

机械管理开发

MECHANICAL MANAGEMENT AND DEVELOPMENT

2016年第4期
(总第156期)

编辑出版：山西经济和信息化出版传媒中心

一级（优秀）期刊

ISSN1003-773X
CN14-1134/TH

- 中国核心期刊（遴选）数据库收录期刊
- 中国期刊全文数据库全文收录期刊
- 中国学术期刊网络出版总库全文收录期刊
- 中国学术期刊综合评价数据库来源期刊
- 中国学术期刊（光盘版）全文收录期刊
- 中文科技期刊数据库（维普网）收录期刊
- 万方数据-数字化期刊群全文上网期刊



ISSN 1003-773X



9 771003 773161

定价：人民币15元

万方数据

目 次

·设计理论与方法·

- 不同飞行速度机载导弹滑弹一体式发射数值模拟 王 博,马贵春,陈 阳(5)
一种用于图书自动存取装置的设计* 靳 龙,安红忠,周 勤,谢法春(8)
沿空留巷煤柱尺寸留设数值模拟研究 杨白羽(11)
基于 F-AHP 的履带车辆制运动方案综合评价* 房 远,张豫南,张舒阳,朱 昊(14)
万能工具显微镜 CCD 影像测量功能开发 姜国明,陈胜军(19)
矿山水泵自动排水控制系统分析 国兰兰(22)
大断面巷道围岩变形规律及支护参数设计研究 白云峰(24)
论千米钻机施工工艺及打捞技术 赵晋军(26)

·机械分析与设计·

- 机车火灾自动报警灭火监控系统的设计与实现 李建兵(28)
基于公路压实机械新技术的分析 张保卫(32)
橡胶开炼机液压调距系统设计及研究 万利平,郭 佳(34)

·测试与诊断技术·

- 矿山 GPS 测量起算点的可靠性分析方法研究 徐长久(38)
浅谈煤质化验中发热量与挥发分的测定 冯伟男(41)
关于电梯检测与检测技术的研究 高 昱(43)
煤矿变压器运行故障及故障诊断的研究 康小强(45)
采煤机故障诊断与故障预测分析 刘佳喜(47)

·实践与应用·

- 江西省金溪县芳源石英萤石矿地质成因探讨 李燕燕,唐孝荣,许小燕(49)
超前支护式液压支架在综采放顶煤工作面的应用 冯云贵(51)
摩擦限矩器在刮板输送机中的应用 郭振寅(53)
热工自动化技术在电厂的应用和发展 梁 鑫(55)
机械加工零件表面纹理缺陷检测技术与实践 邹 芳(57)
矿山机电设备维修中故障诊断技术的运用 王小红(60)
大倾角上运带式输送机在煤矿中的应用 李海龙(62)
通信技术在煤矿生产调度管理系统中的运用 李 赞(64)
磨料流加工柱塞的研究与应用 徐丽丽(66)
阳煤五矿 8320 工作面开采条件及采煤工艺研究 刘志辉(68)
“互联网+”在环境影响评价中的实践应用与探讨 高晶霞(70)
煤矿井下传感器的研究及应用 胡晨浩(72)
控制工程在机械电子工程中的应用 李艳萍(75)
选煤厂机电设备管理智能化与信息化的探索与实践 尉晓珑(77)
大断面巷道工作面过陷落柱工艺的研究 焦钟浩(80)
水冷机组第二台循环水泵启停优化探讨 陈小光(83)
大型火电厂 SCR 脱硝改造对机组运行参数的影响分析 董 强(85)

斜沟煤矿 10 kV 高压架空线路防雷综合改造分析	杜治宇,康志国(88)
探析弹簧对柱塞泵的影响	赵立全(91)
煤矿无极绳绞车安装安全对策分析	韩志强(94)
SS4 型电力机车 92KM 电磁接触器的烧损及改造	王峰晖,刘智慧(96)
·自动化技术与设计·	
综采工作面自动化跟机采煤工艺研究	郭明飞(98)
配电自动化若干问题的探讨	王振国(102)
·专题与综述·	
矿山设备智能管理系统*	张 宇(104)
污水处理技术及其发展趋势探究分析	车雅飞(107)
煤矿安全监测监控综合集成系统	王小军(109)
国内外高产高效综采技术的研究综述	张九堂(112)
关于煤矿电气设备管理的思考	周会军(114)
浅析我国选煤机械装备的现状及发展方向	马俊龙(117)
国内外带式输送机的现状及发展趋势	杨兰峰(119)
矿山机电业的发展现状及趋势	冯 刚(121)
低瓦斯矿井高瓦斯区域的瓦斯治理探讨	刘智龙(123)
选煤厂机电设备 3+2 管理模式的探索	马自杰(125)
燃煤发电节能技术浅析	黄晓虎(127)
煤矿隐蔽致灾地质因素类型及致灾特征	冯 强(129)
煤矿巷道掘进技术现状及未来发展趋势	石森源(133)
煤矿高效掘进技术现状及发展	张兴华(135)
煤矿地质工作与防治水工作结合的必要性研究	侯海平(138)
试论我国工业控制自动化技术的现状和发展趋势	郭 宇(140)
煤矿综采设备的腐蚀机理及其防腐蚀对策	赵秀龙(142)
综合机械化采煤工艺分析	常 伟(144)
关于提高化工机械防腐能力的探讨	王海艳(147)
瓦斯治理理念和煤与瓦斯共采技术	高毓晖(149)
·经验交流·	
矿井调度通信交换机的故障处理研究	安志强(151)
城市高低压供电线路入地工程施工探讨	张志强(154)
垃圾焚烧电厂电气安全管理分析	黄 冬(157)
矿井通风与安全监控中的问题和改进措施	王进成(159)
选煤厂设计电气节能浅析	郝星亮(162)
煤矿机电设备的管理与维护	安玉明(164)
浅析煤矿采掘机械液压系统故障原因及预防	郭 江(166)
矿山机械设备润滑相关问题的探讨	赵良贵(168)
加强电梯安全管理及维保分析	郭 凯(170)
煤矿采掘工作面的爆破安全技术分析	郭海生(172)
井下测量存在的问题及对策	陆三华(175)
EBZ-150A 型掘进机安装维护要点	尹伟民(177)
煤矿综采工作面设备安装拆除现状及改进措施	杨 楠(179)
圆柱齿轮的加工原理及误差分析	管卫红(181)
浅谈 68305 综采工作面过陷落柱群方法	彭永良(183)

注:带★号的为基金资助论文

期刊基本参数: CN 14-1134/TH *1986 *m *A4 *185 *zh *P * ¥15.00 *5000 *74 *2016-04

CONTENTS

•Design Theory and Methods•	
Design of Automatic Access Device for Books	Jin Long, An Hongzhong, Zhou Qin, Xie Fachun(5)
Numerical Simulation of the Airborne Missile Launching by Rail- catapult Integrated Launcher in Different Flight Speeds	Wang Bo, Ma Guichun, Chen Yang(8) Yang Baiyu(11)
Setting Numerical Modeling of Pillar Dimension of the Gob-side Entry Retaining	Yang Baiyu(11)
Comprehensive Evaluation of Braking Scheme for Tracked Vehicles Based on F-AHP	Fang Yuan, Zhang Yunan, Zhang Shuyang, Zhu Hao(14)
CCD Video Measuring Development of the Universal Tool-measuring Microscope	Jiang Guoming, Chen Shengjun(19)
Analysis on Automatic Drainage Pump Control System	Guo Lanlan(22)
Research on the Supporting Parameters Design and Deformation of Surrounding Rock of Large Section Roadway	Bai Yunfeng(24)
Salvage Technology and Engineering of 1 km Drilling Machine	Zhao Jinjun(26)
•Mechanical Analysis and Design•	
Design and Realization of Automation Quench Supervision System of Locomotive	Li Jianbin(28)
Analysis on New Technology of Compact Machinery for Roads	Zhang Baowei(32)
Design and Study of Hydraulic Adjustable Pitch System of Rubber Compounding Mill	Wan Liping, Guo Jia(34)
•Test Technology•	
Analysis on Reliability of GPS Starting Points	Xu Changjiu(38)
On the Determination Method of Calorific Value and Volatile Component in Coal Quality Testing	Feng Weinan(41)
Analysis on the ElevatorTesting and Detection Technology	Gao Yu(43)
Analysis on Faults Diagnose and Operation Faults on the Transformer	Kang Xiaoqiang(45)
Faults Analysis and Diagnose of Coal Cutter	Liu Jiaxi(47)
•Practice and Application•	
Discussion on the Geological Genesis of Fangyuan Quartz and Fluorite Mine in Jinxi County of Jiangxi Province	Li Yanyan, Tang Xiaorong, Xu Xiaoyan(49)
Application of the Supporting Hydraulic Type in Comprehensive Top Coal Caving Working Face	Feng Yungui(51)
Application of Friction Torque Limiter in the Scraper Conveyer	Guo Zhenyin(53)
Application of the Thermal Automation Technology in Power Plants	Liang Xin(55)
Test Technology and Practice for Surface Texture Defect of the Machined Component	Zou Fang(57)
Application of Fault Diagnose Technology in Maintenance of Electrical and Mechanical Equipment	Wang Xiaohong(60)
Application of the Conveying Belt Type with Angle in Coal Mine	Li Hailong(62)
Application of Communication Technology in Production Schedule Management	Li Zan(64)
Abrasive Flow Research and Application Processing of Plunger	Xu Lili(66)
Analysis on Coal Mine Technology and Mining Conditions of 8320 Working Face of No.5 Coal Mine of Yangquan Coal Mine Group	Liu Zhihui(68)
Practice and Research on "Internet +" under the Circumstances of Environmental Impact Assessment	Gao Jingxia(70)
Analysis and Application of Sensors under the Coal Mine	Hu Chenhao(72)
Application of Control Engineering in the Mechatronic Engineering	Li Yanping(75)
Exploration and Practice of Management and Informationization of Electromechanical Equipment in Coal Preparation Plant	Wei Xiaolong(77)
Analysis on Collapse Column of Tunneling in the Big Cross Section	Jiao Zhonghao(80)
Optimization for Starting and Stop for the Circulation Water Pump of Water-cooling Machine	Chen Xiaoguang(83)
Influence Analysis on SCR Denitration Modification on the Parameters Change in the Large Thermal Power Plant	Dong Qiang(85)
Xiegou Coal Mine 10kV High-voltage Overhead Line Analysis of the Comprehensive Transformation of Lightning	Du Zhiyu, Kang Zhiqiang(88)
Analysis on the Influence of Springs on the Pumper Pump	Zhao Liqian(91)
Countermeasures on Endless Rope Winch of Coal Mine	Han Zhiqiang(94)
Reform on 92KM Electromagnetic Contactor Burning of SS4 Locomotive	Wang Fenghui, Liu Zhihui(96)
•Automation Technology and Design•	
Automation Mining Technology in Fully Mechanized Coal Mining Face	Guo Mingfei(98)
Discussion on Problems of Distribution Automation	Wang Zhenguo(102)
•Report and Summary•	
Mining Equipments Intelligent Management System	Zhang Yu(104)
Analysis of Sewage Treatment Technology and Its Development Trend	Che Yafei(107)
Integrated System of Safety Supervision System in Coal Mines	Wang Xiaojun(109)
Analysis on High Production and Efficiency of Comprehensive Mining Technology Home and Abroad	Zhang Jiutang(112)
Thinking about the Coal Mine Electrical Equipment Management	Zhou Huijun(114)
Status and Development of Coal Preparation Equipment of Our Country	Ma Junlong(117)
Development Trend and Status of Belt Conveyor	Yang Lanfang(119)
Development Status and Its Trend of Coal Mine Mechanical and Electrical Industry	Feng Gang(121)
Discussion on the Gas Treatment at High Gas Areas in Low Gas Mine	Liu Zhilong(123)
3+2 Management Mode of Electromechanical Device in Coal Washing Plant	Ma Zijie(125)
Simple Analysis of Coal-fired Power Generation Technology	Huang Xiaohu(127)
On the Type of Coal Mine Hidden Hazard-causing Geological Factors Type and Its Hazard-causing Characteristic	Feng Qiang(129)
Trend and Status of Roadway Tunneling of Coal Min	Shi Senyuan(133)
Status and Development of Effective Tunneling Technology of Coal Mine	Zhang Xinghua(135)
Necessity of Integrating Geological Work with Water Prevention	Hou Haiping(138)
Status and Development of the Automation Technology of Our Country	Guo Yu(140)
Anti-corrosion and the Mechanism of Corrosion of Fully Mechanized Mining Equipment	Zhao Xiulong(142)
Analysis of Comprehensive Mechanized Coal Mining Technology	Chang Wei(144)
The Ways to Improving Anti-corrosion Ability of Chemical Machinery	Wang Haiyan(147)
On the Gas Control Concept and Coal and Gas Jointly Mining Technology	Gao Yuhui(149)
•Experience Exchange•	
Research on the Fault Handling of Mine Dispatching Communication Switches	An Zhiqiang(151)
Construction on High and Low Voltage Circuit into Ground of the City	Zhang Zhiqiang(154)
On the Analysis of Electrical Safety Management in Refuse Incineration Power Plant	Huang Dong(157)
Problems and Improvement of Mine Ventilation and Safety Supervision	Wang Jincheng(159)
Analysis on Electrical Energy Saving of Coal Washing Plant	Hao Xingliang(162)
On the Management and Maintenance of Electromechanical Equipments of Coal Mines	An Yuming(164)
The Reason for Faults and Prevention Measures for the Hydraulic System of Mining Machinery of Coal Mine	Guo Jiang(166)
Lubrication for the Mechanical Equipment	Zhao Lianggui(168)
Maintenance and Safety Management of the Elevator	Guo Kai(170)
Analysis of Blasting Safety Technology in Coal Mine Excavation Face	Guo Haisheng(172)
Problems and Countermeasure of the Underground Measurement	Lu Sanhua(175)
Points for Maintenance and Installation of EBZ-150A Heading Machine and Summery	Yin Weimin(177)
Improvements and Removing Methods for Comprehensive Working Face of Coal Mine	Yang Nan(179)
Analysis of Cylindrical Gear Machining Principle and Error	Guan Weihong(181)
Sink Holes Passing the 68305 Fully Mechanized Coal Mining Face	Peng Yongliang(183)



山西经济和信息化出版传媒中心期刊征稿征订

《机械管理开发》

国内统一连续出版物号CN 14-1134/TH，国际标准连续出版物号ISSN 1003-773X，月刊。

E-mail: jxglkfbjb@126.com，电话：0351-7334249

《现代工业经济和信息化》

国内统一连续出版物号CN 14-1362/N，国际标准连续出版物号ISSN 2095-0748，半月刊。

E-mail: xdgyjjxxhx@163.com，电话：0351-7331469

《山西化工》

国内统一连续出版物号CN 14-1109/TQ，国际标准连续出版物号ISSN 1004-7050，双月刊。

E-mail: sxhgbjb@126.com、sxhxgy@163.com，电话：0351-2023819、0351-7331479

《山西冶金》

国内统一连续出版物号CN 14-1167/TF，国际标准连续出版物号ISSN 1672-1152，双月刊。

E-mail: sxybjb@126.com、yejinsx@126.com，电话：0351-7330197



扫一扫 关注微信