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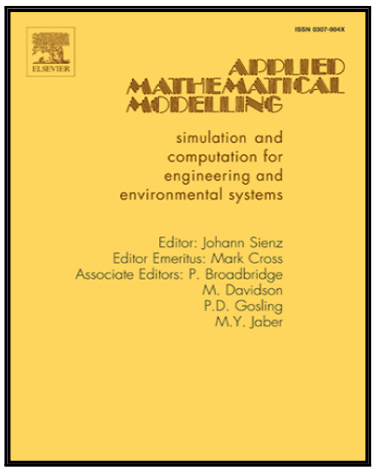

Inventory lot-size policies for deteriorating items with expiration dates and advance payments

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Highlights

- Proposes an inventory model for deteriorating items with expiration dates and advance payments.
- The retailer's decision variables are the cycle time and the fraction of no shortages.
- It is shown that the total cost is strictly pseudo-convex in either one of two decision variables.
- The paper provides an optimal solution for arbitrary deterioration rates.
- Some managerial insights are presented.

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