



Contents

专题综述

- 浅谈起重机械施工质量控制计划的编制 马溢坚 王央央 (1)
Discussion on preparation of quality control plan of hoisting machinery construction

- Ma Yijian, Wang Yangyang
浅析港口混合动力轮胎式集装箱起重机 朱兴业 曾祥民 (4)
Analysis on hybrid-power rubber-tyred container handling crane Zhu Xingye, Zeng Xiangmin
起重机械焊接工艺评定相关标准对比分析与应用* 陈晓伟 戴汉政 陈增江 曲晓龙 王加庆 张勇 (6)

- Comparative analysis and application of related standards on welding procedure qualification of hoisting machinery* Chen Xiaowei, Dai Hanzheng, Chen Zengjiang, Qu Xiaolong, Wang Jiaqing, Zhang Yong

新产品·新技术

- 叉车货叉架横梁加工的多功能夹具设计 肖超海 何平 程双灵 季王卫 (12)
Design of multi-functional clamp for processing of beam of fork arm carrier of forklift

- Xiao Chaohai, He Ping, Cheng Shuangling, Ji Wangwei
基于 fisher 判别法的起重机安全评价 李爱华 赵章焰 (14)

- Crane safety evaluation based on fisher discriminant and analysis Li Aihua, Zhao Zhangyan
智能起重机在无人化库房管理中的应用 代永利 丁晓峰 (18)

- Application of intelligent crane in the management of unmanned chemical library Dai Yongli, Ding Xiaofeng

- 永磁传动技术在带式输送机中的应用 王汉生 (23)

- Application of magnetic driving technology in belt conveyor Wang Hansheng

- 矿山索道转弯装置结构设计与强度分析 张琦 张宝红 饶伟 (25)

- Structural design and strength analysis of mine cableway turning device Zhang Qi, Zhang Baohong, Rao Wei

- 大型铺管船流水线上的龙门起重机 苏希俭 (28)

- Gantry crane for assembly line of large-scale pipe-laying ship Su Xijian

设计·计算

- 起重机械用梅花联轴器应力特性仿真及优化* 王惠泉 段勇 (31)
Simulation and optimization for stress characteristic of plum coupling for hoisting machinery

- Wang Huiquan, Duan Yong
简易升降式立体车库提升系统结构设计 范红红 房华 (34)

- Structural design of lifting system of compact lifting stereo garage Fan Honghong, Fang Hua

- PLC 控制的圆形塔式立体车库控制系统设计 巫世晶 李剑斌 张银龙 (36)

- Design of PLC control system of circular tower parking system Wu Shijing, Li Jianbin, Zhang Yinlong

- 机械控制方式的中位操作机构设计 聂帅强 王爱文 曹建红 李小宾 (40)

- Design of meso-position operating mechanism of mechanical control method Nie Shuaiqiang, Wang Aiwen, Cao Jianhong, Li Xiaobin

- 5 t 叉车折叠货叉连接件设计 吴多安 红 郁剑恺 (44)

- Design of connecting piece of folded fork of 5 t forklift Wu Duo, An Hong, Tai Jiankai

- 起重机电气应急运行技术开发与应用 赖家柱 张涛 (46)

- Development and application of electrical emergency operating technology for crane Lai Jiazhu, Zhang Tao

- 三峡升船机超大型平衡重块制造计量智能控制系统设计与研究 卫书满 (49)

- Design and study of intelligent control system for manufacturing and measuring of extra-large

- counterweight of Three-Gorges ship lifter Wei Shuman

分析·研究

- 大型重载装填系统工作过程载荷关系分析 白文龙 翟旺 廖军 何冠杰 (52)
Analysis on load relation during operation of large-scale loaded filling system

- Bai Wenlong, Zhai Wang, Liao Jun, He Guanjie

- AP1000 核电厂单一故障保护起重机冲顶事故动力学分析* 翁晨阳 (57)

- Kinetic analysis on collision accident of single-fault fault protection crane of AP1000 nuclear plant Weng Chenyang

- 油气悬挂系统特性 吴永闯 游明琳 (61)

- Characteristics of oil-gas suspension system Wu Yongchuang, You Minglin

基于 AMESim 的负载敏感液压系统的仿真研究 高立龙 马士友 阮宜武 马雪红 (64)
AMESim-based simulation study on load sensitive hydraulic system

..... Gao Lilong, Ma Shiyou, Ruan Yiwu, Ma Xuehong
基于 RecurDyn 的输送机三维建模方法的研究 许明华 戴莉 李光布 (69)

RecurDyn-based study on 3D modeling method of conveyer Xu Minghua, Dai Li, Li Guangbu
基于 Ansys 的卸船机抓斗小车承载能力分析 王华贵 刘文超 陈振 (75)

Ansys-based analysis on carrying capacity of grab trolley of ship unloader
..... Wang Huagui, Liu Wenchao, Chen Zhen

新型锥形调心托辊组力学分析及参数优化 周满山 周东 张媛 张华 王成建 (78)
Mechanical analysis and parameter optimization of new cone self-aligning roller set

..... Zhou Manshan, Zhou Dong, Zhang Yuan, Zhang Hua, Wang Chengjian
基于振动台试验的岸边集装箱起重机结构抗震动力模型研究 袁金虎 李哲 (82)

Dynamic model study on seismic dynamic model of quayside container crane based on shaking table test
..... Yuan Jinhu, Li Zhe

基于动态分析的龙门起重机结构优化研究 熊彪 李拔周 (87)
Optimization study on gantry crane structure based on dynamic analysis

..... Xiong Biao, Li Bazhou
技改·工艺

免清根埋弧焊技术在平衡梁中的应用研究 虞华 王占冲 (91)
Study on application of back-chipping-free submerged-arc welding technology in equalizing beam

..... Yu Hua, Wang Zhanchong
实验·研究

门座起重机安全监控管理系统的试验验证 滕启斯 (94)
Test verification of safety monitoring management system of gantry crane

..... Teng Qisi
带滑动摩擦阻力液压千斤顶系统力值校准的试验研究 邢怀念 金立强 张小鹏 刘增利 李达 孙凯 李书卉 (97)

Study on force calibration test of hydraulic jack system with sliding frictional resistance
..... Xing Huainian, Jin Liqiang, Zhang Xiaopeng, Liu Zengli, Li Da, Sun Kai, Li Shuhui

基于神经网络的起重机运行可靠性状态监测 禹建丽 周瑞芳 (100)
Status monitoring for crane operation reliability based on neural network

..... Yu Jianli, Zhou Ruifang
故障分析

基于模糊 Petri 网的卸船机故障诊断专家系统 卓宏明 张勋 (106)
Fault diagnosis expert system for ship unloader based on fuzzy Petri network

..... Zhuo Hongming, Zhang Xun
技术改造

天津港大型岸边集装箱起重机液压提升加高方法研究^{*} 孙远韬 张氢 么学成 阚晓辉 周兆伟 (110)

Study on hydraulic jack heightening method for large-scale quayside container crane at Tianjin Port
..... Sun Yuantao, Zhang Qing, Yao Xuecheng, Que Xiaohui, Zhou Zhaowei

低高度起重机上滑轮装置的改进 曹金娟 (114)
Design improvement for upper pulley gear of low-altitude crane

..... Cao Jinjuan
斗轮取料机悬臂带式输送机胶带的损耗分析及防治 王明江 (117)

Analysis and prevention of belt loss of cantilever belt conveyer of bucket wheel reclaimer
..... Wang Mingjiang

港口带式输送机除铁器的升级改造 于广年 张纯利 (120)
Upgrading and improvement of de-ironing separator of port belt conveyer

..... Yu Guangnian, Zhang Chunli
多绳摩擦提升机天轮衬垫材料的改进 邓宇翔 彭永朝 (124)

Improvement of gasket material for hoisting sheave of multi-cable friction hoister
..... Deng Yuxiang, Peng Yongchao

铸造起重机吊具的改进 王昕 王佳蔚 (126)
Improvement of sling of ladle crane

..... Wang Xin, Wang Jiawei
利用激光判定起重机的车轮偏差 郁传志 李芳 (127)

Determination of crane wheel bias by laser

..... Tai Chuanzhi, Li Fang
综合信息

世界物料搬运联盟第三次会议成功举行 (3)

世界最大架桥设备在秦皇岛天业通联重工下线 (11)

创新发展 引领增长的战略主线 (30)

大数据战略推动国家全面转型 (43)