

ISSN 1006-0316

CN 51-1131/TH

# MACHINERY

# 机械

2019年 第46卷 第11期

# 11

No. 11  
VOLUME 46

- 主管：四川省经济和信息化厅
- 主办：四川省机械研究设计院



ISSN 1006-0316



9 771006 031190

定价：10.00元

- 中国核心期刊（遴选）数据库收录期刊
- 中国学术期刊综合评价数据库统计源期刊
- 中国学术期刊网络出版总库收录期刊
- 中文科技期刊数据库收录期刊
- CNKI系列数据库收录期刊
- 超星期刊域出版平台数据库收录期刊

万方数据

### 设计与研究

- 1 面向大型复材板类零件自动钻铆的通孔深度在线测量研究 陶冶, 王新, 吴年汉
- 8 压力容器缺陷安全评定研究进展和衰减路径速度积方法 谢阳, 龙伟, 赵波, 等
- 16 基于几何法的空间连杆机构三位置函数综合 袁佩瑶, 林松, 王瀚超
- 22 基于ARM的PET瓶分离控制系统设计 吕义钊, 任德均, 陈崑, 等
- 29 基于S型无碳小车空间曲柄摇杆的数学模型和参数分析设计 舒畅盈, 窦方健, 周宇豪, 等
- 35 关节臂在光热项目摇摆支架测量中的应用 于明, 李智斌, 杨琪, 等

### 零部件分析与设计

- 40 基于磨损失效评估的人字闸门底枢摩擦副设计软件开发 赵新泽, 李林, 郭文涛, 等
- 46 加压转鼓过滤机滤叶的有限元分析及结构优化 刘凡, 陈志, 王金红, 等
- 52 基于遗传算法对液压阀用磁流变液阻尼器的优化设计 杨智超, 邓斌

### 现代管理技术

- 58 基于FlexSim的露天矿卡车调度系统建模方法 高宇, 赵波
- 65 基于成熟度的舰船厂所协同设计技术 卢永进, 吴盛, 王玫

### 现代制造技术

- 71 用于复杂结构氧化铝陶瓷零件三维尺寸检测的弹性工装夹具研制 范玉龙, 游小凤, 涂万里, 等
- 75 保证铝合金齿轮箱体加工精度方法的研究 郭学庆, 李维莹, 李颖斌

### 版权声明

为适应我国信息化建设, 扩大本刊及作者知识信息交流渠道, 本刊已被中国学术期刊网络出版总库及CNKI系列数据库、中国核心期刊(遴选)数据库、中文科技期刊数据库、超星期刊域出版平台数据库等收录, 其作者文章著作权使用费与本刊稿酬一次性给付。如作者不同意文章被收录, 请在来稿时向本刊声明, 本刊将做适当处理。

作者所投稿件文责自负, 如有版权纠纷与本刊无关。

### 网上数据库

中国学术期刊(网络版) & 中国学术期刊网络出版总库  
CNKI系列数据库  
中国学术期刊综合评价数据库  
中国核心期刊(遴选)数据库  
中文科技期刊数据库  
超星期刊域出版平台数据库

- 1 Research on Online Through-Hole Depth Measurement of Large-Scale Composite Board Parts for Automatic Drilling and Riveting  
TAO Ye, WANG Xin, WU Nianhan
- 8 Research Advance on Safety Assessment of Pressure Vessel Defects and the Method Based on the Product of Attenuation Path and Velocity  
XIE Yang, LONG Wei, ZHAO Bo, et al.
- 16 Function Synthesis of Spatial Linkage Mechanism with Three Finite Positions Based on Geometric Method  
YUAN Peiyao, LIN Song, WANG Hanchao
- 22 Design of PET Bottle Separation Control System Based on ARM  
LV Yizhao, REN Dejun, CHEN Kun, et al.
- 29 Mathematical Model and Parameter Analysis on Spatial Crank Rocker of Carbon-Free Car Based on S-type  
SHU Yangying, DOU Fangjian, ZHOU Yuhao, et al.
- 35 Application of Joint Arm in Solar-Thermal Power Project Boomerang Measurement  
YU Ming, LI Zhibin, YANG Qi, et al.
- 40 Development of Design Software for Bottom Hinge Friction Pairs of Minter Gate Based on Evaluation of Wear and Failure  
ZHAO Xinze, LI Lin, GUO Wentao, et al.
- 46 Finite Element Analysis and Structural Optimization of the Filter Leaf in Pressurized Drum Filter  
LIU Fan, CHEN Zhi, WANG Jinhong, et al.
- 52 Optimization of Magnetorheological Fluid Damper for Hydraulic Valves Based on Genetic Algorithm  
YANG Zhichao, DENG Bin
- 58 A Modeling Method of Truck Dispatching Systems in the Open-Pit Mine Based on FlexSim  
GAO Yu, ZHAO Bo
- 65 Research on Collaborative Design Technology between Institute and Shipyard Based on Maturity Degree  
LU Yongjin, WU Sheng, WANG Mei
- 71 Designing an Elastic Fixture for the Measurement of Dimensions of a Complex Alumina-Ceramic Part  
FAN Yulong, YOU Xiaofeng, XU Wanli, et al.
- 75 Study on the Method of Guaranteeing the Machining Accuracy of Aluminum Alloy Gear Box  
GUO Xueqing, LI Weiyong, LI Yingcheng

## Copyright Statement

MACHINERY has been included in Chinese Academic Journal Network Publishing Database(CAJNPD) and series database of CNKI, the core Chinese periodicals (selection) database, Chinese Sci-tech Journals Database, and the database of Chaoxing publication platform. We offer a one-time payment of the author's copyright royalties and remuneration. If the author disagrees with the inclusion of the article, please state to us when submitting the article and we will handle it appropriately.

Authors are accountable for their articles. We assume no responsibility for any copyright disputes

## Online Database

- Chinese Academic Journal (Network Edition) & Chinese Academic Journal Network Publishing Database (CAJNPD)
- Series Database of CNKI
- Chinese Academic Journals Comprehensive Evaluation Database of(CAJCED)
- The Core Chinese Periodicals (Selection) Database
- Chinese Sci-tech Journals Database
- The Database of Chaoxing Publication Platform