

合 肥 工 业 大 学 学 报

(自然科学版)

2017 年 4 月

总第 288 期

第 40 卷第 4 期

[期刊基本参数] CN 34—1083/N * 1956 * m * A4 * 144 * zh * P * ¥12.00 * 1 000 * 26 * 2017—04

目 次

• 机械与汽车工程 •

基于最优能量转移的混合拓扑结构研究	严 刚, 张 利, 景俊峰, 刘征宇(433)
基于响应曲面法的 CFRP 高速铣削切削力试验研究	禹 杰, 林有希, 林 华(438)
基于 HyperWorks 的参数化有限元分析平台研究	董迎晖, 余 晗(443)
高速拉床液压系统拉削振动特性分析	柳 波, 刘 琪, 桂 珍, 王亚雄(447)
纯电动中型客车传动系参数的模型在环优化	许世维, 贺伊琳, 刘 伟, 赵 轩(453)
泡沫铝层合结构汽车发动机罩板研究	于英华, 刘 明, 陈玉明, 苏子龙(461)

• 材料科学与工程 •

多孔碳碳化温度对锂硫电池性能的影响	唐 琼, 李合琴, 张 静, 左 敏, 潘媛媛, 林志伟(466)
-------------------------	-----------------------------------

• 计算机与信息工程 •

基于 Q 学习和 TD 误差的传感器节点任务调度算法	徐祥伟, 魏振春, 冯 琳, 张 岩(470)
一种面向 NTN 网络转发模块的研究实现	张祖华, 杨明武, 杨克荣(476)
BDS/GPS 双模静态 PPP 定位精度与收敛性分析	刘昌盛, 蔡成林, 王亮亮, 秦 懿, 李 刚(481)

• 电气与自动化工程 •

基于支持向量机的大电网运行风险量化评估	汤 伟, 王京景, 杨 铨, 张大波, 刘 辉, 刘路登(486)
基于主导变量选取的点估计随机潮流方法	肖远兵, 程浩忠, 梅红兴(492)

• 电子科学与工程 •

GaAs 光导开关损伤机理研究	孙飞翔, 何晓雄, 常润发, 奚 野(497)
-----------------------	-------------------------

• 土木与水利工程 •

矿坑涌水量预测模型参数灵敏度分析	王科奇, 刘佩贵, 陶月赞, 李 飞, 樊慧慧(502)
基于 AQWA 的潮流能发电平台稳定性研究	曹猛猛, 巫绪涛, 朱海峰(506)
基于 bin 法的温湿度独立控制土壤源热泵系统节能性研究	万方数据
.....	祝 健, 刘 饶, 姚 曜, 汤玲玲(511)

改进组合式 T 形钢管内核心混凝土应力-应变关系	曹 兵, 戴绍斌, 黄 俊, 陶 李(515)
基于 FLAC-3D 数值模拟分析逆作法的深基坑变形	杨益飞, 关 群, 孙若晗, 高 菊, 张 力(522)
混凝土二次受力对叠合梁极限承载力的影响分析	朱德孙, 盛宏玉(528)
• 资源与环境工程 •	
某废弃化工厂场地土壤重金属污染评价	任文会, 吴文涛, 陈 玉, 文国涛, 潘成荣, 刘桂建(533)
歙县细碧-角斑岩地球化学特征及其地质意义	余良范, 马 良, 朱 强, 胡召齐(539)
• 生物与食品工程 •	
番茄中一个抗病基因功能的研究	许 伟, 苗 敏, 唐晓凤, 刘永胜(547)
• 管理科学与工程 •	
基于人-物-场信息融合的事件信息结构模型	任明仑, 李 伟(553)
风险规避下基于联合促销的供应链协调研究	汪 亚, 汪峻萍(559)
• 数理科学 •	
非线性脉冲系统的渐近稳定性条件	倪郁东, 刘 伟, 倪汗青, 彭振宇(567)
基于电荷俘获-释放机制的电路 PBTI 老化建模	李 扬, 易茂祥, 缪 永, 邵 川, 丁 力(572)

CONTENTS

• Machinery and Automobile Engineering •

A hybrid topology based on optimal energy transfer path
..... YAN Gang, ZHANG Li, JING Junfeng, LIU Zhengyu(433)

Experimental study of cutting force in high-speed milling of CFRP by response surface methodology
..... YU Jie, LIN Youxi, LIN Hua(438)

Research on parameterized FEM analysis platform based on HyperWorks DONG Yinghui, YU Han(443)

Analysis of broaching vibration characteristics of high speed broaching machine hydraulic system
..... LIU Bo, LIU Qi, GUI Zhen, WANG Yaxiong(447)

Optimization with model in loop for middle-size electric bus drive-train parameters
..... XU Shiwei, HE Yilin, LIU Wei, ZHAO Xuan(453)

Study of automobile engine hood with aluminum foam laminated structure
..... YU Yinghua, LIU Ming, CHEN Yuming, SU Zilong(461)

• Material Science and Engineering •

Effect of porous carbon carbonizing temperature on the properties of Li-S batteries
..... TANG Qiong, LI Heqin, ZHANG Jing, ZUO Min, PAN Yuanyuan, LIN Zhiwei(466)

• Computer and Information Engineering •

A Q-learning and TD error based task scheduling algorithm for sensor nodes
..... XU Xiangwei, WEI Zhenchun, FENG Lin, ZHANG Yan(470)

Research on forwarding module of node-to-node network
..... ZHANG Zuhua, YANG Mingwu, YANG Kerong(476)

Analysis of positioning accuracy and convergence of BDS /GPS dual-mode static PPP
..... LIU Changsheng, CAI Chenglin, WANG Liangliang, QIN Yi, LI Gang(481)

• Electrical Engineering and Automation •

Quantitative assessment of large power grid operation risk based on support vector machine
..... TANG Wei, WANG Jingjing, YANG Cheng, ZHANG Dabo, LIU Hui, LIU Ludeng(486)

Probabilistic load flow method based on point estimation and selection of dominated variables
..... XIAO Yuanbing, CHENG Haozhong, MEI Hongxing(492)

• Electronic Science and Engineering •

GaAs PCSs’s injuring mechanism SUN Feixiang, HE Xiaoxiong, CHANG Runfa, XI Ye(497)

• Civil and Hydraulic Engineering •

Sensitivity analysis for forecasting model parameters of mine water inflow
..... WANG Keqi, LIU Peigui, TAO Yuezan, LI Fei, FAN Huihui(502)

Stability analysis of tide power generation platform by using AQWA software
..... CAO Mengmeng, WU Xutao, ZHU Haifeng(506)

Study of energy efficiency for temperature and humidity independent control with soil source heat pump system
based on bin method ZHU Jian, LIU Rao, YAO Yao, TANG Lingling(511)

万方数据

Stress-strain relationship for core concrete of improved composite T-shaped steel tube	CAO Bing, DAI Shaobin, HUANG Jun, TAO Li(515)
Numerical simulation analysis of deep foundation pit deformation by top-down construction method based on FLAC-3D	YANG Yifei, GUAN Qun, SUN Ruohan, GAO Ju, ZHANG Li(522)
Analysis of the effect of secondary loads on ultimate bearing capacity of concrete composite beam	ZHU Desun, SHENG Hongyu(528)
• Resources and Environmental Engineering •	
Assessment of heavy metal pollution in soil from an abandoned chemical plant	REN Wenhui, WU Wentao, CHEN Yu, WEN Guotao, PAN Chengrong, LIU Guijian(533)
Geochemical characteristics of spilite-ceratophyre in Shexian and its geological significance	YU Liangfan, MA Liang, ZHU Qiang, HU Zhaoqi(539)
• Biotechnology and Food Engineering •	
Research on one tomato gene involved in disease resistance	XU Wei, MIAO Min, TANG Xiaofeng, LIU Yongsheng(547)
• Management Science and Engineering •	
Event information structural model based on human-thing-context information fusion	REN Minglun, LI Wei(553)
Study of risk-averse supply chain coordination based on combined promotion efforts	WANG Ya, WANG Junping(559)
• Mathematics and Physics •	
Asymptotic stability condition of nonlinear impulsive systems	NI Yudong, LIU Wei, NI Hanqing, PENG Zhenyu(567)
Modeling of PBTI-induced circuit aging based on charge trapping-detrapping mechanism	LI Yang, YI Maoxiang, MIAO Yong, SHAO Chuan, DING Li(572)