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A unified theory of the dynamics of closed-loop supply chains

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Highlights

- The dynamics of a closed-loop supply chain is considered.
- Demand and return processes are assumed as a VAR(1) process.
- Remanufacturing process is subject to random yield.
- We establish an optimal liner policy for a closed-loop supply chain.
- The lead-time paradox can exits in bullwhip, capacity cost and inventory cost.

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