

# Construction Supply Chain Economics

Competing on Supply Chain Quality Managing the Global Supply Chain Construction Supply Chain Economics Clarifying the Concept of Supply Chain Economics Construction Supply Chain Economics Supply Chain Transformation Supply Chain Design and Management for Emerging Markets The Economic Foundations of Supply Chain Contracting A Theory of Supply Chains Global Supply Chain and Operations Management Supply Chain Network Economics The Market-driven Supply Chain Food Supply Chain Management Risk Management in Supply Chains Sustainable Consumption, Production and Supply Chain Management Ports, Cities, and Global Supply Chains Global Supply Chains: Evaluating Regions on an EPIC Framework – Economy, Politics, Infrastructure, and Competence Circular Economy Supply Chains Economics and Price Risks in International Pellet Supply Chains Non-Profit-Maximizing Behavior in Supply Chain Management Anna Nagurney Philip B. Schary Kerry London Jennifer Hotz Kerry London Amiya K. Chakravarty Wojciech Piotrowicz Harish Krishnan Carlos Daganzo Dmitry Ivanov Anna Nagurney Robert Penn Burrows Madeleine Pullman Mohammad Heydari Paul Nieuwenhuis James Jixian Wang Mandyam Srinivasan Lydia Bals Rita Ehrig Torsten Gully

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this book lays the foundations for quality modeling and analysis in the context of supply chains through a synthesis of the economics operations management as well as operations research management science literature on quality the reality of today s supply chain networks given their global reach from sourcing locations to points of demand is further challenged by such issues as the growth in outsourcing as well as the information asymmetry associated with what producers know about the quality of their products and what consumers know although much of the related literature has focused on the micro aspects of supply chain networks considering two or three decision makers it is essential to capture the scale of supply chain networks in a holistic manner that occurs in practice in order to be able to evaluate and analyze the competition and the impacts on supply chain quality in a quantifiable manner this volume provides an overview of the fundamental methodologies utilized in this book including optimization theory game theory variational inequality theory and projected dynamical systems theory it then focuses on major issues in today s supply chains

with respect to quality beginning with information asymmetry followed by product differentiation and branding the outsourcing of production from components to final products to quality in freight service provision the book is filled with numerous real life examples in order to emphasize the generality and pragmatism of the models and tools the novelty of the framework lies in a network economics perspective through which the authors identify the underlying network structure of the various supply chains coupled with the behavior of the decision makers ranging from suppliers and manufacturers to freight service providers what is meant by quality is rigorously defined and quantified the authors explore the underlying dynamics associated with the competitive processes along with the equilibrium solutions as appropriate the supply chain decision makers compete in terms of quantity and quality or in price and quality the relevance of the various models that are developed to specific industrial sectors including pharmaceuticals and high technology products is clearly made qualitative analyses are provided along with effective and easy to implement computational procedures finally the impacts of policy interventions in the form of minimum quality standards and their ramifications in terms of product prices quality levels as well as profits are explored the book is filled with many network figures graphs and tables with data

presenting a global view of the scope and complexity of supply chain management this book reflects the rapid change that has taken place within the supply chain and its environment the successful first edition has been fully updated giving readers an i

this is the first comprehensive investigation of the industrial sourcing and procurement practices throughout sixty eight construction industry supply channels across seven major commodity sectors at all levels london presents real world case studies to combine theory and practice to describe the economic structural and behavioural characteristics of sectors integral to the construction industry performance construction supply chain economics details everyday experiences and procurement decisions made by people in firms in the industry related to projects as they seek out other firms to work with during the tendering stage london creates a language that enables us to classify and understand behaviour and recognise the impact of our decisions on firms and projects within the industry construction supply chain economics introduces a new model for mapping the construction sector of particular interest to construction management and economic researchers and to procurement decision makers including policymakers and clients as well as industry practitioners such as contractors consultants and materials suppliers

introducing the new topic of supply chain economics this comprehensive title combines theory and practice including real world case studies to bring new methodology and models for mapping the construction sector

today supply chain transformation for creating customer value continues to be a priority for many companies as it enables them to gain a competitive advantage while value creation is shaped by external drivers such as market volatility technology product and service offering and disruption it can be stymied by the internal stresses arising from the need to minimize costs limitations in process redesign waste minimization and the unavailability of knowledge capital therefore for companies to survive and prosper the relevant questions to ask would be how to identify the external internal forces driving changes and how to map the business drivers to the attributes of transformation while the contemporary supply chain is well structured the evolving economic system is causing disruptions to this structure the emergence of novel business paradigms non applicability of the traditional laws of supply and demand dominance of negative externality effects and anomalies of high growth rate coexisting with high supply side

uncertainty must be recognized in transforming supply chains for example healthcare delivery and humanitarian relief do not follow known supply demand relationships the negative externality effects are increasing sustainability concerns and emerging economies with dysfunctional business infrastructure must manage high growth rates this book delves into the transformation issues in supply chains and extends the concepts to incorporate emerging issues it does so through ten chapters divided into three sections the first section establishes the framework for transformation while the second focuses on the transformation of current chains in terms of products processes supply base procurement logistics and fulfillment section three is devoted to capturing the key issues in transforming supply chains for emerging economies humanitarian relief sustainability and healthcare delivery this work will be of interest to both academics and industrial practitioners and will be of great value to graduate students in business and engineering it raises many questions some provocative and provides many leads for in depth research several approaches are suggested for new problems along with a discussion of case studies and examples from different industries

this book focuses on supply chain management in emerging markets the authors present issues relating to supply chain development covering countries such as brazil china the czech republic russia indonesia malaysian nepal turkey egypt and south africa and focuses on the challenges faced when the supply chain is designed and maintained such challenges derive from issues to do with risk security quality management and infrastructure among others case studies and survey results are presented in chapters which explore practical solutions to these issues the latter will be of interest not only to local and international managers but also to students who are interested in emerging economies the book covers manufacturing retail and food chains at the local and international levels

the economic foundations of supply chains contracts is premised on the theme that as supply chain management moves from a focus on optimization problems to issues of coordination a closer link to the underlying economic foundations is essential this monograph offers a synthesis of the economic foundations of supply chain contracts accordingly the coverage is selective and incorporates elements of economic theory that we believe will be of most value to our intended readers the students and scholars of management science and operations management after an introduction section 2 provides an overview of evidence on the nature and frequency of specific supply chain contracts section 3 offers some brief remarks on methodology concerning the application of economic theory to supply chain contracting section 4 reviews the basic setting perfect markets the simplest departure from perfect markets is the introduction of market power this is examined in section 5 via the assumption of a single monopolist upstream facing a competitive downstream market section 6 considers contracts in a standard framework one firm operates at each of two levels of a supply chain section 7 adds imperfect competition downstream section 8 considers contracts in a setting with a single downstream firm and multiple upstream firms including the case of a single incumbent firm facing potential entry section 9 reviews the role of contracts in competing supply chains sections 10 and 11 review the dynamics of supply chain contracting and an explicit asymmetric information approach to contracting section 12 reviews the key contributions to the fundamental issues of vertical integration investment in specific assets and long run or relational contracting section 13 concludes the monograph with an overview of additional issues in the economics of supply chain contracting

this book summarizes a set of lectures given at u c berkeley in the fall of 2001 highlighting the connection between traffic flow queuing systems and supply chains the book unveils the root causes of the bullwhip effect i e where the production of raw materials in a supply chain is seen to be more volatile than that of intermediate goods and

even more so than the final customer demand it also shows that this undesirable effect arises if suppliers act in a certain non cooperative way even if they have perfect information about the future their actions just as importantly as what they know determine the stability of a supply chain the book then describes control methods for eliminating all instabilities without increasing supplier costs and presents approximate cost formulas it also shows that for every supply chain there is a dual queuing system with identical behavior and that queuing systems can be similarly controlled

the third edition of this textbook comprehensively discusses global supply chain and operations management 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

this book is the first to bring an economics perspective in a rigorous manner to complex decision making in the management of supply chains it provides the foundations for the modeling of the interrelationships among decision makers in supply chains ranging from manufacturers distributors and retailers to the consumers assuming individualized behavior the models handle both competition and cooperation and provide the resulting product flows and prices in the chains a unique network economics perspective is brought to the issue setting the book apart from the numerous management and operations research volumes available after an introduction of the theoretical foundations the book then extends and applies the theory to energy supply chains in the form of electric power generation and distribution networks the relationships between electric power supply chains and transportation networks are vividly captured through theoretical results and the solution of practical examples the book then explores environmental supply chain and financial networks with intermediation which are interpreted as supply chains and also solved as such throughout the underlying theme is that of transportation networks and how the relationships between supply chain networks and the more established theory of transportation network equilibria can be applied and exploited for logistic type applications economists and transportation researchers will find the book's theory and applications of great interest operations researchers and management scientists as well as practitioners in business logistics will be interested in the book's methodological and practical tools

customer demands for individual attention and specialized products are transforming commerce at every stage including the supply chain today's high-stakes economy requires dynamic market savvy sales and operations planning to keep pace with accelerating service demands and response times it's not as daunting as it sounds with the tools tips and case studies in the market driven supply chain this practical yet expansive book helps organizations transition from outdated supply driven processes to new market driven models readers learn how to use robust analytics for conducting value segmentations and simulation analyses develop a customer centric culture and a collaborative organizational structure dynamically rebalance the inventory mix to improve capacity and reduce costs retool management processes to achieve market

savvy sop unlike other books that focus on only supply chain strategies or sop or lean manufacturing this book s sophisticated approach unifies all three areas and it s the only one to explain how to operate in today s on demand environment

food supply chain management economic social and environmental perspectives is very different from parts supply chain management as can be seen from the increasing health safety and environmental concerns that are increasingly garnering the public s attention about different food supply chain problems food supply chain managers face very different environments for example there are very specific regulations from government bodies such as fda or us department of agriculture commodity subsidy programs ever changing trade policies or increasing trends with intense public interest such as sustainability or bioengineering while the popular press has written extensively about certain food supply chain issues these books focus on health effects specific supply chain practices buy local vs commodity supply chain agricultural policy impacts and problems in the modern food supply chain food supply chain management covers the food supply chain comprehensively and is appropriate for a business student audience and students in agriculture business natural resources and food science

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

this incisive book integrates the academic fields of sustainable consumption and production scp and sustainable supply chain management sscm as a framework for challenging the current economic paradigm and addressing the significant ecological and environmental problems faced by the contemporary business world

global trends in policy and technology related fields are rapidly reshaping the port industry worldwide international in scope this volume applies concepts of strategic management supply chain management port and transport economics and economic and t

a proven framework for measuring the supply chain potential of geographic regions managing a complex global supply chain requires a strategic assessment of the various factors that can affect decisions on procurement manufacturing warehousing logistics distribution and sales co written by renowned experts in global supply chain management this book presents a systematic structured approach to evaluating ten global regions with respect to their supply chain activities the maturity level for each region is assessed using the epic framework economy politics infrastructure and competence managers of supply chains can use this framework and the exclusive data in this practical timely resource to identify the strengths weaknesses opportunities and threats of the different global regions and determine their supply chain strategies

accordingly global supply chains analyzes ten regions east asia south asia southeast asia australia the middle east and north africa mena sub saharan africa ssa western europe central and eastern europe north and central america south america

circular economy supply chains highlights the need for cross industry flows and the need for different actors in circular value cycles this book intends to move beyond a buyer supplier view embracing a holistic network or ecosystem view to consider a cross industry system perspective

the aim of this book is to investigate critical economic aspects and price risks along international pellet supply chains and to offer new insights into the interconnections between the sector the various supply risks within the market and guidelines for de risking biomass supply chains it provides three real case studies as practical examples of determining actual supply costs from resource production to end user and in doing so identifies and analyzes general economic performance indicators and price drivers for biomass supply chains it also investigates the impact of several risks like raw material prices exchange and freight rates on total prices as a result the reader learns how price risks are hedged to avoid project defaults and how to achieve the renewable energy targets of the end user practical guidelines for recognising critical economic issues in biomass supply chains and for applying adequate de risk strategies are also provided offering insights to a broad audience this book is intended for researchers and professionals interested in renewable energy systems biomass resource management and supply chain management it also provides an invaluable resource to policy makers seeking guidelines for successfully managing the introduction of sustainable biomass projects

non profit maximizing behavior in supply chain management focuses on the human component in supply chain management it develops behavioral models that consider individual and social preferences of supply chain members in order to improve our understanding of actual decision making in supply chain management the author challenges the common assumption of a selfish homo economicus and introduces the human component in three experimental studies in the first study he examines the effect of individual risk preferences in the newsvendor context in the second study a common group identity to overcome incentive conflicts in forecast sharing is studied the third study explores underlying cognitive processes in contractual decision making potential readership includes scholars and graduate students who are interested in the field of behavioral operations management and practitioners looking for behavioral aspects of decision making in supply chain management

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