

# 目次

## Contents

### 专题综述

- 动臂变幅起重机安全拉索安全性研究\* ..... 刘伟 张春光 屈福政 (1)  
Research on security of safety cable for luffing jib crane\* ..... Liu Wei, Zhang Chunguang, Qu Fuzheng  
起重设备的嵌入式数据采集系统研究\* ..... 赵炯 于学海 周奇才 熊肖磊 杨天豪 (4)  
Research on embedded data acquisition system of lifting equipment\*  
..... Zhao Jiong, Yu xuehai, Zhou Qicai, Xiong Xiaolei, Yang Tianhao

### 新产品·新技术

- 桥、门式起重机的轻量化和智能化需求及发展状况\* ..... 常中龙 刘静 袁哲 (9)  
Demands for light weighting and intelligence of bridge and gantry cranes and development\*  
..... Chang Zhonglong, Liu Jing, Yuan Zhe  
基于层次分析理论的岸边集装箱起重机风险评估方法研究 ..... 丁高耀 (14)  
Analytic hierarchy theory based research on risk evaluation method of query-side container crane  
..... Ding Gaoyao  
港口起重机拉杆受力调节方案 ..... 刘平平 (19)  
Scheme for adjusting stress on tension bar of port crane ..... Liu Pingping  
一种基于贝叶斯网络的桥式起重机故障诊断方法 ..... 唐艳同 黄超亮 陈水龙 姜金杰 (22)  
Bayesian network based fault diagnosis method applicable to bridge crane  
..... Tang Yantong, Huang Chaoliang, Chen Shuilong, Jiang Jinjie  
一种新型陶瓷改向滚筒的应用 ..... 沈益军 李林 于磊 杨宏斌 (27)  
Application of new ceramic bend pulley ..... Shen Yijun, Li Lin, Yu Lei, Yang Hongbin  
可移动驾驶室在起重机上的应用 ..... 油磊 陈莉 (28)  
Application of removable cab in crane ..... You Lei, Chen Li  
单机构交替工作双吊点电动葫芦的设计 ..... 杨超 (31)  
Design of twin-lift electric hoist with single mechanism alternatively operating ..... Yang Chao

### 设计·计算

- 低速大扭矩安全制动器测试装置的设计\* ..... 顾旭波 李云飞 苏文胜 百坚毅 (33)  
Design of testing device for low-speed large-torque safety brake\*  
..... Gu Xubo, Li Yunfei, Su Wensheng, Bai Jianyi  
偏载平台智能同步提升系统的设计 ..... 齐同钦 钱光浩 徐施翻 (38)  
Design of intelligent synchronous lifting system for eccentric loading platform  
..... Qi Tongqin, Qian Guanghao, Xu Shihe  
电磁振动给料器的设计 ..... 王高峰 王艳平 李光辉 (43)  
Design of electromagnetic vibrating feeder ..... Wang Gaofeng, Wang Yanping, Li Guanghui  
基于集装箱结构的移动式商店设计 ..... 马嘉启 孙海燕 孟庆兵 王卓 江卫 (46)  
Design of mobile store based on container structure  
..... Ma Jiaqi, Sun Haiyan, Meng Qingbing, Wang Zhuo, Jiang Wei  
压水堆核电厂新燃料升降机运行模式与控制流程研究 ..... 李雷 (49)  
Research on operation mode and control process of new fuel elevator for pressurized water reactor  
nuclear power plant ..... Li Lei  
基于网络的电梯远程监控系统的设计与实现 ..... 李蓓蓓 (53)  
Design and realization of remote elevator monitoring system based on network ..... Li Beibei  
分析·研究

- 新街煤矿斜井隧道物料运输车选型分析\* ..... 戴文浩 管会生 周春华 王默 (57)  
Analysis on selection of material truck in inclined-shaft tunnel of Xinjie Coal Mine\*  
..... Dai Wenhao, Guan Huisheng, Zhou Chunhua, Wang Mo  
港口起重机司机室人机工程现状及优化研究\* ..... 孙建锐 (62)  
Research on status quo and optimization of human-machine engineering for cab of port crane\* ..... Sun Jianrui

- 铜始极片剥离时的应力与变形分析 ..... 蒋龙飞 孙东明 王天兵 张宇飞 王立铮 白雪原 (66)  
 Analysis of stress on and deformation of copper starting sheet at the time of stripping  
 ..... Jiang Longfei, Sun Dongming, Wang Tianbing, Zhang Yufei, Wang, Lizheng, Bai Xueyuan
- 14.93 m 泥水盾构一次管片吊机主机架有限元分析\* ..... 李超军 黄松和 (69)  
 Finite element analysis on mainframe of 14.93 m slurry shield single-segment crane  
 ..... Li Chaojun, Huang Songhe
- 自动扶梯的工作级别划分 ..... 涂春磊 李向东 孙民 (74)  
 Classification of working level of escalator ..... Tu Chunlei, Li Xiangdong, Sun Min
- 基于 EDEM 软件的单螺杆离散元模拟仿真与分析 ..... 李勇 刘伟冬 (78)  
 Discrete element simulation and analysis of single-screw spiral conveyor based on EDEM software  
 ..... Li Yong, Liu Weidong
- 钢丝绳电动葫芦导绳器的研究及相关检验标准的探讨 ..... 石琪晟 (82)  
 Study on rope guide of electric wire rope hoist and discussion on related inspection standards ... Shi Qisheng
- 使用·维修**
- 桥式起重机啃轨的成因分析及处理 ..... 勾通 陈延径 郝鹏飞 (84)  
 Cause analysis and treatment of rail gnawing existing in bridge crane  
 ..... Gou Tong, Chen Yanjing, Hao Pengfei
- 测试·试验**
- 电磁圆盘式制动器的校核计算 ..... 梁有明 陈峰 (87)  
 Checking calculation of electromagnetic disc brake ..... Liang Youming, Chen Feng
- 安全·检测**
- 新标准下冶金起重机制动器控制回路检验 ..... 仇佳捷 柯韬 虞伟杰 陈岳霖 (89)  
 Discussion on inspection of brake control circuit of metallurgy crane under new standard  
 ..... Qiu Jiajie, Ke Tao, Yu Weijie, Chen Yuelin
- 干式离合器的点燃危险评定及其防爆措施 ..... 刘鑫 王新华 梁峻 汤鹏 谢小鹏 (93)  
 Assessment on ignition hazard of dry clutch and explosion-proof measures  
 ..... Liu Xin, Wang Xinhua, Liang Jun, Tang Peng, Xie Xiaopeng
- 安装·调试**
- 自行式移动电源车在中小型装船机上的应用 ..... 周亦民 (97)  
 Application of self-propelled mobile power trunk in small and medium-sized ship loader ..... Zhou Yimin
- 特种桥面起重设备的拼装方案研究与实践 ..... 杨荣圣 彭琳琳 谢德宽 (99)  
 Research on assembly scheme of special bridge lifting equipment and practices  
 ..... Yang Rongsheng, Peng Linlin, Xie Dekuan
- 设备·技术**
- 浅谈 CSP350-20+25 排料机 ..... 尚飞 (104)  
 Discussion on CSP350-20+25 discharger ..... Shang Fei
- 节能·环保**
- 粉煤灰气力输送直接装船系统 ..... 李新生 (107)  
 Pneumatic fly ash conveying and direct loading system ..... Li Xinsheng
- 故障·分析**
- T 应力对复合型断裂韧度的影响 ..... 石涌超 陈昆 刘飞 黄丕帅 (111)  
 Influence of T-stress on toughness of mixed mode fracture  
 ..... Shi Yongchao, Chen Kun, Liu Fei, Huang Pishuai
- 技术·改造**
- 臂式斗轮堆取料机回转驱动过载保护装置分析及优化 ..... 赵莹 张明 韩树 徐万鑫 (116)  
 Analysis and optimization of overload protective device for slewing drive of boom type bucket wheel stacker  
 ..... Zhao Ying, Zhang Ming, Han Shu, Xu Wanxin
- 综合信息**
- 《大数据产业规划 (2016-2020 年)》解读 ..... (13)
- 我国面向新能源发电的超导储能-限流技术取得重要进展 ..... (61)