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A Novel MINLP Model of Front-end Crude Scheduling for Refinery with Consideration of Inherent Upset Minimization

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Highlights

- Propose a new methodology to deal with the front-end crude scheduling (FECS) problems with consideration of inherent upset minimization.
- Develop a novel MINLP model to determine the optimal FECS solution by minimizing the overall operating cost and instability.
- Address the flowrate fluctuations of feeding crude distillation units and the long-distance pipeline (LDPL) as the primary and secondary inherent upsets.
- Simultaneously consider the trans-mixing issue inside the LDPL and multiple types of crudes with multiple key properties.

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