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Original Articles

Dynamic product acquisition in closed loop supply chains

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Abstract

We consider a closed-loop supply chain where demand can either be satisfied by manufacturing new products or by buying back used products from customers and upgrading their functionality by remanufacturing. A joint buy-back pricing and manufacturing-remanufacturing decision model at the operations-marketing interface is presented that allows for dynamic parameters, e.g. product life cycles and seasonal the identification of heneficial unities for huving back aspects.

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Accept All arv and Essential Onl Coststrategies Settings t. in iired so as nd stored for manufactured and remanufactured products. Furthermore, we discuss several reactive and proactive acquisition and remanufacturing heuristics and show under which conditions they are optimal. The findings are illustrated by numerical examples.

Q Keywords: reverse logistics supply chain management



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