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An exact static solution approach for the service parts end-of-life inventory problem

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**Highlights**

- Static version of end-of-life service parts inventory problem is optimally solved.
- We show that, for any given  $\tau$ , the expected total cost function is convex in  $x$ .
- An algorithm is developed to find the optimal values of decision variables.
- Expected total cost of static policy is comparable to the dynamic heuristic one.

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