

基于不同交货期策略的两供应商-单制造商协同供货模型

李果¹, 张祥¹, 马士华²

- 1. 北京理工大学管理与经济学院, 北京 100081;
- 2. 华中科技大学管理学院, 武汉 430074

Supply Coordination Model of Two-suppliers and One-manufacturer System Based on Different Delivery Policies

LI Guo¹, ZHANG Xiang¹, MA Shi-hua²

- 1. School of Management and Economics, Beijing Institute of Technology, Beijing 100081, China;
- 2. School of Management, Huazhong University of Science and Technology, Wuhan 430074, China

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摘要 构建了基于不同交货期策略的两供应商-单制造商协同供货模型.在对基于交货窗的协议交货期交货策略1和基于费用分担的可控交货期交货策略2进行分析和描述后,根据策略1建立了交货窗下基于协议交货期的两供应商-单制造商的stackelberg对策模型,分析了各自的最优决策;根据策略2建立了费用分担机制下基于可控交货期的两供应商-单制造商协调优化模型,给出了求解最优值的算法.接着分析了策略2优于策略1下的交货期压缩费用分担系数,给出了分担系数的范围,在此基础上建立了基于改进理想点的不对称Nash协商交货期压缩费用分担协调策略.最后通过数例对两种交货策略进行了分析比较并验证了本文的分担协调策略是有效的.

关键词: 交货期策略 两供应商-单制造商 Stackelberg对策 Nash协商

Abstract: Supply coordination model of two-suppliers and one-manufacturer based on different delivery policies is established. After analysis and description of agreed delivery date based on delivery window (called policy 1) and controllable delivery date based on cost sharing (called policy 2), the Stackelberg model of two-suppliers and one-manufacturer system based on agreed delivery date under delivery window is constructed, according to policy 1 and the optimal decision of each side. According to policy 2 the optimization and collaboration model of two suppliers and one manufacturer system, based on controllable delivery date under cost sharing mechanism, is built up, and the algorithm of optimal solution is given. Then, range of the cost sharing coefficient is given after analysis of the situation that policy 2 is superior to policy 1, and the coordination policy of asymmetric Nash Equilibrium is put forward based on adapted ideal point. Finally, the two delivery policies are compared and the sharing collaborative policy is proved effective in numerical example.

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作者简介: 李果(1980-),男(土家族),湖南怀化人,北京理工大学管理与经济学院讲师,博士,研究方向:物流与供应链管理.

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