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Rigorous Design of Reaction-Separation Processes Using  
Disjunctive Programming Models

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## Highlights

- Method for rigorous and simultaneous design of reaction-separation-recycle processes
- Two new reactor superstructures proposed for reactor network synthesis
- Rigorous tray-by-tray GDP model used for separation network design
- Flowsheet structures and process-unit operations simultaneously optimized
- Two industrial chemical processes as case studies

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