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The Stochastic Lot-Sizing Problem with Quantity Discounts

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Highlights

- This paper examines the uncapacitated stochastic lot-sizing problem with quantity discounts in finite horizon.
- By modelling the problem with a scenario tree, we characterize properties of the optimal policy and propose a polynomial time algorithm in terms of the number of nodes in the scenario tree.
- Numerical experiments are conducted to evaluate the performance of the algorithm and to gain the management insights.

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