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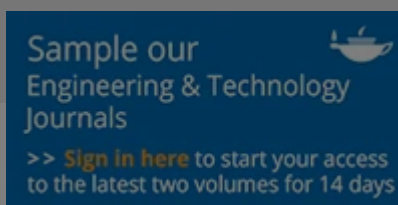
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Dynamic product acquisition in closed loop supply chains

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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 and remanufacturing. The manufacturing interface and seasonal buying back new primary and cost-effective strategies are required so as and stored for future remanufacturing, and intervals where demand is satisfied by a mix of

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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.

Keywords: reverse logistics supply chain management

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