

TABLE OF CONTENTS

目 录

疏水表面上固着双液滴相互作用的实验研究 Experimental Study on the Interaction of Sessile Double Droplets on Hydrophobic Surface	
严晗, 单彦广, 翁志浩.....	475
超重力下气泡聚并破碎特性的数值分析 Numerical Analysis of Bubble Coalescence and Breakup Characteristics under High Gravity	
陈自豪, 郭雪岩.....	487
针式形磁性复合流体抛光工具设计及工艺试验 Design and Process Test of Needle-Shaped Magnetic Composite Fluid Polishing Tool	
刘剑, 彭婷, 王璐璐.....	498
基于离散元法的煤颗粒摩擦系数标定研究 Research on Calibration of Coal Particle Friction Coefficient Based on Discrete Element Method	
张立祥, 郑娃, 王亚明.....	508
中置电动助力自行车减速器的振动特性研究 Research on the Vibration Characteristics of the Speed Reducer of Mid-Mounted Electric-Assisted Bicycle	
崔建昆, 胡汉林.....	516
新能源汽车电池回收中矿产资源的可供性研究 Study on the Availability of Mineral Resources in Battery Recycling of New Energy Vehicles	
宋鑫, 陈慧宇, 徐菊.....	525
基于模糊理论的频率综合器故障树分析 Fault Tree Analysis of Frequency Synthesizer Based on Fuzzy Theory	
李华府.....	535
树木喷涂机机械臂的设计及优化 Design and Optimization of the Robotic Arm of the Tree Spraying Machine	
郭洋洋, 李珂.....	541
基于灰色关联分析与逐步回归模型对乙醇偶合制备 C4 烯烃的研究 Research on Preparation of C4 Olefins by Coupling of Ethanol Based on Grey Relational Analysis and Stepwise Regression Model	
任梦圆, 杨赵凝, 石璇.....	548
基于有机朗肯循环系统的多管式相变蓄热器的设计 Design of Multi-Tube Phase Change Heat Accumulators Based on Organic Rankine Cycle Systems	
惠梦阁, 赵军.....	562

空气质量预报系统的效果评估 Evaluation of the Effect of Air Quality Forecasting System 蔡哲贵, 丁佳铭, 丁佳乐.....	572
双圆弧谐波减速器柔轮结构优化分析 Structural Optimization Analysis of Flexspline of Double-Arc Harmonic Driver 邢祚祥.....	584
基于 VOF 模型的 PEMFC 蛇形流道气液两相流动模拟 Simulation of Gas-Liquid Two-Phase Flow in PEMFC Serpentine Channel Based on VOF Model 储旭, 郭雪岩.....	596
基于改进 DMPs 的下肢助行机器人步行楼梯的轨迹规划 Trajectory Planning of Lower Limb Walking-Assistant Robot Walking Stairs Based on Improved DMPs 朱文琪, 郭旭东, 肖建如, 许炜, 钟凤琦, 贺泉森.....	606
自然蒸发下固着双液滴内部流动的二维数值模拟 Two-Dimensional Numerical Simulation of Internal Flow of Sessile Double Droplets under Natural Evaporation 常浩东, 单彦广.....	616
基于多目标优化遗传算法的层合板铺层优化设计 Optimization Design of laminate Ply Based on Multi-Objective Optimal Genetic Algorithm 温辉, 沈明旭.....	628
基于 Abaqus 的 V 型发动机曲轴的模态分析与结构优化 Modal Analysis and Structural Optimization of V-Engine Crankshaft Based on Abaqus 白天祺, 王艳.....	636
空气质量预报二次建模 Secondary Modeling of Air Quality Forecasting 薛浩, 岳坤明, 魏炳胜.....	648
基于 MATLAB/GUI 的浮空器囊瓣智能设计系统开发 Development of an Intelligent Design System for the Aerostat Segmentation Based on MATLAB/GUI 何超, 宋淼.....	663
基于风幕控尘除尘的综掘面粉尘治理研究 Study on Dust Control of Comprehensive Excavation Face Based on Air Curtain Dust Control and Dust Removal 张立祥, 方振.....	675
基于 ABAQUS 的某机械连杆有限元分析及拓扑优化设计 Finite Element Analysis and Topology Optimization Design of a Mechanical Connecting Rod Based on ABAQUS 叶童, 何文杰, 沈瞳.....	684

换热网络优化的换热单元拆分策略 Heat Exchanger Unit Division Strategy of Heat Exchanger Network Optimization	
汪豪, 崔国民, 徐玥, 肖媛, 张冠华.....	693
双盘转子碰摩故障动力学特性分析 Analysis of Dynamic Characteristics of Rub-Impact Fault of Double-Disk Rotor	
张扬, 南国防, 朱玉洁.....	707
智能车间 AGV 运送任务序列分配及路径规划 Task Sequence Allocation and Path Planning of AGV Transportation in Intelligent Workshop	
张海辉, 曹佩融, 程胜明, 王彦珂, 王雅君, 田坤, 刘小齐, 孙海祺.....	718
人群仿真模型综述 Overview of Crowd Simulation Models	
郑子泽, 郭江涛.....	725
基于 XGBoost 的双目标零件类别划分技术与优化 Classification Technology and Optimization of Double Objective Parts Based on XGBoost	
朱露, 仲梁维.....	734
一种高精度太阳能跟踪控制系统设计与实现 Design and Implementation of a High-Precision Solar Tracking Control System	
祁琛阳, 王成龙, 吴泽睿, 李东锴.....	744
结合个体情绪因素的人群运动仿真 Simulation of Crowd Motion Combined with Individual Emotional Factors	
郑子泽.....	755
基于多项式拟合与多元线性回归模型对乙醇偶合制备 C4 烯烃的研究 Research on Preparation of C4 Olefin by Ethanol Coupling Based on Polynomial Fitting and Multiple Linear Regression Model	
耿超洋, 邓文艺, 郭海菲.....	768
M-CVaR 准则下具有风险偏好的双渠道供应链决策分析 Decision Analysis of Dual-Channel Supply Chain with Risk Preference under M-CVaR Criterion	
吴福田, 党亚峥, 白妮蔓.....	781
基于 CFD 的游泳比赛粘性阻力分析 The Analysis of Adhesive Resistance in Swimming Competition Based on CFD	
张智虎, 郑明刚, 曲诚.....	797
某货车车架有限元分析 Finite Element Analysis of a Truck Frame	
王虎, 黄孟.....	810
基于条件算法的飞机起落架扭力臂的拓扑优化 Topology Optimization of Torsion Arm of Aircraft Landing Gear Based on Conditional Algorithm	
丁超杰.....	820

基于改进多目标差分进化的蒸汽动力系统碳排放和生产成本优化 Optimization of Carbon Emission and Production Cost of Steam Power System Based on Improved Multi-Objective Differential Evolution	
吴长华, 李泽秋.....	829
基于 K-Means 聚类分析的汽车行驶工况构建 Construction of Vehicle Driving Cycle Based on K-Means Cluster Analysis	
苏晓雯, 董平军.....	842
基于 SEM 模型对网红营销模式下顾客满意度的调查研究 Investigation and Research on Customer Satisfaction under the Internet Celebrity Marketing Pattern Based on SEM Model	
鲁柯, 杜凤娇.....	852
基于 Lasso 回归和神经网络的辛烷值损失预测模型 Octane Value Loss Prediction Model Based on Lasso Regression and Neural Network	
崔颖, 马俊.....	864
基于森林火灾的生物迁移仿真研究综述 A Review of Simulation Research on Biological Migration Based on Forest Fire	
王诗颖, 欧阳智, 杜逆索.....	877
超高速电机结构设计及建模仿真分析 Structural Design and Modeling Simulation Analysis of Ultra-High-Speed Motor	
陈海军, 尹丛勃, 经涛, 杨文正.....	886
紧急情况下商圈地铁站的行人疏散建模及策略研究 Modeling and Strategies for Pedestrian Evacuation from Subway Stations in Commercial Areas under Emergency Situation	
马闪闪, 李兴莉, 郑杰, 温莎莎.....	895
基于多元线性回归的污泥水热炭燃料特性研究 Research on Fuel Properties of Sewage Sludge Derived Hydrochar Based on Multiple Linear Regression	
刘维科, 郑晓园, 应芝, 王波, 豆斌林.....	902
阀门套筒孔群对蒸汽阀内流动及噪声特性影响研究 Study on Flow and Noise Characteristics of Valve Sleeve Holes in Steam Valves	
欧阳志雄, 张文清.....	916