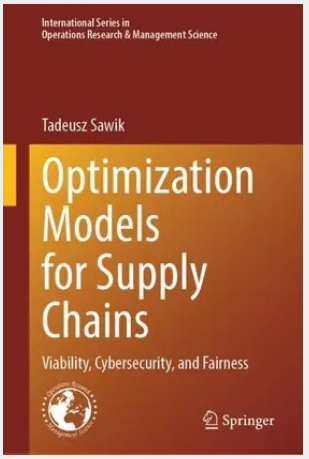
Sawik

Optimization Models for Supply Chains

Viability, Cybersecurity, and Fairness



This book presents advanced mathematical programming models for contemporary supply chain risk optimization problems. It focuses on cutting-edge issues such as supply chain viability under long-term disruption risks, including reshoring decisions; optimization of digital supply chain cybersecurity and physical resilience in cyber-physical supply chains; and supply chain fairness with respect to cost–service trade-offs, profit distribution, and the allocation of cybersecurity investments. It also introduces computationally efficient decision-making frameworks for emerging challenges in global supply chain management, including the reduction of cyber and physical risks and the enhancement of resilience and fairness. Each chapter ends with a table summarizing major managerial insights and the end-of-chapter problems to help the reader a self-check of material comprehension and to encourage for a further self-study. The book is intended for practitioners, researchers, and master's and PhD-level students in supply chain management, industrial engineering, operations research, applied mathematics, and related fields. Only an introductory background in operations research and supply chain management is assumed.

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