

目 次

· 机械工程 ·

- 基于自由变形技术的 Ahmed 模型气动减阻优化 汪怡平 郭承奇 王涛 等(221)
轴向柱塞泵滑靴副动压承载特性研究 胡纪滨 赵红梅 荆崇波(229)
基于烧伤控制的 18CrNi4A 材料齿轮磨削工艺研究 王延忠 刘旸 王段 等(235)
基于碱法机理减少船舶 CO₂ 排放研究 王忠诚 刘晓宇 周培林 等(241)
燃气涡轮增压系统燃烧室设计 刘洋 马朝臣(247)
基于液电馈能减振器的整车操纵稳定性仿真 邹俊逸 过学迅 方志刚 等(255)
电子液压制动系统耗能特性影响因素分析 胡东海 何仁 徐晓明 等(261)
重型牵引车后桥振动疲劳分析及试验研究 张志远 刘玉梅 陈涛 等(267)

· 信息与控制 ·

- 基于任务映射与缓存划分的 WCRT 优化方法 甘志华 张铭泉 古志民 等(272)
基于改进凸分解的手势识别 潘志庚 王顺婷 姚争为(279)
基于三维模型的考古线图提取方法 周明全 李璨 解国栋 等(286)
基于轮廓曲线和特征区域的秦俑碎块匹配算法 赵夫群 周明全 耿国华(293)
基于图像分析的堆浸铀矿石颗粒参数辨识 宁志刚 郝光鹏 程雄 等(300)
高可靠 In-VM 隐藏进程对抗检测方法 闫广禄 罗森林 刘望桐 等(305)

· 光学与电子 ·

- 基于非圆信号的互质阵列欠定 DOA 估计方法 吴晨曦 张旻 王可人(313)
一种基于双基线旋转的改进干涉仪定位算法 张金秀 陶海红 王渊(320)

· 生命科学 ·

- 用蒙特卡罗模拟方法研究环氧乙烷在 HZSM-5 分子筛上的吸附行为 吴琼 施志强 戴荣继 等(325)

TRANSACTIONS OF BEIJING INSTITUTE OF TECHNOLOGY

No. 3 2018 Mar.

Vol. 38 (Sum No. 277)

CONTENTS

Mechanical Engineering

Aerodynamic Drag Reduction of Ahmed Model Based on Free

Form Deformation WANG Yi-ping GUO Cheng-qi WANG Tao, et al(221)

Hydrodynamic Lubrication Characteristics of Slipper /Swash Plate

Pair in Axial Piston Pumps-Theory and Experiment HU Ji-bin ZHAO Hong-mei JING Chong-bo(229)

Research on Gear Gridding Process of Material 18CrNi4A Based on

Burn Control WANG Yan-zhong, LIU Yang, WANG Duan, et al(235)

Reducing CO₂ Emission from Ship Based on Alkali

Mechanism WANG Zhong-cheng, LIU Xiao-yu, ZHOU Pei-lin, et al(241)

Design of Combustor for Gas Turbocharging System LIU Yang MA Chao-chen(247)

Simulation of Vehicle Handling and Stability Based on

Hydraulic-Electrical Energy Regenerative Shock

Absorber ZOU Jun-yi GUO Xue-xun FANG Zhi-gang, et al(255)

Analysis on Influencing Factors of Energy Consumption

Characteristics of Electronic Hydraulic Braking System HU Dong-hai HE Ren XU Xiao-ming, et al(261)

Vibration Fatigue Analysis and Experimental Study of Heavy Duty

Truck Rear Axle ZHANG Zhi-yuan, LIU Yu-meи, CHEN Tao, et al(267)

Informatics and Control

WCRT Optimization Scheme Based on Task Mapping and Cache

Partitioning GAN Zhi-hua, ZHANG Ming-quan, GU Zhi-min, et al(272)

Hand Gesture Recognition Based on an Improved Convex Shape

Decomposition PAN Zhi-geng WANG Shun-ting YAO Zheng-wei(279)

Extraction Method of Archaeological Line Graph Based on

3D Model ZHOU Ming-quan LI Can XIE Guo-dong, et al(286)

Terracotta Warrior Blocks Matching Algorithm Based on Contour

Curve and Feature Region ZHAO Fu-qun, ZHOU Ming-quan, GENG Guo-hua(293)

Parameters Identification of Particle Size of Heap Leaching

Uranium Ore Based on Image Analysis NING Zhi-gang HAO Guang-peng CHENG Xiong, et al(300)

A Highly Reliable In-VM Hidden Process Detection

Countermeasure YAN Guang-lu LUO Sen-lin LIU Wang-tong, et al(305)

Optics and Electronics

Underdetermined DOA Estimation for Coprime Array Based on

Noncircular Signal WU Chen-xi ZHANG Min WANG Ke-ren(313)

An Improved Locating Algorithm Based on Double Baselines Rotating

Interferometer ZHANG Jin-xiu, TAO Hai-hong, WANG Yuan(320)

Chemical Engineering and Materials Science

Monte Carlo Simulation for the Adsorption Behavior of Ethylene

Oxide on HZSM-5 Zeolite WU Qiong LUA N Zhi-qiang DAI Rong-ji, et al(325)