a broad audience comprising recent developments. The chapters of this handbook are written by leading experts in supply chain risk management and resilience. For the first time, the chapters present in their synergy a multiple-faceted view of the ripple effect in supply chains, while considering organization, optimization, and informatics perspectives. Ripple effect describes the impact of a disruption propagation on supply chain performance, structural designs and operational parameters. The ripple effect manifests when the impact of a disruption cannot be localized and cascades along the supply chain. The resulting structural dynamics can lead to capacity and demand fulfilment downscaling and negatively influence the firm's financial and operational performance. The book delineates major features of the ripple effect and methodologies to mitigate the adverse impact of supply chain disruption propagation and to recover in case of severe disruptions. The book provides fresh insights for supply chain management and engineering regarding the following questions: - In what circumstance does one failure cause other failures? - Which structures of the supply chain are especially susceptible to the ripple effect? - What are the typical ripple effect scenarios and what are the most efficient ways to respond them? Distinctive Features: • It considers ripple effect in the supply chain from an multi-disciplinary perspective • It offers an introduction to ripple effect mitigation and recovery policies in the framework of disruption risk management in supply chains for a broad audience • It integrates management and engineering perspectives on disruption risk management in the supply chain • It presents innovative optimization and simulation models for real-life management problems • It considers examples from both industrial and service supply chains • It reveals decision-making recommendations for tackling disruption risks in the supply chain in proactive and reactive domains.

Handbook of Ripple Effects in the Supply Chain

This book covers central issues in mitigating supply chain risks from various perspectives. Today's supply chains are vulnerable to disruptions that can have 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. In this regard, the book presents a wealth of methods, strategies and analyses that are essential for mitigating supply chain risks. As a comprehensive collection of the latest research and cutting-edge developments in supply chain risk and its mitigation, the book is structured into four main parts, addressing supply chain risk strategies and developments; supply chain risk management review; supply chain sustainability and resilience; and supply chain analysis and risk management applications. The contributing authors are leading academic researchers and practitioners, who combine findings and research results with a practical and contemporary view on how companies can best manage supply chain risks and disruptions, as well as how to create resilient and sustainable supply chains. This book can be used as an essential resource for students and scholars who are interested in pursuing research or teaching courses on the rapidly growing field of supply chain management. It also offers an interesting and informative read for managers and practitioners who need to deepen their understanding of effective supply chain risk management.

Supply Chain Risk Mitigation

"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

Managing Supply Chain Risk

Navigate a continually evolving global risk landscape and react to new logistical challenges effectively with this vital guide on supply chain risk. Implementing robust supply chain strategies has never been so essential in today's everchanging world. From geo-political risks to the continued effects of global crises, Supply Chain Risk Management is an essential resource for those wanting to mitigate risk and ensure supply chain resilience. Offering crucial insight from a management perspective, this updated 4th edition offers new guidance on the effects of the Covid-19 pandemic, supply-chain bottlenecks and evolving geo-political risks. With new global case studies including disruption to the supply chain due to the Suez Canal blockage and global tensions like the US-China trade war, this edition explores a variety of real-world risks. This book details ongoing threats like climate change, corruption and technological risks while providing crucial detail on how to implement robust systems and safeguard supply chain operations. Combining theoretical and practical learning, Supply Chain Risk Management is essential for those needing to understand risk and how it can be approached.

Supply Chain Risk Management

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.

Managing Supply Chain Risk and Vulnerability

Managing Supply Chain Disruptions categorizes and review the substantive research contributions relating to managing supply chain disruptions. With a primary emphasis on formulating directions for future research, the authors focus on significant research and practical findings. Managing Supply Chain Disruptions reviews the general area of supply chain disruptions and examine classifications of disruptions which can be used to provide insights into the disruption management process. It reviews the literature in the emerging field of disruption risk management which attempts to identify specific risks associated with supply chain disruptions. This is followed by a review of conceptual/empirical research with a focus on providing general insights into how one or more organizations have managed the risk associated with disruptions. Given that designing robust supply chain networks are a key feature of managing disruption risk, the authors examine the relevant research in this domain. A detailed analysis of prior research targeted at managing specific risks (e.g., product, supply, operations/process, and transportation risks) is presented, and finally, directions for future research are discussed.

Managing Supply Chain Disruptions

This book provides insights from research and practice in how organizations were able to sustain resilience in their global supply chains during the COVID-19 pandemic and to advance the understanding of supply chain risk management. The chapters highlight the lessons learned, insist on new models for resilience, suggest improved supply chain risk methodologies and bridge the gap between research and practice. It helps readers acquire greater knowledge, strategic approaches, new methods, and practical tools for ensuring global supply chain resilience.

Supply Chain Resilience

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?

Structural Dynamics and Resilience in Supply Chain Risk Management

Every global crisis highlights the strategic importance of industrial and non-profit supply chains for society. In terms of coping with unforeseen and unpredictable events, supply chain resilience enables the parties and networks involved to stay successful during and after the disruption. Furthermore, a resilient supply chain contributes to the sustainable competitive advantage of the entire value chain. Written by scholars and practitioners alike, this book not only puts forward a new framework for resilience in supply chain management, but also presents best practice cases from various areas and industries. As a particular highlight, it includes a Delphi study that gathers state-of-the-art insights from supply chain leaders. In addition to practical approaches, methods and tools, the book also offers food for thought on the future of supply chain resilience. As such, it offers a valuable resource for current and future managers in the public and private sector, as well as researchers and students engaged in this field.

Supply Chain Resilience

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.

Supply Chain Resilience

Future-proof your firm's supply chains with a renewed focus on resilience In *Strong Supply Chains Through Resilient Operations: Five Principles for Leaders to Win in a Volatile World*, a team of dedicated, veteran operations strategists delivers a practical and hands-on discussion of how to future-proof your company's supply chains through a relentless focus on resilience. In the book, you'll discover how to shift your firm's emphasis from "low-cost" to "low volatility" as you protect your company against the supply and demand shocks associated pandemics, wars, labor disputes, and trade conflicts. You'll also learn about: Real-world examples of companies realizing long-term competitive advantage by implementing the shifts advocated by the authors Why seeking to build mutually beneficial, long-term relationships with dependable suppliers is preferable to always choosing the cheapest option How a renewed focus on diversity and new ways of working can create resilient operations teams that pass on value to your customers An effective and essential discussion of one of the most prominent challenges facing contemporary companies around the world, *Strong Supply Chains Through Resilient Operations* is a need-to-read book for managers, executives, business leaders, entrepreneurs, operations and supply chain professionals, and anyone else with a stake in the smooth operation of their firm.

Strong Supply Chains Through Resilient Operations

Creates a managerial compass for entering into the LIVING (Live, Intelligent, Velocity, Interactive, Networked, and Good) era of supply chain management and defines the imperative for creating Velocity and Visibility as the focal point for exploiting new digital, mobile, and cloud-based technologies Written by well-known researchers in the field, this book addresses the changes that have occurred and are still unfolding at various organizations that are involved in building real-time supply chains. The authors draw on their experiences with multiple companies, along with references to the natural evolution of ecosystems throughout to help identify the "new rules of supply chain management." The LIVING principles associated with the rapid digitization and technology changes occurring in the global economy are discussed, along with the push to become more sustainable and responsive to customer needs. "Handfield and Linton reveal the "secret ingredient" to leveraging the power of a well managed supply chain....will revolutionize the way companies approach supply chain management." Frank Crespo, Vice President, Global Supply Network Division (CPO/Logistics/IoT Analytics), Caterpillar Inc. "The LIVING supply chain is a wake up call to any enterprise that depends on suppliers and contractors. Be fast, be nimble and make supply chain transparency the nucleus of your operations or become endangered." Paul Massih, Vice President, BP PSCM " ...a fascinating journey through the future of supply chain management ... a must read for every supplychain professional." Yossi Sheffi, Professor, MIT Center for Transportation and Logistics " ... a great "living" reading on how to bring supply chains to a powerful living state. The idea of Live-Interactive-Velocity–Intelligent–Networked-Good is the foundation of how supply chains can be agile, adaptive and aligned. ...of value to every supply chain executive and practitioner." Hau Lee, Professor, Stanford University " Successful businesses are those that support the success of their customers. This book captures the essence of our volatile, uncertain world and the opportunities that exist for the commercially astute, organizationally integrated business. More important, it offers insight to the recipe for 21st century operations and the management of complex supply ecosystems." Tim Cummins, CEO, International Association of Commercial and Contract Management " A LIVING supply chain requires a living company. The authors make a great case for how Flex is creating a living company to thrive in the living supply chain." Tom Choi, Harold E. Fear on Eminent Scholar Chair of Purchasing Management, Arizona State University, Executive Director, CAPS Research " To survive we need to have an adaptive supply chain and capability to both optimize and adapt simultaneously. This book begins to describe the ability to shift from functional silos to E2E Frictionless flow with the maturity to make E2E tradeoff decisions as a key enabler for success." Wayne Rothman, Vice President, Enterprise Supply Chain Planning, Johnson & Johnson "A fantastic read and excellent stories from Dr. Handfield and Tom." Joanne E. Wright, Vice President, IBM Supply Chain ROBERT HANDFIELD, PhD, is Bank of America University Distinguished Professor of Supply

Chain Management and Director of the Supply Chain Resource Cooperative at North Carolina State University. The author of four books and over 150 journal articles, Dr. Handfield received his PhD in Opera

The LIVING Supply Chain

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 in Supply Chains

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 are interested in pursuing research or teaching courses in the rapidly growing area of supply chain risk management. It can also provide an interesting and informative read for managers and practitioners who need to deepen their knowledge of effective supply chain risk management.

Supply Chain Risk Management

The third edition of this textbook comprehensively discusses global supply chain and operations management (SCOM), combining value creation networks and interacting processes. It focuses on operational roles within networks and presents the quantitative and organizational methods needed to plan and control the material, information, and financial flows in supply chains. Each chapter begins with an introductory case study, while numerous examples from various industries and services help to illustrate the key concepts. The book explains how to design operations and supply networks and how to incorporate suppliers and customers. It examines how to balance supply and demand, a core aspect of tactical planning, before turning to the allocation of resources to meet customer needs. In addition, the book presents state-of-the-art research reflecting the lessons learned from the COVID-19 pandemic, and emerging, fast-paced developments in the digitalization of supply chain and operations management. Providing readers with a working knowledge of global supply chain and operations management, with a focus on bridging the gap between theory and practice, this textbook can be used in core, specialized, and advanced classes alike. It is intended for a broad range of students and professionals in supply chain and operations management.

Global Supply Chain and Operations Management

This book focuses on latest cutting-edge research to address the interaction between risk and innovation management in supply chains. It is predicted that future operations and supply chain management will be more digital. The collection aims on investigating how digital technologies have helped or can help organisations and supply chains being more resilient. The work is a compilation of selected papers from the 2021 International Conference on Operations and Supply Chain Management: Supply Chain Risk & Innovation Management In "The Next Normal" (ICOSCM 2021). The contents make

valuable contributions to academic researchers, practitioners in the industry, and policy makers of respective authorities. Those who lack digital capabilities will find the collection useful in improving their capabilities.

Supply Chain Risk and Innovation Management in “The Next Normal”

One of the most critical issues facing supply chain managers in today's globalized and highly uncertain business environments is how to deal proactively with disruptions that might affect the complicated supply networks characterizing modern enterprises. *Supply Chain Disruptions: Theory and Practice of Managing Risk* presents a state-of-the-art perspective on this particular issue. *Supply Chain Disruptions: Theory and Practice of Managing Risk* demonstrates that effective management of supply disruptions necessitates both strategic and tactical measures – the former involving optimal design of supply networks; the latter involving inventory, finance and demand management. It shows that managers ought to use all available levers at their disposal throughout the supply network – like sourcing and pricing strategies, providing financial subsidies, encouraging information sharing and incentive alignment between supply chain partners – in order to tackle supply disruptions. The editors combine up-to-date academic research with the latest operational risk management practices used in industry to demonstrate how theoreticians and practitioners can learn from each other. As well as providing a wealth of knowledge for students and professors who are interested in pursuing research or teaching courses in the rapidly growing area of supply chain risk management, *Supply Chain Disruptions: Theory and Practice of Managing Risk* also acts as a ready reference for practitioners who are interested in understanding the theoretical underpinnings of effective supply disruption management techniques.

Supply Chain Disruptions

The lifeblood of any business is the timely delivery of products and services. In the best possible world, if one plans accordingly, disruptions never occur. However, in the real world, disruptions do and will occur and the best business plans are those that anticipate and prepare for this inevitability, especially when dealing with international suppliers. Go beyond theory -- learn how to... Define and anticipate risk Build a resilient supply chain Mobilize in the face of impending disaster Make a full and quick recovery Supply Chain Risk Management: Minimizing Disruptions in Global Sourcing provides a detailed road map for the efficient delivery of products and services, while taking into account the high probability of costly delays and stoppages. With candid input from suppliers, automotive and retail companies, and professional consultants, this work delivers a pragmatic approach to managing supply chain risk in an era of globalization. With Proper Prior Planning Potential Disasters Become Mere Inconveniences All executives and managers share a common goal of reducing costs, streamlining processes and increasing profits. Within these pages, you will discover a winning game plan for efficiently navigating the complexities of supply chain risk in today's global marketplace.

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.

Managing the Future Supply Chain

Global supply chain decision-makers and practitioners are about to face brutally tough new challenges. They will be called upon to manage supply and demand in a world marked by demographic and economic shifts that will turn their supply and demand markets upside down. They will have to secure crucial supplies in an era when resources are severely constrained. Now, three pioneering supply chain leaders fully illuminate these game-changing challenges, offering a complete decision framework and practical tools, insights, and guidance for systematically mitigating new risks and building long-term supply chain-based competitive advantage. *Global Macro Trends and Their Impact on Supply Chain Management* is the first book to focus squarely on emerging societal, technological, geopolitical, and environmental macro trends that will powerfully impact every supply chain. Authors Chad W. Autry, Thomas J. Goldsby, and John E. Bell walk you through assessing the impacts of population growth, migration, urbanization; socioeconomic change, global connectivity, environmental issues, and geopolitics. They review new challenges associated with increased global demand, growing scarcity, transportation congestion, aging infrastructure, and emerging supply-demand imbalances. Next, they provide comprehensive mitigation strategies based on logistics, resource recovery, resource protection, demand and supply shaping, and other techniques. This book will be an indispensable resource for all supply chain, logistics, sourcing, and operations management executives, managers, and professionals; for operations research professionals and graduate students; and for others working in these fields in industry, government, and the military.

Revisiting Supply Chain Risk

Seminar paper from the year 2013 in the subject Business economics - Trade and Distribution, grade: B, The University of Liverpool, language: English, abstract: In the past few years, we have witnessed several developments in each and every area of life. The development in the technology and introduction of new way outs have influenced all the areas of business and the supply chain of an organization as well. The markets are now not limited to the boundary of a single country but they are establishing themselves on a global level. Due to globalization, organizations have planned to redefine their supply chain management policies due to a huge incline in the demand and supply of products and services globally. Along with the profits to getting global, there are many risks faced by the supply chain of an organization. These risks can be man-made risks or natural calamities. Interruption in delivery of raw material, fluctuating prices in the market and rapid increase in the demand of the customer are also considered as supply chain risks. To operate the business effectively by delivering the product or service to the customers on right time and right place is the main goal of every business (Mentzer et al., 2001). To achieve this goal, a business should implement some strategies to manage the risk that are involved in the supply chain. There are many approaches suggested by the researches in order to manage and mitigate the supply chain risks. This paper is an attempt to gather knowledge about the approaches used in managing the supply chain risks. These approaches are discussed in this paper and a critical analysis of them is also conducted. In the end of this paper, some recommendations about the approaches is also given that may help in the future research of the risk management strategies.

Achieving Supply Chain Integration

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 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.

Supply Chain Management. A discussion about managing supply chain risks

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 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.

Digital Supply Networks: Transform Your Supply Chain and Gain Competitive Advantage with Disruptive Technology and Reimagined Processes

This book provides a holistic and practical approach to managing supply chains risks and presents a new framework model for sustainable optimization of risk management. This framework includes supportive tools for risk mapping and strategic decision-making. Managers can apply tailored versions of this framework for the management process of their respective sector. The authors provide case studies in industries such as automotive, aviation, airport, and healthcare.

Supply Chain Risk Management

This book offers an introduction to the ripple effect in the supply chain for a broad audience comprising recent developments. The chapters of this handbook are written by leading experts in supply chain risk management and resilience. For the first time, the chapters present in their synergy a multiple-faceted view of the ripple effect in supply chains, while considering organization, optimization, and informatics perspectives. Ripple effect describes the impact of a disruption propagation on supply chain performance, structural designs and operational parameters. The ripple effect manifests when the impact of a disruption cannot be localized and cascades along the supply chain. The resulting structural dynamics can lead to capacity and demand fulfillment downscaling and negatively influence the firm's financial and operational performance. The book delineates major features of the ripple effect and methodologies to mitigate the adverse impact of supply chain disruption propagation and to recover in case of severe disruptions. The book provides fresh insights for supply chain management and engineering regarding the following questions: - In what circumstance does one failure cause other failures? - Which structures of the supply chain are especially susceptible to the ripple effect? - What are the typical ripple effect scenarios and what are the most efficient ways to respond them? Distinctive Features: • It considers ripple effect in the supply chain from an multi-disciplinary perspective • It offers an introduction to

ripple effect mitigation and recovery policies in the framework of disruption risk management in supply chains for a broad audience • It integrates management and engineering perspectives on disruption risk management in the supply chain • It presents innovative optimization and simulation models for real-life management problems • It considers examples from both industrial and service supply chains • It reveals decision-making recommendations for tackling disruption risks in the supply chain in proactive and reactive domains.

Supply Chain Risk Management

This book discusses important issues related to managing supply chain disruption risks from various perspectives. It explores the essence and principles relating to managing these risks and provides the framework and multi-goal model groups for managing such risks. The book also discusses research development of managing supply chain disruptive risks, supply chain risk conduction and loss assessment methods of supply chain disruptive events. It also includes the consideration of supply chain coordinating models in the cases of demand and supply disruption risks. It also deals on the subject of managing models of supply chain disruption risks by looking at manufacturers and responding decision methods oriented towards demand in disruption and coordination. It also summarizes the relevant findings and provides future research questions and orientations. The book will contribute significantly to the growing body of knowledge concerning the theory of managing supply chains.

Handbook of Ripple Effects in the Supply Chain

Master's Thesis from the year 2010 in the subject Business economics - Business Management, Corporate Governance, grade: 1,3, Maastricht University, language: English, abstract: Purpose - Catastrophic supply chain risks can have severe effects on companies' supply chains. Still, previous supply chain risk management research has predominantly focused on operational risks. The purpose of this study is to explore the construct of managerial risk perception and the assessment stage of catastrophic supply chain risks. Design/methodology/approach - A risky decision making model for catastrophic supply chain risks was applied in an explorative multiple case study approach. Interviews served as the main source for information. Findings - The degree of supply chain integration was found to be a prime determinant of the potential damage caused by disruptions due to catastrophic supply chain risks. The frequency of catastrophic supply chain events seems to be influenced to some degree by the number of suppliers. It is suggested that managerial perception of catastrophic supply chain risks is formed by the degree of potential damage and past exposure to catastrophic supply chain events. Several barriers to the assessment of catastrophic supply chain risks, such as missing top management priority, low supply chain risk management maturity and lack of obvious return were identified. A combination of "softer" supply chain risk assessment methods, expert opinions and simulation techniques have been identified to be useful to assess catastrophic supply chain risks. Originality/ value - This explorative research provides first insights into the construct of managerial risk perception in the context of catastrophic supply chain risks. Further it identifies useful risk assessment tools and techniques for catastrophic supply chain risks, based on both supply chain risk management research and catastrophe research. Key words Supply chain risk management, risk assessment, catastrophe

Managing Risk of Supply Chain Disruptions

Master's Thesis from the year 2010 in the subject Business economics - Business Management, Corporate Governance, grade: 1,3, Maastricht University, language: English, abstract: Purpose - Catastrophic supply chain risks can have severe effects on companies' supply chains. Still, previous supply chain risk management research has predominantly focused on operational risks. The purpose of this study is to explore the construct of managerial risk perception and the assessment stage of catastrophic supply chain risks. Design/methodology/approach - A risky decision making model for catastrophic supply chain risks was applied in an explorative multiple case study approach. Interviews served as the main source for information. Findings - The degree of supply chain integration was found to be a prime determinant of the potential damage caused by disruptions due to catastrophic supply chain risks. The frequency of catastrophic supply chain events seems to be influenced to some degree by the number of suppliers. It is suggested that managerial perception of catastrophic supply chain risks is formed by the degree of potential damage and past exposure to catastrophic supply chain events. Several barriers to the assessment of catastrophic supply chain risks, such as missing top management priority, low supply chain risk management maturity and lack of obvious

return were identified. A combination of “softer” supply chain risk assessment methods, expert opinions and simulation techniques have been identified to be useful to assess catastrophic supply chain risks. Originality/ value - This explorative research provides first insights into the construct of managerial risk perception in the context of catastrophic supply chain risks. Further it identifies useful risk assessment tools and techniques for catastrophic supply chain risks, based on both supply chain risk management research and catastrophe research. Key words Supply chain risk management, risk assessment, catastrophic risks, low-probability high-consequence risks, risk perception, managerial risk perception.

Managerial Perception and Assessment of Catastrophic Supply Chain Risks

Creating and Maintaining Resilient Supply Chains Will your supply chain survive the twists and turns of the global economy? Can it deliver mission-critical supplies and services in the face of disaster or other business interruption? A resilient supply chain can do those things and more. In *Creating and Maintaining Resilient Supply Chains*, global expert Andrew Hiles applies the principles of risk and business continuity to enable a reliable flow of materials and information that is a “win” for everyone involved. From over 30 years of experience working with companies like yours, the author of *Creating and Maintaining Resilient Supply Chains* helps you to: Understand the criticality of procurement and supply chain management to the health of your organization. Relate the time-tested principles of good business continuity planning to constructing a reliable supply chain. Apply risk management principles to evaluate vendors and create effective contracts. Create the specifications that will result in a good tender or bid. Anticipate contract issues when you are dealing with other legal systems, including International Commercial Law, Anglo Saxon Law, Civil Code, Sharia Code, and European Law. In one short book, Hiles distills the knowledge of a lifetime to prepare you to handle risks, pitfalls, and potential ambiguities. As a result, you will know how to carefully plan and negotiate supply chain relationships that benefit all the organizations involved.

Managerial perception and assessment of catastrophic supply chain risks

This book deals with stochastic combinatorial optimization problems in supply chain disruption management, with a particular focus on management of disrupted flows in customer-driven supply chains. The problems are modeled using a scenario based stochastic mixed integer programming to address risk-neutral, risk-averse and mean-risk decision-making in the presence of supply chain disruption risks. The book focuses on innovative, computationally efficient portfolio approaches to supply chain disruption management, e.g., selection of primary and recovery supply portfolios, demand portfolios, capacity portfolios, etc. Numerous computational examples throughout the book, modeled in part on real-world supply chain disruption management problems, illustrate the material presented and provide managerial insights. In the computational examples, the proposed mathematical programming models are solved using an advanced algebraic modeling language such as AMPL and CPLEX, GUROBI and XPRESS solvers. The knowledge and tools provided in the book allow the reader to model and solve supply chain disruption management problems using commercially available software for mixed integer programming. Using the end-of chapter problems and exercises, the monograph can also be used as a textbook for an advanced course in supply chain risk management. After an introductory chapter, the book is then divided into five main parts. Part I addresses selection of a supply portfolio; Part II considers integrated selection of supply portfolio and scheduling; Part III looks at integrated, equitably efficient selection of supply portfolio and scheduling; Part IV examines integrated selection of primary and recovery supply (and demand) portfolios and scheduling; and Part V addresses disruption management of information flows in supply chains.

Creating and Maintaining Resilient Supply Chains

Optimize supply chains throughout their entire lifecycle: creation, growth, maturity, and decline! Reflecting up-to-the-minute "in-the-trenches" experience and pioneering research, this book illuminates the complex transformational processes associated with managing complex supply chains that incorporate multiple products and services within ever-changing networks. Marc J. Schniederjans and Stephen B. Legrand walk you through: starting, creating, and building new supply chains; then, realigning those supply chains for growth, adjusting to dynamic change, readjusting networks, building flexibility, and managing new supply chain risks. Next, they offer practical, realistic guidance for realigning "mature" supply chains, innovating, controlling costs; and smoothly managing declining demand. Throughout, they offer invaluable insights and tools for negotiating, measuring performance, anticipating change, improving agility and flexibility, meeting commitments to social responsibility and the law; and much

more. Based on the authors' up-to-the minute supply chain experience and pioneering academic research, *Reinventing the Supply Chain Life Cycle* contains many real-world examples and interviews with executives from some of the world's top organizations. It integrates content related to key certifications and offers valuable material that can be incorporated directly into existing supply chain practices, procedures, and policies.

Supply Chain Disruption Management Using Stochastic Mixed Integer Programming

This new edition textbook continues down the path that the first edition, winner of the 2013 IISE/Joint Publishers Book-of-the-Year Award, successfully carved out. The textbook targets engineering students and emphasizes the use of operations research models and solution methods important in the design, control, operation, and management of global supply chains. Completely updated, *Supply Chain Engineering: Models and Applications, Second Edition* stresses quantitative models and methods, highlights global supplier selection and vendor risk management techniques, and discusses the use of multiple criteria decision-making models in supply chain management. The new edition includes chapters on health and humanitarian supply chains, including disaster management and logistics modeling, and on warehousing and distribution. Disruptions to global supply chains due to the COVID-19 pandemic are discussed throughout the book. Industry and government strategies to make the global supply chains resilient are also presented. Thirty four case studies have been included to illustrate various supply chain models and methods. Exercises are included at the end of each chapter, and a solutions manual and PowerPoint slides are available for qualified textbook adoptions. The new edition continues to target upper-level undergraduate and graduate students in engineering, as well as MBA students in operations management, logistics, and supply chain management programs that emphasize quantitative analysis. It is also useful as a reference for technical professionals and researchers in industrial engineering, supply chain management, procurement, logistics and health administration.

Reinventing the Supply Chain Life Cycle

BREAKTHROUGH BEST PRACTICES IN GLOBAL SUPPLY CHAIN MANAGEMENT FROM WORLD-CLASS PRACTITIONERS For all supply chain decision-makers, professionals, and students
Improve financial and operational performance
Manage risk and ensure continuity
Drive value through deeper integration
Optimize logistics cost and customer responsiveness
Hire and develop world-class talent
This book brings together advanced supply chain practices that yield significant, enduring business advantage. It reflects extensive collaboration between industry pioneers and The University of Tennessee Global Supply Chain Institute (GSCI), a leading source of best practice knowledge for global supply chain management. Building on GSCI's deep industry partnerships, this book's techniques take you far beyond the past decade's advances. You'll find new approaches to managing risk, integration, talent, distribution, purchasing, logistics, and more—all extensively vetted by leading executives. The authors fully explain each technique; its rationale, advantages, and challenges; and how pioneering organizations have implemented it. The world will look radically different in five years. If you want your supply chain to deliver competitive advantage tomorrow, you need to prepare today. This book shows you what to do, and how to get there. In recent years, practically everyone's supply chain has become more sophisticated. To gain competitive advantage from your supply chain in the future, you'll have to do even more. The *Supply Chain Game Changers* identifies powerful new ways to drive value in complex global supply chains, shows how pioneers are succeeding with these innovations, and helps you make them work in your environment. The authors first discuss ten trends impacting global supply chains today, and preview emerging drivers of change through 2025. Reflecting these changes, they share new best practices for managing global supply chains, evolving supply networks, and accounting for economics, politics, infrastructure, and competence. Next, the authors drill down to offer detailed guidance on several crucial aspects of supply chain management. You'll discover new ways to identify, prioritize, and mitigate risk; balance cost and customer responsiveness through advanced distribution centers; integrate purchasing and logistics more effectively; and attract and develop world-class talent. The book concludes with the authors' Top Ten actions for creating tomorrow's world-class supplychain, practical tools for assessing where you stand, and detailed guidance for creating your new Action Plan.

Supply Chain Engineering

This textbook, now in its fourth edition, serves as a comprehensive guide to learning various aspects of risk, encompassing supply chain management, artificial intelligence, and sustainability. It demonstrates

a wide range of operations research models that have been successfully applied to enterprise supply chain risk management. Each chapter of the book can function as a standalone module focusing on a specific topic, offering dedicated examples, definitions, and discussion notes. The publication of this book comes at a crucial time when the world is facing increasing challenges from various forms of risk. Events such as Covid-19, the energy crisis, wars, and terrorism in the 21st century have all disrupted supply chains, thus highlighting the critical importance of enterprise risk management. Additional risks, such as financial and technological bubbles, along with concerns surrounding rampant artificial intelligence, contribute to a climate that demands enhanced risk management within organizations.

The Supply Chain Game Changers

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.

Enterprise Risk Management Models

One of the most critical issues facing supply chain managers in today's globalized and highly uncertain business environments is how to deal proactively with disruptions that might affect the complicated supply networks characterizing modern enterprises. Supply Chain Disruptions: Theory and Practice of Managing Risk presents a state-of-the-art perspective on this particular issue. Supply Chain Disruptions: Theory and Practice of Managing Risk demonstrates that effective management of supply disruptions necessitates both strategic and tactical measures – the former involving optimal design of supply networks; the latter involving inventory, finance and demand management. It shows that managers ought to use all available levers at their disposal throughout the supply network – like sourcing and pricing strategies, providing financial subsidies, encouraging information sharing and incentive alignment between supply chain partners – in order to tackle supply disruptions. The editors combine up-to-date academic research with the latest operational risk management practices used in industry to demonstrate how theoreticians and practitioners can learn from each other. As well as providing a wealth of knowledge for students and professors who are interested in pursuing research or teaching courses in the rapidly growing area of supply chain risk management, Supply Chain Disruptions: Theory and Practice of Managing Risk also acts as a ready reference for practitioners who are interested in understanding the theoretical underpinnings of effective supply disruption management techniques.

Supply Chain Risk Management

Supply Chain Disruptions

North Carolina in the Connected Age

At a time when North Carolina's population is exploding and its economy is shifting profoundly, one of the state's leading economists applies the tools of his trade to chronicle these changes and to inform North Carolinians in easy-to-understand terms what to expect in the future. Today we are living in a technologically connected age that has completely transformed the North Carolina economy, Walden explains. Once driven by tobacco, textiles, and furniture, the North Carolina economy now thrives on technology, pharmaceuticals, finance, food processing, and the manufacture of vehicle parts. While the state as a whole has benefited from these dramatic transformations, some population groups and regions have not experienced consistent economic growth. Walden identifies education as the key factor; a skilled, college-educated work force, he argues, is now a region's most prized commodity. Walden traces how the forces of the late twentieth and early twenty-first centuries have remade the North Carolina economy, impacted people and regions, and led to the most substantive public policy

debates in decades. Written in a lively style and including original research and insights, North Carolina in the Connected Age is essential reading for anyone wanting to understand how the state arrived where it is today and what its future might hold.

A Way Forward

In the last half century, North Carolina and the South have experienced rapid economic growth. Much of the best analysis of this progress came from two North Carolina-based research organizations: the Southern Growth Policies Board and MDC (originally a project of the North Carolina Fund). Their 1986 reports are two of the best assessments of the achievements and limitations of the so-called Sunbelt boom. On November 17, 2011, the Global Research Institute at the University of North Carolina at Chapel Hill and the Institute for Emerging Issues at North Carolina State University co-hosted a public discussion to build on these classic reports and to offer fresh analyses of the current challenges facing the region. A Way Forward, which issued from this effort, features more than thirty original essays containing recommendations and strategies for building and sustaining a globally competitive South.

Regional Research Frontiers - Vol. 1

This volume focuses on frontiers in regional research and identifies trends and future developments in the areas of innovation, regional growth and migration. It also addresses topics such as mobility, regional forecasting, and regional policy, and includes expert contributions on disasters, resilience, and sustainability. Building on recent methodological and modelling advances, as well as on extensive policy-analysis experience, top international regional scientists identify and evaluate emerging new conceptual and methodological trends and directions in regional research. This book will appeal to a wide readership, from regional scientists and economists to geographers, quantitatively oriented regional planners and other related disciplines. It offers a source of relevant information for academic researchers and policy analysts in government, and is also suitable for advanced teaching courses on regional and spatial science, economics and political science.

Geographies of Globalized Education Privatization

This book explores the complex and various forms that privatization of education takes on a global scale at different ages of schooling. Through the spread of neoliberal policies in education both in the global North and the global South, the book suggests that this process is leading to new forms of schooling and socio-spatial dynamics linked to the creation of increasingly competitive school markets. The book highlights some of the main issues that such competition generates by focusing on the acceleration of the segregative processes on one hand but also on the alternatives that are emerging regarding this global context on the other hand. It considers processes of domination, hegemony, but also exclusion and segregation, eventually exploring contradictions inherent to societies. It presents innovative empirical and conceptual research by international scholars from the fields of social geography, sociology, history and demography in the United States, Lebanon, France, Afghanistan and Chile, thereby transcending disciplinary boundaries. Developed in under or unexplored contexts, the book broadens the reflection to social representations, individual and collective strategies, adaptation, innovation and also resistances.

The Research Triangle

Over the past three decades, the economy of North Carolina's Research Triangle—defined by the cities of Raleigh, Durham, and Chapel Hill—has been transformed from one dependent on agriculture and textiles to one driven by knowledge-based jobs in technology, telecommunications, and pharmaceuticals. Now home to roughly 1.7 million people, the Research Triangle has attracted an influx of new residents from across the country and around the world while continuing to win praise for its high quality of life. At the region's center is the 7,000-acre Research Triangle Park, one of the nation's largest and most prominent research and development campuses. Founded in 1959 through a partnership of local governments, universities, and business leaders, Research Triangle Park has catalyzed the region's rapid growth and hastened its coalescence into a single metropolitan area. The Research Triangle: From Tobacco Road to Global Prominence describes the history, current challenges, and future prospects of this fascinating metropolitan area. Focusing on the personalities and perspectives of key actors in the development of the region, William M. Rohe traces the emergence of the Research Triangle Park and its role in the region's economic transformation. He also addresses some of the downsides of development, illustrating the strains that explosive population growth has placed on the region's

school systems, natural resources, transportation infrastructure, and social cohesion. As Rohe shows, the Research Triangle is not a city in the traditional sense but a sprawling conurbation whose rapid, low-density growth and attendant problems are indicative of metropolitan life in much of America today. Although the Triangle's short-term prospects are bright, Rohe warns that troubling issues loom—the region is expected to add nearly a million residents over the next two decades—and will need to be addressed through improvements in governmental cooperation, regional planning, and civic leadership. Finally, the author outlines key lessons that other metropolitan areas can learn from the Research Triangle's dramatic rise to prominence.

Presidential Swing States

In this new and updated volume, the contributors examine the phenomena of presidential swing states in the 2016 presidential election. They explore the reasons why some states and, now counties are the focus of candidate attention, are capable of voting for either of the major candidates, and are decisive in determining who wins the presidency.

North Carolina beyond the Connected Age

For years, North Carolina has been one of the nation's fastest-growing states, bringing tremendous change to the state's people, industries, jobs, places, environment, and government. Much of this change resulted from the information and technology revolution, which connected the state more fully to the country and the world. But we are now moving beyond the connected age, argues Michael L. Walden, to a new era of living, production, and work, and North Carolina faces not only unanswered questions about the past but also new challenges and opportunities visible on the horizon. What will these new transformations mean for the state's people, places, and prosperity? In this book, Walden lays out these looming economic issues and offers predictions of future trends as well as multiple policy options for taxation, infrastructure, and environmental issues. While the future cannot be perfectly predicted, Walden's expert analysis is mandatory reading for policy makers, business leaders, and everyday people seeking to prepare for upcoming changes in North Carolina's economy.

North Carolina Beyond the Connected Age

"North Carolina has been one of the nation's fastest growing states in the last fifty years, and during that time tremendous changes have come to the state's people, industries, jobs, places, environment, and government. Much of this change resulted from the information and technology revolution, which connected the state to the country and the world. We are now moving beyond the connected age--to a new era of living, production, and work--with both new challenges and new opportunities. What will these new transformations mean for North Carolina's people, places, and prosperity? How will the state's population change? What industries will drive the state's economy at mid-century? Will there be enough jobs for workers, and what kinds of jobs? Where and how will we live, and how will we move? How will educational institutions need to adapt and transform to meet the needs of the new economy and workplace? What fuels will power us, and can we find ways to protect the environment?"--

New Voyages to Carolina

New Voyages to Carolina offers a bold new approach for understanding and telling North Carolina's history. Recognizing the need for such a fresh approach and reflecting a generation of recent scholarship, eighteen distinguished authors have sculpted a broad, inclusive narrative of the state's evolution over more than four centuries. The volume provides new lenses and provocative possibilities for reimagining the state's past. Transcending traditional markers of wars and elections, the contributors map out a new chronology encompassing geological realities; the unappreciated presence of Indians, blacks, and women; religious and cultural influences; and abiding preferences for industrial development within the limits of "progressive" politics. While challenging traditional story lines, the authors frame a candid tale of the state's development. Contributors: Dorothea V. Ames, East Carolina University Karl E. Campbell, Appalachian State University James C. Cobb, University of Georgia Peter A. Coclanis, University of North Carolina at Chapel Hill Stephen Feeley, McDaniel College Jerry Gershenhorn, North Carolina Central University Glenda Elizabeth Gilmore, Yale University Patrick Huber, Missouri University of Science and Technology Charles F. Irons, Elon University David Moore, Warren Wilson College Michael Leroy Oberg, State University of New York, College at Geneseo Stanley R. Riggs, East Carolina University Richard D. Starnes, Western Carolina University Carole Watterson Troxler, Elon University Bradford J. Wood, Eastern Kentucky University Karin Zipf, East Carolina University

Carolina del Norte: Geographies of Latinization in the South

Table of Contents, Volume 51, Number 2: Special Issue Carolina del Norte: Geographies of Latinization in the South Guest Editors: Altha J. Cravey and Gabriela Valdivia Carolina del Norte: An Introduction Altha J. Cravey and Gabriela Valdivia part i: notes from the field We Play Too: Latina Integration through Soccer in the "New South" Paul Cuadros part ii: papers Latino Migration and Neoliberalism in the U.S. South: Notes Toward a Rural Cosmopolitanism Jeff Popke Mexican Families in North Carolina: The Socio-historical Contexts of Exit and Settlement Krista M. Perreira Borders, Border-Crossing, and Political Art in North Carolina Gabriela Valdivia, Joseph Palis, and Matthew Reilly The Emerging Geographies of a Latina/o Studies Program Maria DeGuzman Commentary: New Directions in the Nuevo South Jamie Winders part iii: 2010 aag study of the american south specialty group's plenary paper Introduction Jonathan Leib Re-Placing Southern Geographies: The Role of Latino Migration in Transforming the South, Its Identities, and Its Study Jamie Winders Robert Yarbrough and Thomas Chapman, Discussants

Southern Economic Journal

This publication summarises the main findings of a series of high-level expert workshops, organised with support by the European Commission, to deepen the understanding how OECD countries can move towards a broad based form of innovation policy for regions and cities. Weaknesses in technology and knowledge diffusion are weighing on productivity growth and innovation in OECD countries, particularly in firms that are distant from the technological frontier (global or national). This in turn weakens their capacity to meet future challenges and undermines inclusive growth.

The North Carolina Historical Review

Southeastern Geographer is published by UNC Press for the Southeastern Division of the Association of American Geographers (www.sedaag.org). The quarterly journal publishes the academic work of geographers and other social and physical scientists, and features peer-reviewed articles and essays that reflect sound scholarship and contain significant contributions to geographical understanding, with a special interest in work that focuses on the southeastern United States.

Carolina Comments

Shows how to turn globalization into opportunity--to grow new businesses, create new jobs, revitalize regions, and develop international cities of the future.

Broad-based Innovation Policy for All Regions and Cities

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Southeastern Geographer

While nations have always competed for territory, mineral riches, water, and other physical assets, they compete most vigorously today for technology-based innovations and the value that flows from them. Much of this value is based on creating scientific knowledge and transforming it into new products and services for the market. This process of innovation is complex and interdisciplinary. Sometimes it draws on the genius of individuals, but even then it requires sustained collective effort, often underpinned by significant national investments. Capturing the value of these investments to spur domestic economic growth and employment is a challenge in a world where the outputs of innovation disseminate rapidly. Those equipped to understand, apply, and profit from new knowledge and technical advances are increasingly able to capture the long-term economic benefits of growth and employment. In response to this new, more distributed innovation paradigm, the National Academies Board on Science, Technology, and Economic Policy (STEP) convened leading academics, business leaders, and senior policymakers from Germany and the United States to examine the strengths and challenges of their innovation systems. More specifically, they met to compare their respective approaches to innovation, to learn from their counterparts about best practices and shared challenges, and to identify cooperative opportunities. The symposium was held in Berlin and organized jointly by the German Institute for Economic Research (DIW) and the U.S. National Academies with support of the German Federal Ministry for Education and Research (BMBF) and the American Embassy in Berlin. Both U.S. and German participants described common challenges on a wide variety of issues ranging from energy security and climate change to low-emissions transportation, early-stage financing, and workforce training. While recognizing their differences in approach to these challenges, participants on both sides drew out valuable lessons from each other's policies and practices. Participants were also aware of the need to adapt to a new global environment where many countries have focused new policy measures and new resources to support innovative firms and promising industries. Meeting Global Challenges: U.S.-German Innovation Policy reviews the participants meeting and sets goals and recommendations for future policy.

World Class

This report summarizes a workshop—"Strengthening Science-Based Decision-Making: Implementing the Stockholm Convention on Persistent Organic Pollutants held June 7-10, 2004, in Beijing, China. The presentations and discussions summarized here describe the types of scientific information necessary to make informed decisions to eliminate the production and use of Persistent Organic Pollutants (POPs) banned under the Stockholm Convention, sources of information; scientifically informed strategies for eliminating POPs, elements of good scientific advice, such as transparency, peer review, and disclosure of conflicts of interest; and information dealing with POPs that decision makers need from the scientific community, including next steps to make such science available and ensure its use on a continuing basis.

Encyclopedia of Information Science and Technology

Responding to the challenges of fostering regional growth and employment in an increasingly competitive global economy, many U.S. states and regions have developed programs to attract and grow companies as well as attract the talent and resources necessary to develop regional innovation clusters. These state and regionally based initiatives have a broad range of goals and increasingly include larger resources commitments, often with a sectoral focus and often in partnership with foundations and universities. Recent studies, however, have pointed out that many of these efforts lack the scale and the steady commitment needed for success. This has prompted new initiatives to coordinate and concentrate investments from a variety of federal agencies to develop research parks, business incubators, and other strategies to encourage entrepreneurs and high-tech development in the nation's regions. Understanding the nature of innovation clusters and public policies associated with successful cluster development is therefore of current relevance. Clustering for 21st Century Prosperity identifies best practices with regard to goals, structures, instruments, modes of operation, synergies across private and public programs, funding mechanisms and levels, and evaluation efforts. The committee, under the Board on Science, Technology, and Economic Policy (STEP) is reviewing selected state and regional efforts to capitalize on federal and state investments in areas of critical national needs. This review includes both efforts to strengthen existing industries as well as specific technology focus areas such as nanotechnology, stem cells, and advanced energy in order to better understand program goals, challenges, and accomplishments. As part of this study, the committee is

convening a series of public workshops and symposia involving responsible local, state, and federal officials and other stakeholders. Drawing from discussions at these symposia, fact-finding meetings, and commissioned analyses of existing state and regional programs and technology focus areas, the committee will subsequently produce a final report with findings and recommendations focused on lessons, issues, and opportunities for complementary U.S. policies created by these state and regional initiatives.

Meeting Global Challenges

"Selection of original papers presented at the international conference 'Latin America's Prospects for Upgrading in Global Value Chains,' held on 14-15 March 2012, at Colegio de Mexico, Mexico City"--Title page vers

Enhancing Productivity Growth in the Information Age

This book is a major reassessment of work in the field of critical gerontology, providing a comprehensive survey of issues by a team of contributors drawn from Europe and North America. The book focuses on the variety of ways in which age and ageing are socially constructed, and the extent to which growing old is being transformed through processes associated with globalisation. The collection offers a range of alternative views and visions about the nature of social ageing, making a major contribution to theory-building within the discipline of gerontology. The different sections of the book give an overview of the key issues and concerns underlying the development of critical gerontology. These include: first, the impact of globalisation and of multinational organizations and agencies on the lives of older people; second, the factors contributing to the "social construction" of later life; and third, issues associated with diversity and inequality in old age, arising through the effects of cumulative advantage and disadvantage over the life course. These different themes are analysed using a variety of theoretical perspectives drawn from sociology, social policy, political science, and social anthropology. "Aging, Globalization and Inequality" brings together key contributors to critical perspectives on aging and is unique in the range of themes and concerns covered in a single volume. The study moves forward an important area of debate in studies of aging, and thus provides the basis for a new type of critical gerontology relevant to the twenty-first century.

Clustering for 21st Century Prosperity

Brazil, the largest of the Latin American nations, is fast becoming a potent international economic player as well as a regional power. This English translation of an acclaimed Brazilian anthology provides critical overviews of Brazilian life, history, and culture and insight into Brazil's development over the past century. The distinguished essayists, most of whom are Brazilian, provide expert perspectives on the social, economic, and cultural challenges that face Brazil as it seeks future directions in the age of globalization. All of the contributors connect past, present, and future Brazil. Their analyses converge on the observation that although Brazil has undergone radical changes during the past one hundred years, trenchant legacies of social and economic inequality remain to be addressed in the new century. A foreword by Jerry Davila highlights the volume's contributions for a new, English-reading audience. The contributors are Luiz Carlos Bresser Pereira, Cristovam Buarque, Aspasia Camargo, Gilberto Dupas, Celso Furtado, Afranio Garcia, Celso Lafer, Jose Seixas Lourenco, Renato Ortiz, Moacir Palmeira, Paulo Sergio Pinheiro, Ignacy Sachs, Paulo Singer, Herve Thery, and Jorge Wilhelm.

Global Value Chains and World Trade

For many years to come this volume. . . is surely going to be the ultimate reference work on international business. . . thanks to Dunning and Lundan, have at their disposal, a wealth of relevant data, as well as theoretical and empirical analyses, which will enable them to assess the capabilities, contributions and challenges posed by the multinational enterprises to the global economy. Seev Hirsch, International Business Review Multinational Enterprises and the Global Economy has become a classic in international business. . . Yet , the book s second edition is even better than the first, in part because of Professor Dunning s wise decision to choose Dr Lundan as his co-author and to draw upon her deep knowledge of various strands of research on business government relations and the societal effects of firm behaviour. . . In addition to being a remarkably useful reference book, Multinational Enterprises and the Global Economy is the first book any IB doctoral student should read to understand the significance and richness of IB scholarship as it has developed over the past 50 years. Alain Verbeke, Journal of International Business Studies The second edition of Multinational

Enterprises and the Global Economy provides unparalleled coverage not only of the literature relevant to IB research but also of the evolution of IB in the world economy. Dunning and Lundan offer powerful insights into the societal effects of MNEs and the role of business government relations in the IB context. *Journal of International Business Studies* This wonderful book offers the definitive synthesis of the modern literature on the economic aspects of international business. It is encyclopedic yet full of incisive insights. It is a creative masterpiece which unbundles the DNA of the multinational enterprise and shows how it is the cornerstone of the field of international business. Alan M. Rugman, University of Reading, UK The rise of the multinational enterprise, and the consequent globalisation of the world economy, was arguably the single most important phenomenon of the second half of the twentieth century. This magisterial book, written by two leading authorities, examines this phenomenon in depth. It explains how foreign investment by multinationals diffused advanced technologies and novel management methods, driving productivity growth in Europe, Asia and North America; however, economic inequalities were reinforced as rich countries attracted more foreign investment than poor ones. This new edition of a classic work is not only an authoritative guide to contemporary multinational business, but a major historical resource for the future. Mark Casson, University of Reading, UK This thoroughly updated and revised edition of a widely acclaimed, classic text will be required reading for academics, policymakers and advanced students of international business worldwide. Employing a distinctive and unified framework, this book draws together research across a range of academic fields to offer a synthesis of the determinants of MNE activity, and its effects on the economic and social well-being of developed and developing countries. Unique to the new edition is its focus on the institutional underpinnings of the resources and capabilities of MNEs, and the role of MNE activity in transmitting and facilitating institutional change. Since the initial publication of this book more than a decade ago, the economic, managerial and social implications of globalisation and technological advancement have become even more varied and prominent. Accompanying these developments, there has been a rise in scholarly interest in interdisciplinary research addressing the important challenges of an ever-changing physical and human environment. Drawing on articles and books from international business and economics, as well as economic geography, political economy and strategic management, a systematic overview of the developments in scholarly thinking is prese

Aging, Globalization and Inequality

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. *Communities in Action: Pathways to Health Equity* seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Brazil

The chapters in this volume explore specific issues related to community college international education; they document outstanding programs and discuss strategies for strengthening internationalization efforts. Combined, these chapters confirm that it is critical to understand the variables that make internationalization an essential component of community colleges as well as the obstacles that prevent institutionalization from occurring. What emerges is a blueprint for our current generation of leaders to help develop new programs, establish leadership training, and secure institutional support. In doing so, this volume sets the stage for future efforts to make international education an institutionalized and central component of the community college.

Multinational Enterprises and the Global Economy

Over the next 25 years developing countries will move to center stage in the global economy. *Global Economic Prospects 2007* analyzes the opportunities - and stresses - this will create. While rich and

poor countries alike stand to benefit, the integration process will make more acute stresses already apparent today - in income inequality, in labor markets, and in the environment. Over the next 25 years, rapid technological progress, burgeoning trade in goods and services, and integration of financial markets create the opportunity for faster long-term growth. However, some regions, notably Africa, are at risk of being left behind. The coming globalization will also see intensified stresses on the "global commons." Addressing global warming, preserving marine fisheries, and containing infectious diseases will require effective multilateral collaboration to ensure that economic growth and poverty reduction proceed without causing irreparable harm to future generations."

Communities in Action

In his exploration of the interaction between religion and worldwide social and cultural change, the author examines the major theories of global change and discusses the ways in which such change impinges on contemporary religious practice, meaning and influence. Beyer explores some of the key issues in understanding the shape of religion today, including religion as culture and as social system, pure and applied religion, privatized and publicly influential religion, and liberal versus conservative religions. He goes on to apply these issues to five contemporary illustrative cases: the American Christian Right; Liberation Theology movements in Latin America; the Islamic Revolution in Iran; Zionists in Israel; and religious

Black Women, Globalization, and Economic Justice

This open access book asks why and how some of the developing countries have "emerged" under a set of similar global conditions, what led individual countries to choose the particular paths that led to their "emergence," and what challenges confront them. If we are to understand the nature of major risks and uncertainties in the world, we must look squarely at the political and economic dynamics of emerging states, such as China, India, Brazil, Russia, and ASEAN countries. Their rapid economic development has changed the distribution of wealth and power in the world. Yet many of them have middle income status. To global governance issues, they tend to adopt approaches that differ from those of advanced industrialized democracies. At home, rapid economic growth and social changes put pressure on their institutions to change. This volume traces the historical trajectories of two major emerging states, China and India, and two city states, Hong Kong and Singapore. It also analyzes cross-country data to find the general patterns of economic development and sociopolitical change in relation to globalization and to the middle income trap.

International Reform Efforts and Challenges in Community Colleges

This book is a collection of plenary sessions papers and selected invited panel papers presented in the 26th International Conference of Agricultural Economists held at Gold Coast, Australia, from 12th to 18th August 2006. Beginning with the presidential address by Prabhu Pingali and the Elmhirst lecture by Hans Binswanger dealing with global issues of agricultural growth, economic development, and empowerment of the rural poor, leading agricultural economists address such emerging and critical issues as the economics of natural disasters, international trade and marketing, food safety and health, and transformation of unfavorable poor areas, among other issues.

Global Economic Prospects 2007

The Emergence of the Global Political Economy challenges the assumption that the international political economy is a recent phenomenon. Instead this volume asserts that the current global political economy began to take shape around 1500 and that some of today's key processes were already perceivable several hundred years ago. The book explains the interdependence between long-term economic growth, global political leadership and global war and how this interdependence has evolved over the last 500 years, and includes discussion of: *the ascendance of Western Europe and the significance of the 1490s *the military superiority thesis *sequences of leadership and of challenge to the global political economy *the importance of commodities from sugar and cloth to slaves and bullion *the Anglo-American rivalry until the First World War.

Religion and Globalization

In this compelling narrative of capitalist development and revolutionary response, Jessica M. Kim reexamines the rise of Los Angeles from a small town to a global city against the backdrop of the

U.S.-Mexico borderlands, Gilded Age economics, and American empire. It is a far-reaching transnational history, chronicling how Los Angeles boosters transformed the borderlands through urban and imperial capitalism at the end of the nineteenth century and how the Mexican Revolution redefined those same capitalist networks into the twentieth. Kim draws on archives in the United States and Mexico to argue that financial networks emerging from Los Angeles drove economic transformations in the borderlands, reshaped social relations across wide swaths of territory, and deployed racial hierarchies to advance investment projects across the border. However, the Mexican Revolution, with its implicit critique of imperialism, disrupted the networks of investment and exploitation that had structured the borderlands for sixty years, and reconfigured transnational systems of infrastructure and trade. Kim provides the first history to connect Los Angeles's urban expansionism with more continental and global currents, and what results is a rich account of real and imagined geographies of city, race, and empire.

Emerging States and Economies

CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences. The database provides abstracts of journal articles and citations to book reviews drawn from over 1,800+ serials publications, and also provides abstracts of books, book chapters, dissertations, and conference papers.

Contributions of Agricultural Economics to Critical Policy Issues

Written in a detailed and fascinating manner, this book is ideal for general readers interested in the English language.

The Emergence of the Global Political Economy

The arrival of several hundred Guatemalan-born workers in a Morganton, North Carolina, poultry plant sets the stage for this dramatic story of human struggle in an age of globalization. When laborers' concerns about safety and fairness spark a strike and, ultimately, a unionizing campaign at Case Farms, the resulting decade-long standoff pits a recalcitrant New South employer against an unlikely coalition of antagonists. Mayan refugees from war-torn Guatemala, Mexican workers, and a diverse group of local allies join forces with the Laborers union. The ensuing clash becomes a testing ground for "new labor" workplace and legal strategies. In the process, the nation's fastest-growing immigrant region encounters a new struggle for social justice. Using scores of interviews, Leon Fink gives voice to a remarkably resilient people. He shows that, paradoxically, what sustains these global travelers are the ties of local community. Whether one is finding a job, going to church, joining a soccer team, or building a union, kin and linguistic connections to the place of one's birth prove crucial in negotiating today's global marketplace. A story set at the intersection of globalization and community, two words not often linked, *The Maya of Morganton* addresses fundamental questions about the changing face of labor in the United States.

Imperial Metropolis

Sociological Abstracts