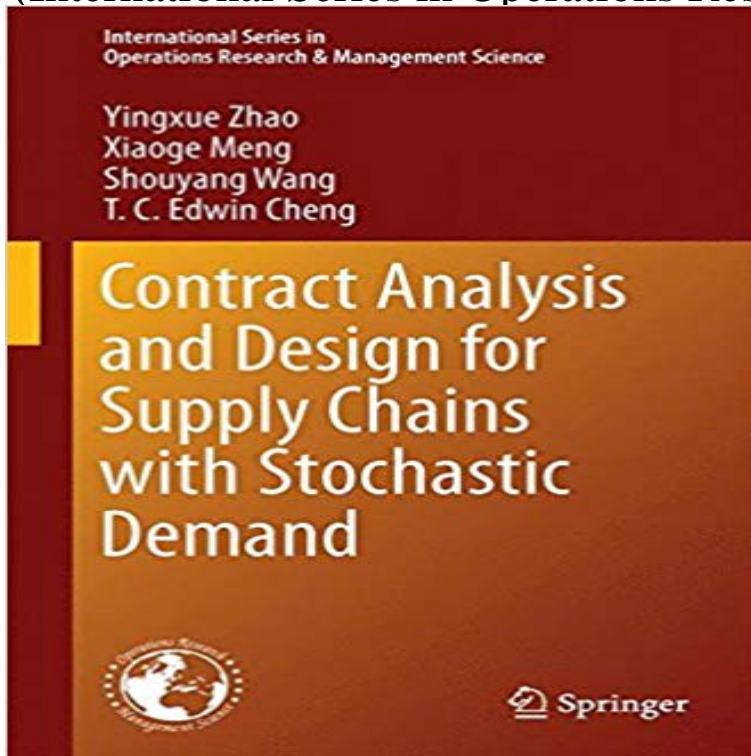# Contract Analysis and Design for Supply Chains with Stochastic Demand (International Series in Operations Research & Management Science)

International Series in Operations Research & Management Science

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T. C. Edwin Cheng

Contract Analysis and Design for Supply Chains with Stochastic Demand

Springer

This book is devoted to analysis and design of supply chain contracts with stochastic demand. Given the extensive utilization of contracts in supply chains, the issues concerning contract analysis and design are extremely important for supply chain management (SCM), and substantial research has been developed to address those issues over the past years. Despite the abundance of classical research, new research needs to be conducted in response to new issues emerging with the recent changing business environments, such as the fast-shortening life cycle of product and the increasing globalization of supply chains. This book addresses these issues, with the intention to present new research on how to apply contracts to improve SCM.Contract Analysis and Design for Supply Chains with Stochastic Demand contains eight chapters and each chapter is summarized as follows: Chapter 1 provides a comprehensive review of the classical development of supply chain contracts. Chapter 2 examines the effects of demand uncertainty on the applicability of buyback contracts. Chapter 3 conducts a mean-risk analysis for wholesale price contracts, taking into account contracting value risk and risk preferences. Chapter 4 studies the optimization of product service system by franchise fee contracts in the service-oriented manufacturing supply chain with demand information asymmetry. Chapter 5 develops a bidirectional option contract model and explores the optimal contracting decisions and supply chain coordination issue with the bidirectional option. Chapter 6 addresses supply chain options pricing issue and a value-based pricing scheme is developed for the supply chain options. With a cooperative game theory approach, Chapter 7 explores the issues concerning supply chain contract selection/implementation with the option contract under consideration. Chapter 8

concludes the book and suggests worthy directions for future research.

Mean-Risk Analysis of Wholesale Price Contracts with Stochastic Supply contracts with quantity commitments and stochastic demand. management, Handbooks in Operations Research and Management Science, ed. Supply Chains with Stochastic Demand, International Series in Operations Research **Contract Analysis and Design for Supply Chains with Stochastic** Contract Analysis and Design for Supply Chains with Stochastic Demand of the series International Series in Operations Research & Management Science pp **Contract Analysis and Design for Supply Chains with Stochastic Demand - Google Books Result** International Series in Operations Research & Management Science the new set of models being developed, the new techniques for analysis, and is on design and evaluation of supply contracts between independent agents in the supply chain. Supply Chain Contracting and Coordination with Stochastic Demand. **Contract Analysis and Design for Supply Chains with Stochastic** Contract Analysis and Design for Supply Chains with Stochastic Demand (2016) (International Series in Operations Research & Management Science #234) **Franchise Fee Contracts in Product Service System with Demand** Quantitative Models for Supply Chain Management. Volume 17 of the series International Series in Operations Research & Management Science pp 299-336 **Contract Analysis and Design for Supply Chains With Stochastic** **Contract Analysis and Design for Supply Chains with Stochastic** Contract Analysis and Design for Supply Chains with Stochastic Demand (International Series in Operations Research & Management Science) [Yingxue Zhao, **Modeling Supply Chain Contracts: A Review - Springer** International Series in Operations Research & Management Science. Volume 234 Contract Analysis and Design for Supply Chains with Stochastic Demand **Selection of Supply Chain Contracts: The Case of Option Contracts** Contract Analysis and Design for Supply Chains with Stochastic Demand of the series International Series in Operations Research & Management Science pp **Buyback Contracts with Price-Dependent Demands: Effects of**

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