

计算机与应用化学

JISUANJI YU YINGYONG HUAXUE

第 27 卷 第 10 期

2010 年 10 月

目 次

多元料浆气化流程建模及分析	刘杨, 刘桂莲, 冯霄	(1305)
基于降精度求解准则的快速最优控制问题求解算法	万娇娜, 邵之江, 王可心, 王志强, 钱积新	(1309)
乙烯裂解炉机理模型在线预报系统的设计与实现	康少栋, 熊智华, 吕宁, 王京春, 邵杰峰, 钟向宏	(1313)
新的汽油调合辛烷值模型及其现场应用	程辉, 刘朝, 钱锋	(1317)
PCA_SVM 的多故障分类方法在 TE 过程中的应用	何菲, 杜文莉, 钱锋	(1321)
SL-II 型乙烯裂解炉机理建模及在线应用	王文娟, 王京春, 吕宁, 熊智华, 邵杰峰, 钟向宏	(1325)
基于数据驱动技术和工艺机理模型的 PTA 生产过程软测量建模方法	姚科田, 邵之江, 陈曦, 纪彭, 蒋鹏飞	(1329)
对二甲苯装置异构化单元先进控制系统的开发与应用	刘先广, 黄德先, 施大鹏, 王众, 李凤生	(1333)
基于非线性规划法的多杂质体系水和能量同时最小化研究	都健, 田婷婷, 陈理	(1337)
空分过程变量预测的多变量时间序列分析方法	卢斌彰, 赵豫红, 谢飞	(1341)
改进的 PSO 算法在常压塔参数调优中的应用	李向阳, 叶贞成, 钱锋, 祁荣宾	(1345)
基于启发式方法的弹性换热网络的合成	汪旭, 冯霄	(1349)
独立因子分析方法在过程监控中的应用	尹雪岩, 刘飞	(1353)
基于 PCA 的动态化工过程实时故障监测系统研究	董国胜, 任伟	(1357)
炼化企业中氢气管网的中间等级设置与优化分析	张亮, 刘永忠, 闫哲	(1361)
不同气液流量下喷射器内液滴特性分析	冯敏, 谭心舜, 陈文武, 毕荣山, 刘振东	(1365)
模糊 SDG 故障诊断及推理方法研究	王春利, 张卫华, 吴重光	(1370)
基于时序过程片段分析的符号有向图实时故障诊断方法	张静哲, 杜文莉, 钱锋	(1375)
基于遗传混沌算法的 LSSVM 参数优化及应用	黎兴宝, 潘丰	(1380)
双层结构 PID 控制器性能评估研究	周猛飞, 蔡亦军, 谢磊, 王树青	(1383)
基于 MFA-ICA 的间歇过程在线监控	张少捷, 王振雷, 钱锋	(1387)
基于贝叶斯网络的软测量建模方法	李雅芹, 周开武, 杨慧中	(1391)
醋酸脱水非均相共沸精馏过程多稳态研究	黄定伟, 李绍军	(1395)
基于神经网络和多模型的非线性离散自适应控制	王大海, 王昕, 王振雷, 钱锋	(1399)
聚乙二醇生产装置用能优化研究	张海滨, 安维中, 李佳, 周立明, 朱建民	(1403)
海水淡化集成系统的模拟与优化	伍联营, 高从堦, 胡仰栋	(1407)
化工过程本质安全的模糊评价研究	王芳, 曲文晶	(1410)
NSGA-II 求解多目标优化综合精度的研究	岳金彩, 汪捷, 郑世清	(1413)
基于 BP 神经网络的石化过程在线故障监测系统	李传坤, 张卫华, 王春利, 吴重光	(1418)
高聚物溶液粘度的建模与估算	杨文华, 杨霞, 郑世清	(1421)
应用带补偿的机会约束规划策略优化精馏过程的研究	张化杰, 孙力, 陆雪峰	(1425)
二氧化碳汽提法尿素装置高压合成区仿真模型开发	夏力, 齐俊岭, 项曙光	(1428)
合成氨装置转化工段仿真模型的开发	孙晓岩, 夏力, 项曙光	(1431)
结合 LM 算法的 PID 神经网络预测控制系统	张译江, 刘飞	(1434)
炼油化工 MES 功能与架构研究	王华	(1437)
基于 TIA 的罐区管控一体化系统及应用探讨	贾红阳, 张志橦	(1441)
APS 系统在乙烯原料优化中的应用研究	赵黎明, 周海鹏, 王喆, 王华	(1446)
用水成本不确定条件下生态工业园区全局用水网络综合研究	贾小平, 刘彩洪, 石磊	(1449)
线性规划方法在某石化企业开工选油中的应用	杨磊, 汪洪涛, 王喆, 王华	(1453)
精细化工领域过程系统工程技术研究发展趋势探讨	邹志云, 刘建友, 王涛, 于鲁平, 吴春华, 郭宁	(1456)
过程工业供应链模型及算法研究进展	张毅, 董宏光, 肖武	(1461)
(2010) 中国化工学会信息技术应用专业委员会 25 周年年会即将召开		(1374)

CONTENTS

Simulation and analysis of multi-component slurry gasification process	Liu Yang, et al	(1308)
Fast algorithm based on reduced precision solution criterion for solving optimal control problem	Wan Jiaona, et al	(1312)
System design and realization of on-line prediction of ethylene pyrolyzer based on mechanism model	Kang Shaodong, et al	(1316)
A novel octane number model for gasoline blending and its application.....	Cheng Hui, et al	(1320)
Multi_faults classification method based on PCA_SVM and its application to the TE process	He Fei, et al	(1324)
Modeling and application of SL-II ethylene pyrolysis furnace.....	Wang Wenjuan, et al	(1328)
Data-driven technology and mechanism model based soft sensor modeling in PTA process	Yao Ketian, et al	(1332)
Development and application of advanced process control system in isomer transformation unit of PX plant	Liu Xianguang, et al	(1336)
The study of simultaneous water and energy minimization for multi-contaminant system based on non-linear programming method.....	Du Jian, et al	(1340)
Multivariate time series based variable prediction in air separation process	Lu Binzhang, et al	(1344)
The application of improved PSO in parameters optimization of atmospheric column.....	Li Xiangyang, et al	(1348)
Synthesis of flexible heat exchanger network based on Heuristic Approach.....	Wang Xu, et al	(1352)
Process monitoring and application based on independent factor analysis.....	Yin Xueyan, et al	(1356)
A real-time fault monitoring system for the dynamic chemical process based on PCA.....	Dong Guosheng, et al	(1360)
Analysis and optimization on installation of intermediate levels for a hydrogen distribution network in a refinery	Zhang Liang, et al	(1364)
Droplets' characteristics in the ejector under different gas and liquid flow rate	Feng Min, et al	(1369)
Fault diagnosis and reasoning method research based on SDG model and fuzzy fusion.....	Wang Chunli, et al	(1374)
SDG real-time fault diagnosis based on time-sequence process fragment analysis.....	Zhang Jingzhe, et al	(1379)
Parameter optimization and application of LSSVM based on genetic algorithm and chaos optimization.....	Li Xingbao, et al	(1382)
Performance assessment of PID controller based on two-layer structure	Zhou Mengfei, et al	(1386)
Batch process monitoring based on MFA-ICA	Zhang Shaojie, et al	(1390)
A soft sensor based on Bayesian network.....	Li Yaqin, et al	(1394)
Study on multiple steady state in acetic acid dehydration system via heterogeneous azeotropic.....	Huang Dingwei, et al	(1398)
Nonlinear discrete time adaptive controller based on multiple models and neural networks	Wang Dahai, et al	(1402)
Optimization of energy consumption of Polyethylene Glycol Plant.....	Zhang Haibin, et al	(1406)
Simulation and optimization of integration desalination system	Wu Lianying, et al	(1409)
Inherent safety assessment of chemical processes based on fuzzy logic	Wang Fang, et al	(1412)
Study on accuracy of NSGA- II on Multi-objective process synthesis.....	Yue Jincai, et al	(1417)
BPNN-based on-line fault monitoring system for petrochemical process	Li Chuankun, et al	(1420)
Modeling and estimation of polymer solution viscosity	Yang Wenhua, et al	(1424)
Distillation process optimization by the methodology of chance constrained programming with recourse	Zhang Huajie, et al	(1427)
Dynamic modeling and simulation for high-pressure synthesis area of urea plant based on carbon dioxide stripping process	Xia Li, et al	(1430)
Simulation model development of transform process in ammonia production.....	Sun Xiaoyan, et al	(1433)
A neural network-based predictive control system with levenberg-marquardt method	Zhang Yijiang, et al	(1436)
Study on function & architecture of refinery & petrochemical MES.....	Wang Hua	(1440)
TIA based tank control integration system and its application	Jia Hongyang, et al	(1445)
Application reach of APS system in optimization of ethylene feedstock.....	Zhao Liming, et al	(1448)
Synthesis of total water network based on water prices in eco-industrial parks	Jia Xiaoping, et al	(1452)
The applications of linear programming method in choosing buy crude oil for a petrochemical company.....	Yang Lei, et al	(1455)
Overview on the developing trends of process system engineering in the fine and specialty chemicals production area	Zou Zhiyun, et al	(1460)
Progress of models and algorithms of supply chain in process industries	Zhang Yi, et al	(1464)