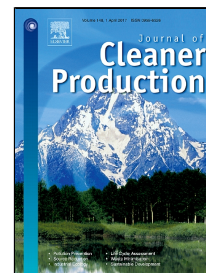


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A novel closed-loop supply chain based on the quality of returned products

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- A closed-loop supply chain network is examined based on quality of returned items.
- The proposed mixed integer model decides whether a return should be repaired, remanufactured or recycled in a secondary supply chain.
- Transformation methods are used to convert the proposed conditional constraints.
- Sensitivity analysis is conducted on the model to track the changes of key parameters on the profits.

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