

Haresh Gurnani · Anuj Mehrotra  
Saibal Ray *Editors*

# Supply Chain Disruptions: Theory and Practice of Managing Risk

# Supply Chain Disruptions Theory And Practice Of Managing Risk

**Tadeusz Sawik**



## **Supply Chain Disruptions Theory And Practice Of Managing Risk:**

**Supply Chain Disruptions** Haresh Gurnani, Anuj Mehrotra, Saibal Ray, 2011-09-28 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 Haresh Gurnani, Anuj Mehrotra, Saibal Ray, 2011-10-01 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 and Disruption Management Sanjoy Kumar Paul, Renu Agarwal, Ruhul Amin Sarker, Towfique

Rahman,2023-06-14 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

**Managing Risk of Supply Chain Disruptions** Tong Shu,Shou Chen,Kin Keung Lai,Xizheng Zhang,Shouyang Wang,2014-05-16 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

Supply Chain Disruption Management Tadeusz Sawik,2020-05-29 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 riskneutral risk averse and mean risk decision making in the presence of supply chain disruption risks The book focuses on integrated disruption

mitigation and recovery decision making and innovative computationally efficient multi portfolio approach 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 realworld supply chain disruption management problems illustrate the material presented and provide managerial insights Many propositions formulated in the book lead to a deep understanding of the properties of developed stochastic mixed integer programs and optimal solutions 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 six 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 production and inventory scheduling Part V deals with selection of resilient supply portfolio in multitier supply chain networks and Part VI addresses selection of cybersecurity safeguards portfolio for disruption management of information flows in supply chains

*Structural Dynamics and Resilience in Supply Chain Risk Management* Dmitry Ivanov, 2017-11-07 This book offers an introduction to structural dynamics ripple effect and resilience in supply chain disruption risk management for larger audiences In the management section without relying heavily on mathematical derivations the book offers state of the art concepts and methods to tackle supply chain disruption risks and designing resilient supply chains in a simple predictable format to make it easy to understand for students and professionals with both management and engineering background In the technical section the book constitutes structural dynamics control methods for supply chain management Real life problems are modelled and solved with the help of mathematical programming discrete event simulation optimal control theory and fuzzy logic The book derives practical recommendations for management decision making with disruption risk in the following areas How to estimate the impact of possible disruptions on performance in the pro active stage How to generate efficient and effective stabilization and recovery policies When does one failure trigger an adjacent set of failures Which supply chain structures are particular sensitive to ripple effect How to measure the disruption risks in the supply chain

Strategies for Supply Chain Risk Management Yi Li, Ju'e Guo, Kin Keung Lai, 2023-06-16 Examining the negative consequences that arise from supply chain risks this book systematically explores firms responses to these risks in different situations In particular it focuses on sourcing strategies of firms under supply chain risks and the different mitigation tools they use such as supplier development and multisourcing Supply chains have expanded extensively because many firms try to take advantage of outsourcing of their raw materials and

critical components Though firms can reap significant benefits due to the widespread use of outsourcing they have to deal with increasing supply chain risks In general supply chain risks are various and may be originated from natural disasters labor strikes fires and so on These risk incidents can cause serious damage to firms profit performance The analysis and insights from this book can be utilized by firms to alleviate the impact of supply chain risks in the sourcing process It will also be of interest to researchers and students studying supply chain management

**Supply Chain Risk Management** Yacob Khojasteh,2017-07-24 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

**Handbook of Ripple Effects in the Supply Chain** Dmitry Ivanov,Alexandre Dolgui,Boris Sokolov,2025-05-09 This book highlights the major features of the ripple effect and introduces methodologies to mitigate its adverse impact on supply chain resilience and to recover from severe disruptions It brings fresh insights into the fields of supply chain management and engineering addressing three fundamental questions In what circumstance does one failure trigger others Which supply chain structures are especially susceptible to the ripple effect What are the typical ripple effect scenarios and the most efficient ways to respond to them In this new edition recent advancements are incorporated particularly in areas such as supply chain viability digital supply chains artificial intelligence and epidemiological models Furthermore it introduces new methodologies with a particular emphasis on data driven and AI based approaches This comprehensive book provides innovative optimization and simulation models to address real world challenges With examples from industrial and service sectors it offers actionable decision making recommendations for tackling disruption risks in the supply chain proactively and reactively As such the book is a comprehensive source for diverse readerships

*Global Supply Chain and Operations Management* Dmitry Ivanov,Alexander Tsipoulanis,Jörn Schönberger,2025-10-24 The fourth edition of this textbook offers a structured introduction to global supply chain and operations management SCOM combining value

creation networks and operational processes It explains quantitative and organizational methods for planning and control of 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 collaborate with suppliers and customers It shows 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 covers some advanced topics in SCOM such as supply chain resilience sustainability Industry 4 0 artificial intelligence and digital twins 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

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