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Partial Objective Inequalities for the Multi-Item Capacitated Lot-Sizing Problem

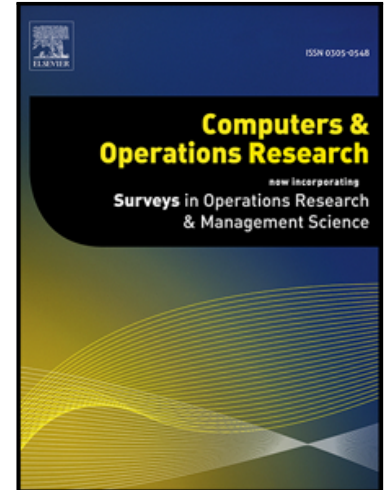
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Highlights

- We study the single-level multi-item capacitated lot-sizing problem (MCLSP).
- We propose partial objective inequalities to strengthen the MCLSP MIP formulation.
- These inequalities are strengthened by lifting and back-lifting strategies.
- A separation routine that employs these cuts in a cut-and-branch scheme is given.
- Computational results show substantial improvements in solving the MCLSP.

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