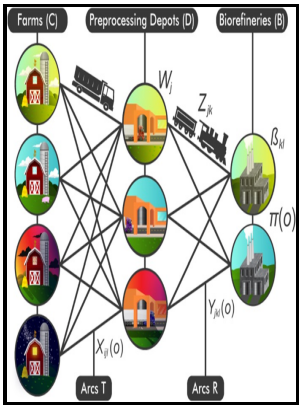
Stochastic modeling and optimization of manufacturing systems and supply chains

Kluwer Academic Publishers - Supply Chain Disruption Management Using Stochastic Mixed Integer Programming



Description: -
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Production control -- Mathematical models.
Production management -- Mathematical models.Stochastic modeling and optimization of manufacturing systems and supply chains
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Collection Omnes gentes
International series in operations research & management science -- 63Stochastic modeling and optimization of manufacturing systems and supply chains
Notes: Includes bibliographical references and index.
This edition was published in 2003

Filesize: 56.24 MB

Tags: #Models #and #Methodologies #for #Supply #Chain #Decision #Making

Risk Based Optimization of Electronics Manufacturing Supply Chains

We develop an optimization algorithm for the placement of strategic safety stock for supply chains that can be modeled as spanning trees. We also show how to optimize the tradeoff between production capacity and inventory for a single stage. A modeling approach called Monte Carlo sampling can be applied to distribute the projected replenishment orders of slow-moving products evenly over time.

Supply Chain Disruption Management Using Stochastic Mixed Integer Programming

The Second Target: Stock-Out Quantity In this study, the demand is assumed to follow normal distribution at interval of unit time, which is widely used in the literature see Qu et al.

Modeling and Optimization of the Multiobjective Stochastic Joint Replenishment and Delivery Problem under Supply Chain Environment

Bilevel optimization: Bilevel problems can come up in practice whenever decentralized or hierarchical decisions have to be made. The objective function of the PILOT model is a cost function, consisting of fixed and variable production and transportation costs, subject to supply, capacity, assignment, demand, and raw material requirement constraints. This general modeling framework integrates the life cycle analysis methodology with multiobjective optimization and measures both the economic and environmental performances based on a standard quantity of functional unit associated with final products.

Supply Chain Design and Analysis: Models and Methods

Thus, research that develops a meaningful classification scheme for supply chain systems that leads to rules-of-thumb associations between decision variables and performance objectives is needed.

CiteSeerX — Search Results — Manufacturing production plan optimization in three

Mixed integer linear programming: Mixed integer linear programming MILP is a mathematical modeling approach to find a best outcome of a system which has certain constraints. To aid in supply chain management, multi-echelon inventory, models now are likely to include echelons that incorporate the early part of the supply chain as well as the echelons for the distribution of the finished product.

Design of Sustainable Product Systems and Supply Chains with Life Cycle Optimization Based on Functional Unit: General Modeling Framework, Mixed

Collected into a single volume, these chapters aim to serve as a useful reference for researchers and practitioners alike, and also as reading materials for graduate courses or seminars.

Stochastic Planning for Cost

Integrated Hybrid Life Cycle Assessment and Optimization of Shale Gas. Furthermore, numerical studies generate certain managerial insights into related design and control issues. As to MOEA, the highest index after converting is shown in.

Stochastic Planning for Cost

Lee and Feitzinger 1995 develop an analytical model to analyze product configuration for postponement i.

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