

Contents

专题综述

- 岸边集装箱起重机主梁焊接变形的预测及控制 陆汉忠 (1)
 Prediction and control of weld deformation of girder of quayside container crane Lu Hanzhong
 叉车虚拟仿真培训考试系统的开发研究^{*} 张 静 王海荣 (5)
 Development & research on examination system for forklift virtual simulation training^{*} Zhang Jing, Wang Hairong

- 电梯技术规范应有检验模式的要求 李永亮 (9)
 Requirements on inspection mode specified in elevator technical specifications Li Yongliang

新产品·新技术

- 集装箱起重机大型箱梁拼板多丝不清根焊接技术研究 陆汉忠 (13)
 Plate splicing of large box girder of container crane study on multiple wire welding technique without back chipping Lu Hanzhong
 无轴螺旋输送机 程潞样 赵春晖 王科 (16)
 Shaftless screw conveyer Cheng Luyang, Zhao Chunhui, Wang Ke
 龙门起重机整体搬迁技术研究与应用 邵 奋 罗芊导 (19)
 Research and application of integral moving technology of gantry crane Shao Fen, Luo Qiandao
 国内首创高硬度起重机车轮热处理设备 金喜伟 刘 斌 季永全 金喜仲 丁得刚 (25)
 National initiative heat-treatment facility for high-hardness crane wheel Jin Xiwei, Liu Bin, Ji Yongquan, Jin Xizhong, Ding Degang
 无线遥控抓斗在垃圾处理起重机上的应用 邓 禹 朱 跃 言开文 (27)
 Application of wireless remote control grab on refuse disposal crane Deng Yu, Zhu Yue, Yan Kaiwen
 高速船舶主动力装置采用液压传动的可行性 邵龙涛 苏 博 白 洋 林坤坤 户国卿 周宏基 郑卫刚 (30)
 Feasibility of adopting hydraulic transmission in high-speed marine main power plant Shao Longtao, Su Bo, Bai Yang, Lin Kunkun, Hu Guoqing, Zhou Hongji, Zheng Weigang

- 基于互联网+的圆管输送带横向反弹力智能试验装置的设计^{*} 郝文龙 史飞龙 王 尧 孟文俊 张 洋 (34)
 Internet + based design of intelligent test device for transverse counterforce of round tube conveying belt^{*} Hao Wenlong, Shi Feilong, Wang Yao, Meng Wenjun, Zhang Yang

- 新型起升高度限位器^{*} 李 欣 秦义校 杨 明 (37)
 New-type lifting height limiter^{*} Li Xin, Qin Yixiao, Yang Ming

设计·计算

- 超大型四连杆 340 t 固定式起重机的设计 王宏敏 (40)
 Design of 340t fixed crane with ultra-large four-bar linkage Wang Hongmin
 1 100 t 全液压轮胎式船艇搬运起重机的设计 张 鑫 (44)
 Design of 1100t full-hydraulic rubber-tyred ship handling crane Zhang Xin
 悬链斗卸船机带式输送机机架的优化设计 孙桂萍 戴浩林 杜 君 (48)
 Optimal design of frame of belt conveyer of hanging chain-type ship unloader Sun Guiping, Dai Haolin, Du Jun

- 高空作业平台臂架强度算法研究 王 鑫 陈里楠 徐 伟 (52)
 Research on strength algorithm for cantilever crane on high-altitude working platform Wang Xin, Chen Linan, Xu Wei

- 一种纸箱装卸装置的设计 储子昀 游颖超 张祖涛 张兴田 (55)
 Design of a carton handling device Chu Zijun, You Yingchao, Zhang Zutao, Zhang Xingtian
 起重机组合式加载装置的设计 吴 侠 强宝民 何润生 谭树胜 (57)
 Design of crane combined loading device Wu Xia, Qiang Baomin, He Runsheng, Tan Shusheng
 基于神经网络和遗传算法的两跨箱形结构优化设计 高海龙 田 华 陈贤飞 (61)
 Optimal design of two-span box structure based on neural network and genetic algorithm Gao Hailong, Tian Hua, Chen Xianfei

- 钢丝绳牵引台车输送机的设计与应用 李灿琦 赵和平 何渝 (66)
 Design and application of wire rope converter dolly conveyer Li Canqi, Zhao Heping, He Yu

分析·研究

- 起重机械设计、制造及安装过程中典型案例分析及应对措施 刘建丽 陈晓伟 陈增江 (68)
 Typical case analysis and countermeasures during design, manufacturing, and installation of hoisting machinery Liu Jianli, Chen Xiaowei, Chen Zengjiang

大型履带起重机用路基箱有限元建模与分析 姜志建 王 欣 徐金帅 周国爽 (76)

Finite element modeling and analysis for subgrade box of large-scale crawler crane

..... Jiang Zhijian, Wang Xin, Xu Jinshuai, Zhou Guoshuang

铝电解多功能机组捞渣机构平挖作业的实现 宋 煦 倪正顺 何新华 宋 钢 刘道旺 (80)

Realization of flag digging of slag-dredger of aluminium electrolysis multi-function unit

..... Song Tao, Ni Zhengshun, He Xinhua, Song Gang, Liu Daowang

P95 大修列车履带架及支重轮的有限元分析 陈 建 陈 炜 向 康 (84)

Finite element analysis for truck frame and thrust wheel of P95 overhaul train

..... Chen Jian, Chen Wei, Xiang Kang

交流双速电梯和交流变频调速电梯的能耗分析 王 蕤 (88)

Analysis of energy consumption of AC double speed elevator and AC variable frequency

speed-governing elevator Wang Kui

频率及振幅对给料机充填率影响的模拟研究 程 龙 杨晓伟 张艳兵 李金雨 (92)

Simulation research on effect of frequency and amplitude on filling rate of feeder

..... Cheng Long, Yang Xiaowei, Zhang Yanbing, Li Jinyu

设备·技术

考虑惯性力影响的客运索道制动的理论计算和调整方法

..... 里 鑫 田增阳 康晶晶 程潞样 姜 磊 (95)

Theoretic calculation and adjustment method for passenger ropeway considering inertia force

..... Li Xin, Tian Zengyang, Kang Jingjing, Cheng Luyang, Jiang Lei

黄骅港三期工程摆车控制系统 代晓雪 (100)

Tippler control system for III-phase project at Port of Huanghua Dai Xiaoxue

试验·研究

基于正交设计的电梯曳引钢丝绳磨损研究* 尤光辉 林 正 陈向俊 金 俊 蔡尧兰 (104)

Study on abrasion of elevator traction pulley based on orthogonal design*

..... You Guanghui, Lin Zheng, Chen Xiangjun, Jin Jun, Cai Yaolan

安全·检测

防爆工业车辆主动防护系统检验技术要求 封昌盛 王新华 黄 洋 李世光 (109)

Requirement on inspection technique of active protective system of anti-explosion industrial vehicle

..... Feng Changsheng, Wang Xinhua, Huang Pai, Li Shiguang

起重机械失压保护与紧急停止开关功能的综合判别

..... 俞冬强 胡浩亮 吕 冰 陈 峰 胡金秀 王国良 王云哲 (114)

Integrated judgement of no-voltage protection and emergency stop switch function of hoisting machinery

..... Yu Dongqiang, Hu Haoliang, Lv Bing, Chen Feng, Hu Jinxiu, Wang Guoliang, Wang Yunzhe

升降横移类立体停车库电气安全系统改进 吴 磊 朱 健 (119)

Improvement of electrical safety system of lift-sliding stereo garage Wu Lei, Zhu Jian

由一起检验案例谈起起重机械制造监检 卢 疆 孔庆彪 张汉钦 彭 潘 (121)

Manufacturing supervision and inspection for hoisting machinery through an inspection practice

..... Lu Jiang, Kong Qingbiao, Zhang Hanqin, Peng Xiao

技术·改造

整流罩铁路运输包装箱密封结构改进设计 何 利 郭 巍 马广亮 (123)

Improved design of leakproof structure of transport package box of radome railway

..... He Li, Guo Wei, Ma Guangliang

翻车机空车推车装置的技术改进 王明江 (126)

Technology improvement of empty cart device of tippler Wang Mingjiang

使用·维修

翻车机定位车驱动小齿轮更换方法改进 刘玉泉 (128)

Improvement of replacement method for driving pinion of positioning car of dumper

..... Liu Yuquan

技术·讲座

自动化轨道起重机的平均故障间隔箱量统计系统 徐国新 (130)

The statistical system of the mean moves between failures of automated rail mounted gantry crane

..... Xu Guoxin

综合信息

第一届全国大学生起重机创意大赛将举行 (8)

世界绿色发展投资贸易博览会 11 月举办 (118)