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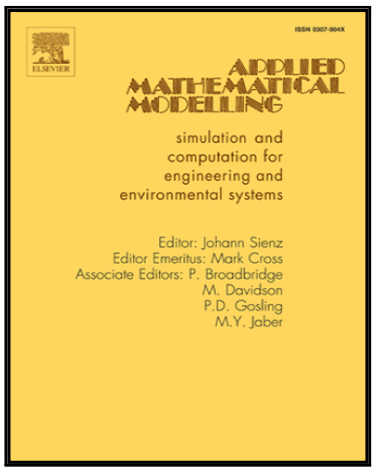

An imperfect EPQ model with Up-stream Trade Credit Periods Linked to Raw Material Order Quantity and Down-stream Trade Credit Periods

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Highlights

- Both upstream and downstream trade credit are used.
- Assumes a linked to order trade credit is offered to the manufacturer from the supplier,
- Six different situations according to the possible cases are studied.
- The convexity of all cost functions related to all cases is proved.
- Closed-form optimal solutions for production lot size and backlogged shortage are derived.

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