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Integrated Location- Inventory Modelling under Forward and Reverse Product Flows in the Used Merchandise Retail Sector: A Multi-Echelon Formulation

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Highlights

- We model a novel multi-echelon distribution system for used merchandise retailers.
- We examine system costs impacted by inventory uncertainties, coverage radius.
- Lagrangian methods lead to efficient, fast solutions and alternative designs.
- System designs can differ dramatically depending on cost elements considered.
- Provides robust tactical designs as periodically needed for decision makers in used merchandise retail environments.

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