

Research on Supply Chain Coordination Based on Lateral Transshipment in the Background of New Retail

Authors : Yue Meng, Lingyun Wei

Abstract : In this paper, the coordination problem of a supply chain system composed of multiple retailers and manufacturers is studied under the background of the new retail supply chain. Taking a system composed of two retailers and one manufacturer as an example, this paper introduces an online store owned by the manufacturer to reflect the characteristics of the combination of online and offline new retail. Then, this paper gives the conditions that need to be satisfied to realize the coordination between retailers and manufacturers, such as the revenue sharing coefficient. The supply chain coordination model is compared with the newsboy model through a specific example. Finally, the conclusion is drawn that the profits of the coordinated supply chain and its members are better than the corresponding profits under the newsboy model; that is, the coordination of the supply chain is realized by using the revenue sharing contract and the transshipment fund mechanism.

Keywords : transshipment, coordination, multi-retailer, revenue-sharing contract

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