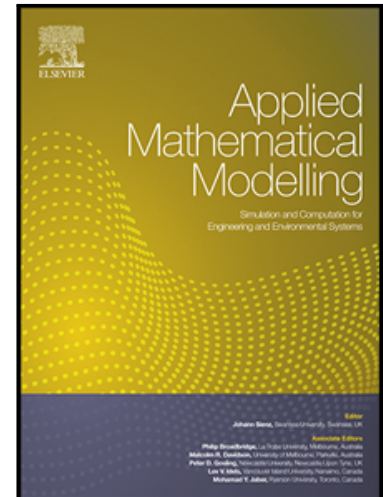


# Accepted Manuscript

Two Stage Closed Loop Supply Chain Models under Consignment Stock Agreement and Different Procurement Strategies

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**Highlights**

- **Jointly optimizes procurement, production and shipping decisions for a two-stage closed-loop supply chain system.**
- **Presents two mathematical models for two different raw material (RM) replenishment strategies.**
- **Proposes an efficient iterative search algorithm that guarantees convergence to near optimal solutions.**
- **The Incorporation of RM replenishment strategy greatly impacts production sequencing, lot sizing and shipping decisions.**

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