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Imperfect inspection optimization for a two-component system subject to hidden and two-stage revealed failures over a finite time horizon

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**Highlights**

- A two-component system subject to hidden and two-stage revealed failures is studied.
- Each revealed failure increases the occurrence rate of hidden failure.
- Both periodic and opportunistic inspection may be imperfect.
- The goal is to find the optimal periodic inspection interval that minimizes total cost.
- Recursive formulation is supplied for creating expected values applied in simulation.

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