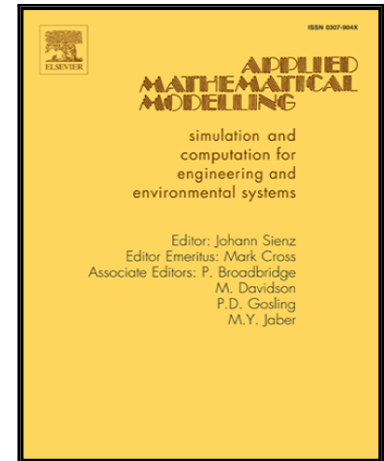


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Optimal replenishment quantity of new products and return rate of used products for a retailer

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Highlights

- The retailer not only sells new products but also collects used products.
- The policy with collecting used products consideration is more beneficial.
- The optimal solution is obtained in closed form under cost minimization.
- An algorithm is developed to find the optimal solution under profit maximization.
- Numerical examples are provided for the models and the solution procedures.

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