

Rob Smith

Global Supply Chain Performance and Risk Optimization

**The Value of Real Options Flexibility
Demonstrated in the Global Automotive Industry**



Global Supply Chain Performance And Risk Optimization

JS Bruner



Global Supply Chain Performance And Risk Optimization:

Global Supply Chain Performance and Risk Optimization Rob Smith, 2012-12-06 This doctoral dissertation deals with a very timely and important topic in the fields of international operations finance and risk management namely the evaluation of the Real Option value of operational and managerial flexibility within a global supply chain network The author who has worked for more than nine years on international supply chain strategy and design as an executive in world class automotive and high tech companies in the U S and in Europe uses a large scale data set from an existing global supply chain operated by a tier one supplier in the global automotive industry in examining and comparing the following supply chain strategies single sourcing dual sourcing compliance with local content rules centers of excellence and Real Options with flexibility in sourcing production and distribution logistics The major finding of this empirical study is the identification of a Real Options strategy that results in a positive payback in less than a year and dominates all of the other supply chain strategies The three main contributions of this work are i for the first time a comprehensive and real data set is utilized to quantify and demonstrate the financial performance of various supply chain design strategies ii a new model of real price changes i e

Handbook of Supply Chain Management James B. Ayers, 2006-04-24 Supply chain management SCM disciplines have produced a flood of new concepts methods and tools if applied wisely they will improve results A resource that weeds out and consolidates this new information will lower the business risk of implementing change Interpreting models and viewpoints from many fields into a supply chain context *Risk Management* Michael Frenkel, Ulrich Hommel, Markus Rudolf, 2004-11-23 Dealing with all aspects of risk management that have undergone significant innovation in recent years this book aims at being a reference work in its field Different to other books on the topic it addresses the challenges and opportunities facing the different risk management types in banks insurance companies and the corporate sector Due to the rising volatility in the financial markets as well as political and operational risks affecting the business sector in general capital adequacy rules are equally important for non financial companies For the banking sector the book emphasizes the modifications implied by the Basel II proposal The volume has been written for academics as well as practitioners in particular finance specialists It is unique in bringing together such a wide array of experts and correspondingly offers a complete coverage of recent developments in risk management

Global Supply Chain and Operations Management Dmitry Ivanov, Alexander Tsipoulanidis, Jörn Schönberger, 2021-11-19 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

Retail Supply Chain Management James B. Ayers, Mary Ann Odegaard, 2007-11-26 A consequence of business specialization is the implementation of weak processes that cross departmental and corporate boundaries Supply chain management SCM addresses this issue by requiring a process view that reaches across these confines Due to globalization and a competitive environment those within the retail supply chains are particular

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

Stochastic Programming in Supply Chain Risk Management Tadeusz Sawik, 2024-06-24 This book offers a novel multi portfolio approach and stochastic programming formulations for modeling and solving contemporary supply chain risk management problems The focus of the book is on supply chain resilience under propagated disruptions supply chain viability under severe crises and supply chain cybersecurity under direct and indirect cyber risks The content is illustrated with numerous computational examples some of which are modeled on real world supply chains subject to severe multi regional or global crises such as pandemics In the computational examples the proposed stochastic programming models are solved using an advanced algebraic modeling language AMPL and GUROBI solver The book seamlessly continues the journey begun in the author's previously published book Supply Chain Disruption Management Using Stochastic Mixed Integer Programming It equips readers with the knowledge tools and managerial insights needed to effectively model and address modern supply chain risk

management challenges As such the book is designed for practitioners and researchers who are interested in supply chain risk management Master s and Ph D students in disciplines like supply chain management operations research industrial engineering applied mathematics and computer science will also find the book a valuable resource *INTERNATIONAL TRADE DYNAMICS Advanced Strategies for Modern Markets* DR ABHISHEK SHARMA,DR LEENA SHARMA, In an increasingly interconnected world the landscape of international trade is evolving at an unprecedented pace The complexities and nuances of global markets demand not only a deep understanding of traditional trade principles but also the agility to adapt to modern dynamics International Trade Dynamics Advanced Strategies for Modern Markets is crafted to bridge the gap between foundational trade theories and the advanced strategies necessary for navigating today s volatile economic environment This book aims to provide a comprehensive exploration of the multifaceted world of international trade From the economic principles that underpin trade policies to the latest trends in global supply chain management we delve into the critical factors shaping international commerce Our goal is to equip readers with the knowledge and tools needed to formulate and implement effective trade strategies in a rapidly changing global market We begin by revisiting the core concepts of international trade setting the stage for a deeper dive into contemporary issues and advanced strategies The chapters that follow cover a wide range of topics including trade policy formulation economic integration digital trade sustainability and risk management Each chapter is designed to offer a blend of theoretical insights and practical applications supported by real world case studies and empirical data The emphasis on advanced strategies reflects the need for businesses and policymakers to think beyond traditional boundaries In today s markets success hinges on the ability to leverage technological advancements adapt to shifting geopolitical landscapes and respond to the demands for sustainable and ethical trade practices This book provides a roadmap for navigating these challenges offering strategic guidance for stakeholders at all levels

Issues in Industrial Relations and Management: 2013 Edition ,2013-05-01 Issues in Industrial Relations and Management 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Management Science The editors have built Issues in Industrial Relations and Management 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Management Science in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Industrial Relations and Management 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Optimizing Supply Chain in Industry 4.0 - Utilizing AI and Big Data Analytics Jubin Thomas,2024-05-15 Optimizing Supply Chain in Industry 4 0 Utilizing AI and Big Data Analytics the transformative impact of

advanced technologies on supply chain management How AI and big data analytics revolutionize operations enabling predictive decision making enhanced efficiency and real time adaptability Covering key concepts applications and strategies it actionable insights for leveraging these technologies to build resilient sustainable and agile supply chains in the era of Industry 4 0 Designed for professionals researchers and students it bridges theory with practical implementation for optimizing supply chain processes in a rapidly evolving digital landscape

Risk, Reliability and Resilience in Operations Management Sachin Mangla,Yigit Kazancoglu,Gunjan Soni,Surya Prakash,2025-04-14 Risk Reliability and Resilience in Operations Management examines measurement tools and techniques and their real world application The book provides a resource that is needed to help solve complex business operations and global supply chains and their important requirements for the accurate measurement of risk reliability and resilience to inform decisions and reduce risk In addition the book discusses advancements in technology and data analytics with final sections covering the COVID 19 pandemic and how it has put greater emphasis on the importance of risk reliability and resilience in business operations This book provides a timely overview of measurement techniques and their application in operations management offering insights into future directions in this field Provides a comprehensive overview on the measurement of risk reliability and resilience in operations management Delves into the practical application of risk reliability and resilience management techniques in real world scenarios providing case studies and examples that demonstrate how businesses can effectively measure and manage these factors to make informed decisions Explores emerging trends technological advancements and potential developments that may impact risk measurement reliability and resilience

Supply Chain Engineering A. Ravi Ravindran,Donald Warsing Jr.,2016-04-19 Winner of 2013 IIE Joint Publishers Book of the Year AwardEmphasizing a quantitative approach Supply Chain Engineering Models and Applications provides state of the art mathematical models concepts and solution methods important in the design control operation and management of global supply chains The text provides an understanding of

Quantitative Financial Risk Management Desheng Dash Wu,2011-06-25 The bulk of this volume deals with the four main aspects of risk management market risk credit risk risk management in macro economy as well as within companies It presents a number of approaches and case studies directed at applying risk management to diverse business environments Included are traditional market and credit risk management models such as the Black Scholes Option Pricing Model the Vasicek Model Factor models CAPM models GARCH models KMV models and credit scoring models

Uncertainty in Facility Location Problems H. A. Eiselt,Vladimir Marianov,2023-09-20 This book deals with an often neglected feature of location problems namely uncertainty by combining two related fields location theory and optimization Written by leading researchers and practitioners in these fields each chapter examines one aspect of the location process in different contexts such as supply chains location decisions under congestion disaster management design of resilient facilities uncertainty in the health sector and facility location in the retail sector under uncertainty The book also addresses methodological aspects

such as chance constrained approaches heuristic algorithms scenario approaches and simulation As such it provides decision makers with essential methods tools and approaches to help them deal with these uncertainties It is mainly intended for graduate students in the fields of operations research and logistics as well as professionals in logistics and supply chain management

Optimizing Firm Performance Christian Faden,2013-07-31 Academic research has identified several operational drivers in manufacturing companies that have an effect on either the physical production of goods or its distribution working capital requirements manufacturing performance supply chain performance and supply chain risk Despite the fact that these four operational drivers have been operationalized in empirical studies and theoretical discourses no one has yet conducted a holistic study of how they interrelate and what specific contribution they make to overall firm performance The key question addressed by this study is therefore how companies should align these operational drivers of excellence to achieve superior firm performance The results are based on a universe of 274 top class manufacturing companies based in Germany Switzerland or Austria and more than 15 interviews with top executives By consequence a trade off exists Strong firm performance requires a significant level of supply chain risk at the expense of working capital performance Companies that accept a reasonable level of supply chain risk while maintaining high manufacturing and supply chain performance outperform the lowest performing reference group by 14% in terms of sales sales growth profitability and market share firm performance

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

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

Fundamentals of Supply Chain Management John T.

Mentzer,2004-05-05 This book is an insightful well balanced stimulating SCM Strategy book that clearly tells managers consultants as well as educators that the SCM concept is not a fad but a must strategy to gain competitive advantage in today s dynamic global market place There are three major strengths First it is an unprecedented interdisciplinary SCM strategy book that explains how companies obtain maintain and even enhance competitive advantages based upon a well laid SCM strategy Second it provides readers a unique well balanced framework for SCM strategy formulation Third it is a valuable contribution in the area of SCM in that it does a good job in explaining such a complicated SCM strategy to readers in such a simple manner Soonhong Hong Min University of Oklahoma Author of the bestselling text Supply Chain Management John T Mentzer s companion book Fundamentals of Supply Chain Management Twelve Drivers of Competitive Advantage has been developed as a supplemental text for any course dealing with strategy and supply chains Written in an entertaining accessible style Mentzer identifies twelve drivers of competitive advantage as clear strategic points managers can use in their companies Research from more than 400 books articles and papers as well as interviews with over fifty executives in major global companies inform these twelve drivers The roles of all of the traditional business functions marketing sales logistics information systems finance customer services and management in supply chain management are also addressed Complete with cases and real world examples from corporations around the world the book s exemplars will help students and practicing managers to more effectively understand implement and manage supply chains successfully

Applications of Management Science Kenneth D. Lawrence,Dinesh R. Pai,2020-09-11 Volume 20 of Applications of Management Science focuses on the application of management science methodologies data envelopment analysis and multi criteria decision

making Proceedings of the International Conference on Computer Science, Electronics and Industrial Engineering (CSEI 2023) Marcelo V. Garcia, Carlos Gordón-Gallegos, Asier Salazar-Ramírez, Carlos Nuñez, 2024-12-22 The Proceedings of the International Conference on Computer Science Electronics and Industrial Engineering CSEI 2023 focuses on Innovations in Industrial Engineering and Robotics in Industry Bridging the Gap Between Theory and Practical Application This collection presents cutting edge research and developments in the rapidly evolving fields of industrial engineering and robotics Featuring peer reviewed papers from leading researchers and practitioners this volume explores the latest advancements in automation smart manufacturing and Industry 4 0 technologies It offers valuable insights into how these innovations are reshaping industrial processes and driving efficiency across various sectors The book addresses key challenges in implementing theoretical concepts in real world industrial settings providing practical solutions and case studies Topics covered include advanced robotics systems industrial IoT applications sustainable manufacturing practices and emerging trends in industrial automation This volume is an essential resource for academics engineers and industry professionals seeking to stay at the forefront of industrial engineering and robotics It serves as a bridge between academic research and industrial application making it invaluable for both theoretical understanding and practical implementation in the field

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