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The Discrete-Time EOQ Model: Solution and Implications

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**Highlights**

- We study the classical EOQ with backorders model by assuming discrete time.
- Cost optimization reduces to solving a non-convex two-dimensional integer program.
- We establish properties and an efficient algorithm for the problem solution.
- Optimal cost is found always smaller than that of the classical EOQ.
- We exploit the deterministic analysis to define new bounds for stochastic systems.

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