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A generalized payment policy for deteriorating items when demand depends on price, stock, and advertisement under carbon tax regulations(Article)

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Abstract

The down-cash-credit method is quite common in today's real-world commercial transactions. In light of existing legislation to decrease carbon pollution, this research aims to investigate how down-cash-credit payments impact business strategies for perishable items in the context of the most commonly utilized carbon tax legislation. Specifically, this article demonstrates an inventory system from the buyer's point of view in which (a) the demand curve is determined by the price, displayed volume, and frequency of advertisement, (b) the product is constantly deteriorating, (c) the supplier provides one of the frequently utilized down-cash-credit payment methods, and (d) the buyer gets taxed at a consistent rate for each ton of

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