

目次

能源与动力

电解水制氢储能与 Allam 循环发电集成系统的热力学特性分析

..... 李喆, 王可可, 王顺森, 李博, 颜晓江, 王江峰 (1)

平面叶栅多凹槽叶顶倾斜圆柱孔气膜冷却与气动特性研究

..... 贾哲, 李冯, 张韦馨, 刘钊, 石葵, 丰镇平 (10)

翼型下表面柔性襟翼流动控制机理研究

..... 孟俊苗, 韩佳坤, 陈刚 (22)

叶栅稠密度对多叶片轴流泵叶轮内外特性的影响

..... 杨从新, 赵森, 郭艳磊, 吕天智 (31)

液氧涡轮泵阻尼密封设计与动力学特性研究

..... 靳志鸿, 胡锦涛, 李志刚, 李军 (43)

基于跨声速膨胀凝结流动的低温氮气均质成核与异质成核

..... 胡文虎, 孙皖, 牛璐, 彭婧, 蒋卓君, 潘良明 (54)

低温贮箱大热流下两相流态可视化试验

..... 瞿森, 王磊, 孙培杰, 严立, 王其晓, 厉彦忠 (62)

甲醇替代率对甲醇/柴油双直喷发动机性能的影响

..... 尹晓军, 任宪丰, 栾建伟, 段浩, 汪映, 曾科 (71)

二甲醚掺混对氨高温着火延迟期的影响

..... 张齐英, 姜雪, 刘曦宇, 张天琦, 黄佐华 (79)

耦合颗粒物传感器的柴油机颗粒捕集器故障诊断策略研究

..... 汤东, 李天祥, 施盛耀 (87)

双列圆锥滚子轴承拟静力学建模和刚度计算分析

..... 张进华, 朱光浩, 黎铭, 洪军, 方斌 (98)

能量视角下的盾构机刀盘的结构变异重构设计

..... 刘宏磊, 宋晨旭, 鲁睿, 李宝童, 洪军 (109)

RV减速器摆线针齿传动机构线外啮入冲击研究

..... 纪姝婷, 李佳林, 张跃明 (123)

智能移动终端室内异步声音定位方法

..... 张磊, 刘江, 冯雪, 屈秉男, 何为, 胡志新 (133)

永磁同步电机新型有效磁链固定时滑模扰动辨识策略

..... 刘思源, 刘凌, 靳东松 (144)

孤立电网中风电和储能的联合非线性鲁棒控制

..... 韩金龙, 杜正春, 江晗, 袁泉添 (152)

具有激励相容和能源共享特性的混合储能组合拍卖

..... 吴雄, 麻淞, 何雯雯, 刘炳文, 张子裕, 王鹏磊 (162)

多普勒雷达下的机动多目标跟踪算法

..... 国强, 卢宇翀, 戚连刚, KALIUZHNY Mykola (174)

用于图像分类的深度卷积神经网络中的空间分割注意力模块

..... 王方, 乔瑞萍 (185)

利用肌肉协同研究上肢简单和复杂运动的关联性

..... 黄永欣, 文斌, 毛菁菁, 姚瑞, 尹孟奇, 徐进 (193)

CONTENTS

Energy and Power

Thermodynamic Analysis of an Integrated System Based on Electrolytic Water Hydrogen Production and Energy Storage and Allam Cycle Power Generation
..... *LI Zhe, WANG Keke, WANG Shunsen, LI Bo, YAN Xiaojiang, WANG Jiangfeng* (1)

Investigation on Film Cooling and Aerodynamic Performance of the Multi-Cavity Tip with Inclined Film Holes in a Linear Turbine Cascade
..... *JIA Zhe, LI Feng, ZHANG Weixin, LIU Zhao, SHI Yan, FENG Zhenping* (10)

Research on the Flow Control Mechanism of a Flexible Flap on the Airfoil Lower Surface
..... *MENG Junmiao, HAN Jiakun, CHEN Gang* (22)

Study on the Influence of Cascade Density on Internal and External Characteristics of Multi-Blade Axial-Flow Pump Impeller
..... *YANG Congxin, ZHAO Sen, GUO Yanlei, LÜ Tianzhi* (31)

Investigation on the Structural Design and Rotordynamic Characteristics for the Damper Seal in a Liquid Oxygen Turbopump
..... *JIN Zhihong, HU Jinhua, LI Zhiqiang, LI Jun* (43)

Study on Homogeneous and Heterogeneous Nucleation of Cryogenic Nitrogen Based on Transonic Expansion Condensation Flow
..... *HU Wenhui, SUN Wan, NIU Lu, PENG Jing, JIANG Zhuojun, PAN Liangming* (54)

Visualization Test Study on Two-Phase Flow Behaviors Inside Cryogenic Tank Under High Heat Flux
..... *QU Miao, WANG Lei, SUN Peijie, YAN Li, WANG Qixiao, LI Yanzhong* (62)

Effect of Methanol Energy Substitution Ratio on Performance of Methanol/Diesel Dual-Direct Injection Engine
..... *YIN Xiaojun, REN Xianfeng, LUAN Jianwei, DUAN Hao, WANG Ying, ZENG Ke* (71)

Effects of Dimethyl Ether Addition on the High Temperature Ignition Delays of Ammonia
..... *ZHANG Qiying, JIANG Xue, LIU Xiyu, ZHANG Tianqi, HUANG Zuohua* (79)

Research on Fault Diagnosis Strategy of Diesel Particulate Filter Coupled with Particle Sensor
..... *TANG Dong, LI Tianxiang, SHI Shengyao* (87)

~~~~~

Quasi-Static Modeling and Stiffness Calculation Analysis of Double Row Tapered Roller Bearings  
..... *ZHANG Jinhua, ZHU Guanghao, LI Ming, HONG Jun, FANG Bin* (98)

Structural Variation and Reconstruction Design of Tunnel Boring Machine Cutterhead from the View of Energy  
..... *LIU Honglei, SONG Chenxu, LU Rui, LI Baotong, HONG Jun* (109)

Study on Off-Line Meshing-in Impact Characteristics of Cycloid-Pin Gear Drive Mechanism of RV Reducer  
..... *JI Shuting, LI Jialin, ZHANG Yueming* (123)

Indoor Acoustic Asynchronous Positioning for Smart Mobile Devices  
..... *ZHANG Lei, LIU Jiang, FENG Xue, QU Bingnan, HE Wei, HU Zhixin* (133)

A Novel Active Flux Fixed-Time Sliding Mode Disturbance Identification Method for Permanent Magnet Synchronous Motor  
..... *LIU Siyuan, LIU Ling, JIN Dongsong* (144)

Combined Nonlinear Robust Control of Wind Power and Energy Storage in Isolated Grids  
..... *HAN Jinlong, DU Zhengchun, JIANG Han, YUAN Xiaotian* (152)

Hybrid Energy Storage Portfolio Auction Based on Vickrey-Clarke-Groves Mechanism and Energy Sharing  
..... *WU Xiong, MA Song, HE Wenwen, LIU Bingwen, ZHANG Ziyu, WANG Penglei* (162)

Maneuvering Multi-Target Tracking Algorithm Based on Doppler Radar  
..... *GUO Qiang, LU Yuchong, QI Liangang, KALIUZHNY Mykola* (174)

SPAM: Spatially Partitioned Attention Module in Deep Convolutional Neural Networks for Image Classification  
..... *WANG Fang, QIAO Ruiping* (185)

Research on the Correlation Between Simple and Complex Movements of Upper Limbs Using Muscle Synergy  
..... *HUANG Yongxin, WEN Bin, MAO Jingjing, YAO Rui, YIN Mengqi, XU Jin* (193)