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Robust Integrated Production-Maintenance Scheduling for an Evaporation Network

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**Highlights**

- Coordination of production and maintenance improves resource efficiency.
- Long-term fouling effects are included to achieve optimal operation.
- A two-stage stochastic approach is used to tackle uncertainty.
- Surrogate plant models allow the optimization to be solved in real time.
- A further analysis is provided through offline multi-objective optimization.

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