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Capacitated disassembly scheduling under stochastic yield and demand

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Highlights

- A capacitated disassembly scheduling problem with random yields and demands is considered.
- A second-order cone constraint is proposed to approximate a chance constraint.
- An outer approximation based solution algorithm is provided.
- Yield uncertainty causes more costs to remanufacturers than demand uncertainty.
- A case study of a valve producer shows that the proposed method can provide an optimal disassembly schedule within an acceptable time.

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