

**TABLE OF CONTENTS****目 录****修井机井架轻量化研究发展综述****Light Weighting Research Development Review of Work-Over Derrick**

冯云, 张红, 潘勇博.....443

**降低 GD121A 卷烟机烟支接装空头率****To Reduce the Short Rate of GD121A Cigarette Machine**

孙云杰, 汪雨伦, 肖炫铭.....449

**基于铸管行业 MES 系统的应用研究****Application Research of MES System Based on Cast Pipe Industry**

林雪川, 暴延强, 翟金龙, 梅燕娜.....462

**柔性表面微结构减阻效果研究****Research on Drag Reduction Effect of Flexible Surface Structure**

诸敏瑛, 于海洋, 李子繁, 陈熙, 邵朱芸.....471

**多功能智能座椅的设计与仿真****Design and Simulation of Multifunctional Intelligent Seat**

陈子杰, 肖启巡, 黄景德.....479

**某重卡驾驶室 A 柱撞击仿真分析及优化****A Pillar Crash Simulation and Optimization of a Heavy Truck CAB**

周利辉, 赵华, 何志辉, 谷永强.....487

**极地邮轮动力技术研究综述****The Review of Polar Cruise Power Technology Research**

周晖, 邵朱芸, 童曙康, 吴启航, 余思远.....494

**基于船用风管连接件的结构设计与减震降噪研究****Research on Structural Design and Vibration Reduction and Noise Reduction Based on Marine Air Duct Connectors**

张会霞, 朱可涵, 杨泽琨, 徐艺萌, 许耀云, 孙翌乔.....502

**基于 28 nm 工艺的 SOC 芯片时钟树优化****SOC Chip Clock Tree Optimization Based on 28 nm Process**

侯宇, 王爽.....507

**非线性超声对不同塑性变形量铝合金的检测研究****Study on Non-Linear Ultrasonic Testing of Aluminum Alloy with Different Plastic Deformation**

张晓敏.....514

**IATF16949:2016 质量管理体系在曲轴机加工中的应用**

**The Application of the IATF16949:2016 Quality Management System in the Crankshaft Machining**

师路骐.....521

**回转式给料装置在烟草行业的应用**

**Application of Rotary Feeding Device in Tobacco Industry**

汤子龙.....527

**MATLAB 可视化技术在工程优化设计中的应用研究**

**Visualization Technology on Engineering Optimal Design Based on MATLAB**

李克勤, 姜翠香.....534

**巴哈赛车中央制动减速器的设计与优化**

**Design and Optimizing of Baja Car Central Brake Reducer**

马健, 王颖初, 宫皓斌, 宋志, 王宏睿, 陈佩江.....546

**鲜食玉米摘穗台茎秆喂入装置设计及优化**

**Design and Optimization of Stalk Feeding Device of Fresh Corn Picking Table**

董学虎, 张培, 陈斌玺, 陈大穗, 陈召, 陈政梅, 游潇, 刘俊孝.....555

**家用运动鞋清洗机的研发**

**Research and Development of Household Sneaker Washing Machine**

高傲嵩, 董港培, 韦衡冰, 黎柱源.....565