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RESEARCH PAPERS

废物最小化的过程集成方法及多目标优化

高瑛[a] 石磊[b] 姚平经[a]

[a] School of Chemical Engineering, Dalian University of Technology, Dalian 116012, China

[b] Department of Environment Engineering, Tsinghua University, Beijing 100084, China

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摘要 By avoiding or reducing the production of waste, waste minimization is an effective approach to solve the pollution problem in chemical industry. Process integration supported by multi-objective optimization provides a framework for process design or process retrofit by simultaneously optimizing on the aspects of environment and economics. Multi-objective genetic algorithm is applied in this area as the solution approach for the multi-objective optimization problem.

关键词 waste minimization process integration multi-objective optimization multi-objective genetic algo rithm

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Waste Minimization Through Process Integration and Multi-objective Optimization

GAO Ying[a] SHI Lei[b] YAO Pingjing[a]

[a] School of Chemical Engineering, Dalian University of Technology, Dalian 116012, China

[b] Department of Environment Engineering, Tsinghua University, Beijing 100084, China

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Abstract By avoiding or reducing the production of waste, waste minimization is an effective approach to solve the pollution problem in chemical industry. Process integration supported by multi-objective optimization provides a framework for process design or process retrofit by simultaneously optimizing on the aspects of environment and economics. Multi-objective genetic algorithm is applied in this area as the solution approach for the multi-objective optimization problem.

Key words waste minimization; process integration; multi-objective optimization; multi-objective genetic algo rithm

通讯作者:
高瑛 yaopj98@mail.dlptt.ln.cn
作者个人主页: 高瑛[a] 石磊[b] 姚平经[a]