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Sustainable Multi-echelon Inventory Control with Shipment Consolidation and Volume Dependent Freight Costs

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Highlights

- Exact analysis of single- and multi-item one-warehouse-N-retailer inventory systems.
- Time-based shipment consolidation to groups of retailers.
- Derivation of probability mass functions for the number of units on each shipment.
- Two transportation options, non-linear freight costs and transportation emissions.
- Optimization of reorder-levels, shipment intervals, and capacity reservation levels.

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