

带全量价格折扣的供应商最低免运费订货批量研究

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Supplier's Free Shipping Quantity with Price All-Unit-Discount

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摘要 本文从供应商角度, 首先基于经济订货批量模型建立了使供应商利润最大化的最小订货量优化模型, 并给出了解析解。然后, 我们又将其拓展到商品带全量价格折扣和运费带全量折扣的情形, 并基于折扣函数的非连续性, 运用逆向归纳法建立了最优免运费最小订货量的数值算法。最后通过算例对最优免费送货策略的有效性及使用条件进行了理论分析。

关键词: [免费送货策略](#) [库存管理](#) [运输费用](#) [价格折扣](#) [最小订货量](#)

Abstract: In this paper, under condition of economic order quantity model, firstly a free shipping optimal model is established to compute the least order size from the supplier's perspective, and then the model is extended to the case of the price all-unit-discount and transport costs discount. A solution method to solve the model is given. The condition under which the free ship model can be used and how much benefit can be made is theoretically analyzed.

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