

目次

智能车辆自动泊车路径跟踪的非光滑控制策略

江浩斌, 李臣旭, 马世典, 丁世宏, 张超 497

正丁醇/柴油 PAHs 简化机理的构建与仿真

王忠, 王鹏, 张美娟, 瞿磊 503

空气流量对低温等离子体再生 DPF 的影响

施蕴曦, 蔡忆昔, 王静, 徐辉, 濮晓宇, 顾林波 509

供油压力对电液可变气门系统压力波动的影响

韩志强, 赵家辉, 邱鹏, 田维, 韩伟强, 夏琦 516

某电动客车车身骨架的轻量化

高晋, 艾田付, 杨秀建, 沈琳清, 吴相稷 522

基于 Flowmaster 的汽车散热器结构分析与正交优化

唐爱坤, 乔方方, 王广基, 娄刘生, 潘剑锋 529

基于多块同位网格对管路流场的分区并行计算

蒋光彪, 钟海, 殷水平, 陈胜铭 536

纳米流体及分散剂对重力热管性能影响试验

王助良, 戴世佳, 王宏宇, 罗明, 黄彬, 马青 544

基于有限元仿真的刀具几何参数优化

安立宝, 刘思志 549

基于优化补偿控制的动态电压恢复器数字系统设计	黄永红, 杜立, 高敏, 周杰	555
流密码快速相关攻击综述	潘森杉, 夏文涛, 王良民	563
基于低秩和全变差正则化的图像压缩感知重构	杨枕, 封磊, 孙怀江, 孙叔森	571
基于 GPU 的 SVM 参数优化并行算法	唐美丽, 张劲松, 李璐, 马廷淮	576
基于分块和 NSCT-SVD 的彩色图像数字水印算法	张倩倩, 詹永照, 林涵阳	582
铁碳微电解预处理工艺参数响应面模型的构建与优化	陈志刚, 杨智迪, 蒋素英, 罗志军, 吴向阳, 张波	590
时间分辨免疫法检测镇江市内水样中酞酸二丁酯	朱方, 柴帅, 宾金坤, 杜道林	596
一种高选择性苯硫酚荧光探针的研制	韩志湘, 王春柳, 朱伯淞, 蔡春祥, 姜梦云	603
南疆高温大温差地区高速公路沥青路面结构适应性	赵学颖, 申爱琴, 马宝富	608
面层沥青混合料抗压回弹模量的取值	周雪艳, 马磊, 田宇翔, 王小庆	615

CONTENTS

Path tracking control of automatic parking for intelligent vehicle based on non-smooth control strategy
..... JIANG Haobin, LI Chenxu, MA Shidian, DING Shihong, ZHANG Chao(497)

Construction and simulation of *n*-butanol/diesel PAHs simplified mechanism
..... WANG Zhong, WANG Peng, ZHANG Meijuan, QU Lei(503)

Effect of air flow rate on diesel particulate filter regeneration by non-thermal plasma technology
..... SHI Yunxi, CAI Yixi, WANG Jing, XU Hui, PU Xiaoyu, GU Linbo(509)

Effects of oil pressure on pressure fluctuation of electro liquid variable valve system
..... HAN Zhiqiang, ZHAO Jiahui, QIU Peng, TIAN Wei, HAN Weiqiang, XIA Qi(516)

Lightweight on body frame of electric bus
..... GAO Jin, AI Tianfu, YANG Xiujian, SHEN Linqing, WU Xiangji(522)

Structure analysis and orthogonal optimization of automotive radiator based on Flowmaster
..... TANG Aikun, QIAO Fangfang, WANG Guangji, LOU Liusheng, PAN Jianfeng(529)

Parallel computing of pipeline flow based on multi-block collocated grid
..... JIANG Guangbiao, ZHONG Hai, YIN Shuiping, CHEN Shengming(536)

Effect of nano-fluid and dispersant on performance of gravity heat pipe
..... WANG Zhuliang, DAI Shijia, WANG Hongyu, LUO Ming, HUANG Bin, MA Qing(544)

Geometrical parameters optimization of cutting tools based on finite element simulation
..... AN Libao, LIU Sizhi(549)

Design and implementation of dynamic voltage restorer digital system based on optimal compensation control
..... HUANG Yonghong, DU Li, GAO Min, ZHOU Jie(555)

Survey of fast correlation attack of stream cipher
..... PAN Senshan, XIA Wentao, WANG Liangmin(563)

Image compressive sensing reconstruction based on low-rank and total variation regularization
..... YANG Guang, FENG Lei, SUN Huaijiang, SUN Quansen(571)

Optimization algorithm of SVM parallel parameters based on GPU
..... TANG Meili, ZHANG Jinsong, LI Lu, MA Tinghuai(576)

Digital watermarking algorithm for color images based on blocks and NSCT-SVD
..... ZHANG Qianqian, ZHAN Yongzhao, LIN Hanyang(582)

Construction and optimization of response surface model on iron-carbon micro-electrolysis pretreatment parameters
..... CHEN Zhigang, YANG Zhidi, JIANG Suying, LUO Zhijun, WU Xiangyang, ZHANG Bo(590)

Time-resolved fluorescence immunoassay for determination of dibutyl phthalate in water samples of Zhenjiang city
..... ZHU Fang, CHAI Shuai, BIN Jinkun, DU Daolin(596)

Development of a novel fluorescent probe for thiophenol with high selectivity
..... HAN Zhixiang, WANG Chunliu, ZHU Bosong, CAI Chunxiang, JIANG Mengyun(603)

Adaptability of asphalt pavements to high temperature and large temperature difference in southern Xinjiang
..... ZHAO Xueying, SHEN Aiqin, MA Baofu(608)

Value of compressive resilient modulus of asphalt mixture in surface layer
..... ZHOU Xueyan, MA Biao, TIAN Yuxiang, WANG Xiaoqing(615)