



Alexandre Dolgui  
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# Supply Chain Engineering

Useful Methods and Techniques

 Springer

# Supply Chain Engineering Useful Methods And Techniques

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## **Supply Chain Engineering Useful Methods And Techniques:**

**Supply Chain Engineering** Alexandre Dolgui, Jean-Marie Proth, 2010-06-02 Supply Chain Engineering considers how modern production and operations management techniques can respond to the pressures of the competitive global marketplace It presents a comprehensive analysis of concepts and models related to outsourcing dynamic pricing inventory management RFID and flexible and reconfigurable manufacturing systems as well as real time assignment and scheduling processes A significant part is also devoted to lean manufacturing line balancing facility layout and warehousing techniques Explanations are based on examples and detailed algorithms while discarding complex and unnecessary theoretical minutiae All examples have been carefully selected from an industrial application angle This book is written for students and professors in industrial and systems engineering management science operations management and business It is also an informative reference for managers looking to improve the efficiency and effectiveness of their production systems

**Supply Chain Engineering** A. Ravi Ravindran, Donald P. Warsing, Jr., Paul M. Griffin, 2023-08-30 This new edition textbook continues down the path that the first edition winner of the 2013 IISE Joint Publishers Book of the Year Award successfully carved out The textbook targets engineering students and emphasizes the use of operations research models and solution methods important in the design control operation and management of global supply chains Completely updated Supply Chain Engineering Models and Applications Second Edition stresses quantitative models and methods highlights global supplier selection and vendor risk management techniques and discusses the use of multiple criteria decision making models in supply chain management The new edition includes chapters on health and humanitarian supply chains including disaster management and logistics modeling and on warehousing and distribution Disruptions to global supply chains due to the COVID 19 pandemic are discussed throughout the book Industry and government strategies to make the global supply chains resilient are also presented Thirty four case studies have been included to illustrate various supply chain models and methods Exercises are included at the end of each chapter and a solutions manual and PowerPoint slides are available for qualified textbook adoptions The new edition continues to target upper level undergraduate and graduate students in engineering as well as MBA students in operations management logistics and supply chain management programs that emphasize quantitative analysis It is also useful as a reference for technical professionals and researchers in industrial engineering supply chain management procurement logistics and health administration

**Supply Chain Engineering**, 2011-10-06 [Introduction to Supply Chain Analytics](#) Dmitry Ivanov, 2024-05-27 The book offers a concise yet comprehensive introduction to supply chain analytics covering management modeling and technology perspectives Designed to accompany the textbook Global Supply Chain and Operations Management it addresses the topics of supply chain analytics in more depth The book describes descriptive predictive and prescriptive supply chain analytics explaining methodologies illustrating method applications with the use of training exercises and providing numerous examples in AnyLogic and

anyLogistix software Throughout the book numerous practical examples and short case studies are given to illustrate theoretical concepts Along with AnyLogic and anyLogistix model development guidelines and examples the book has two other distinct features First it reviews and explains novel frameworks and concepts related to data driven decision making and digital twins Second it shows how to use analytics to improve supply chain resilience Without relying heavily on mathematical derivations the book offers a structured presentation and explanation of major supply chain analytics techniques and principles in a simple predictable format to make it easy to understand for students and professionals with both management and engineering backgrounds Graduate Ph D students and supply chain professionals alike would benefit from a structured and didactically oriented concise presentation of the concepts principles and methods of supply chain analytics Providing graduate students and supply chain managers with working knowledge of basic and advanced supply chain analytics this book contributes to improving knowledge awareness of decision making in increasingly data driven and digital environments The book is supplemented by a companion website offering interactive exercises with the use of AnyLogic and anyLogistix software as well as Spreadsheet Modeling

*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

**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

Supply Chain Engineering Marc Goetschalckx, 2011-08-11 The focus of Supply Chain Engineering is the engineering design and planning of supply chain systems There exists a very large variety of supply chain system types all with different goals constraints and decisions but a systematic approach for the design and planning of any supply chain can be based on the principles and methods of system engineering In this book author Marc Goetschalckx presents material developed at the Georgia Tech Supply Chain and Logistics Institute the largest supply chain and logistics research and education program in the world The book can be roughly divided into four sections The first section focuses on data management Since most of planning and design requires making decisions today so that supply chain functions can be executed efficiently in the future this section introduces forecasting principles and techniques The second section of the book focuses on transportation systems First the characteristics of transportation assets and infrastructure are shown Then four chapters focus on the planning of transportation activities depending on who controls the transportation assets The third section of the book is focused on storing goods and the last section of the book is focused on supply chain systems that consider simultaneously procurement production and transportation and inventory as well as the design of the supply chain infrastructure or network design In each chapter first a model of the process being studied is developed followed by a description of practical solution algorithms More advanced material is typically described in appendices This makes it possible to use an integrated breath first treatment of supply chain systems by using the initial material in each chapter A more in depth treatment of a specific topic or process can be found towards the end of each chapter End of chapter

exercises are included throughout This text is suitable for several target audiences The first target is a course for upper level undergraduate students on supply chains The second target is the use in a capstone senior design project in the supply chain area The third target is an introductory course on supply chains either in a master of engineering or a master of business administration program and the final audience consists of students attending logistics or supply chain post graduate or continuing education courses

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

Design and Operation of Production Networks for Mass Personalization in the Era of Cloud Technology Dimitris Mourtzis, 2021-11-10 Design and Operation of Production Networks for Mass Personalization in the Era of Cloud Technology draws on the latest industry advances to provide everything needed for the effective implementation of this powerful tool Shorter product lifecycles have increased pressure on manufacturers through the increasing variety and complexity of production challenging their workforce to remain competitive and profitable This has led to innovation in production network methodologies which together with opportunities provided by new digital technologies has fed a rapid evolution of production engineering that has opened new solutions to the challenges of mass personalization and market uncertainty In addition to the latest developments in cloud technology reference is made to key enabling technologies including artificial intelligence the digital twin big data analytics and the internet of things IoT to help users integrate the cloud approach with a fully digitalized production system Presents diverse cases that show how cloud based technologies can be used in different ways as part of the standard operation of global production networks Provides detailed reviews of new technologies like the digital twin big data analytics and blockchain to provide context on the role of cloud technologies in a fully digitalized system Explores future trends for cloud technology and production engineering

Adaptive Supply Chain Management Dmitry Ivanov, Boris Sokolov, 2009-11-25 Adaptive Supply Chain Management

develops new viewpoints on the SCM goal paradigm problem semantics and decision making support Drawing upon years of research and practical experience and using numerous examples the authors unite conceptual considerations of supply chains with a constructive level of engineering and solutions to real world problems Adaptive Supply Chain Management provides advanced insights into dynamics complexity and uncertainty in supply chains from the perspectives of systems analysis control theory and operations research It also considers supply chain adaptability stability and crisis resistance Providing readers with a comprehensive view of advanced SCM concepts constructive mathematical techniques and models Adaptive Supply Chain Management is an invaluable text for practitioners and researchers who specialize in SCM and operations

**Supply Chain Engineering and Logistics Handbook** Erick C. Jones,2019-11-12 This handbook begins with the history of Supply Chain SC Engineering it goes on to explain how the SC is connected today and rounds out with future trends The overall merit of the book is that it introduces a framework similar to sundial that allows an organization to determine where their company may fall on the SC Technology Scale The book will describe those who are using more historic technologies companies that are using current collaboration tools for connecting their SC to other global SCs and the SCs that are moving more towards cutting edge technologies This book will be a handbook for practitioners a teaching resource for academics and a guide for military contractors Some figures in the eBook will be in color Presents a decision model for choosing the best Supply Chain Engineering SCE strategies for Service and Manufacturing Operations with respect to Industrial Engineering and Operations Research techniques Offers an economic comparison model for evaluating SCE strategies for manufacturing outsourcing as opposed to keeping operations in house Demonstrates how to integrate automation techniques such as RFID into planning and distribution operations Provides case studies of SC inventory reductions using automation from AIT and RFID research Covers planning and scheduling as well as transportation and SC theory and problems

**Supply Chain Engineering** A. Ravindran,Donald Paul Warsing,Paul M. Griffin,2023 This new edition highlights quantitative models and methods global supplier selection and vendor risk management techniques and multiple criteria decision making models used in supply chain management It addresses health and humanitarian supply chains and warehousing and distribution Global supply chain disruptions due to Covid 19 are discussed throughout the book along with industry and government strategies to make supply chains resilient Thirty four case studies illustrate various supply chain models and methods There are exercises at the end of each chapter and a solutions manual and PowerPoint slides are available for qualified textbook adoptions

**A Quality Engineering Techniques Approach to Supply Chain Management** Ramin Rostamkhani,Thurasamy Ramayah,2022-11-23 This book combines for the first time the operations management and operations research concepts in lean and agile supply chain management SCM for achieving decreased uncertainty increased productivity and sustainability through the use of quality engineering techniques QETs The book serves as a beneficial supplementary read for supply chain management and logistics courses in operations management

operations research for industrial engineering or management departments as the book uses practical examples of QET applications in SCM in a variety of industries such as manufacturing international shipping and services By reading this book a wide range of audiences from general readers to students in industrial engineering or management fields will learn practical skills that can be utilized in the application of quality engineering techniques in lean and agile SCM

**Techniques, Tools and Methodologies Applied to Global Supply Chain Ecosystems** Jorge Luis

García-Alcaraz, Cuauhtémoc Sánchez-Ramírez, Liliana Avelar-Sosa, Giner Alor-Hernández, 2019-08-29 This book presents the latest developments concerning techniques tools and methodologies in supply chain ecosystems It gathers contributions from a variety of experts who analyze a range of case studies and industrial sectors such as manufacturing energy agricultural healthcare humanitarian logistics and urban goods distribution to name but a few The book is chiefly intended to meet the needs of two sectors firstly the academic sector so as to familiarize students professors and researchers with the tools that are now being used to optimize supply chains and secondly the industrial and managerial sector so that supply chain management practitioners can benefit from methods and tools that are yielding valuable results in other contexts Lean Six Sigma for Supply Chain Management James Martin, 2006-10-12 Capitalize on a Powerful 10 Step Improvement Process to Identify and Solve Supply Chain Problems in Industrial Organizations Six Sigma practitioners and industrial managers who want to improve supply chain effectiveness in their organizations now have a powerful new weapon to add to their arsenal Lean Six Sigma for Supply Chain Management offers a unique 10 step improvement process for identifying and solving the root causes of supply chain problems in everyday operations Written by Master Black Belt James William Martin this proven management tool combines key aspects of Lean Manufacturing from the Toyota Production System and Six Sigma management principles in order to create a Lean Six Sigma approach that can dramatically improve supply chain function Lean Six Sigma for Supply Chain Management contains specific information for developing inventory models metrics for aligning objectives with strategic goals a concise overview of supply chain concepts and models illustrating how lead time and demand impact customer service and inventory investment levels This vital resource features A complete program for Lean Six Sigma improvement and control The latest Lean Six Sigma methods to identify and manage supply chains Expert help with Lean Six Sigma supply chains and third party logistics Applications of Lean Six Sigma to MRPII Guidance on root cause analysis using Six Sigma tools Designed to help Six Sigma professionals and frontline managers achieve higher levels of competitiveness Lean Six Sigma for Supply Chain Management provides the guidelines tools and techniques required to eliminate supply chain problems and boost company performance *AICHE Symposium Series* American Institute of Chemical Engineers, 1998 *Cornell University Courses of Study* Cornell University, 2007 *INFORMS Conference Program* Institute for Operations Research and the Management Sciences. National Meeting, 2000 **Introduction to Statistical Quality Control** Douglas C. Montgomery, 2019-11-06 Once solely the domain of engineers quality control has

become a vital business operation used to increase productivity and secure competitive advantage Introduction to Statistical Quality Control offers a detailed presentation of the modern statistical methods for quality control and improvement Thorough coverage of statistical process control SPC demonstrates the efficacy of statistically oriented experiments in the context of process characterization optimization and acceptance sampling while examination of the implementation process provides context to real world applications Emphasis on Six Sigma DMAIC Define Measure Analyze Improve and Control provides a strategic problem solving framework that can be applied across a variety of disciplines Adopting a balanced approach to traditional and modern methods this text includes coverage of SQC techniques in both industrial and non manufacturing settings providing fundamental knowledge to students of engineering statistics business and management sciences A strong pedagogical toolset including multiple practice problems real world data sets and examples and incorporation of Minitab statistics software provides students with a solid base of conceptual and practical knowledge

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