



ISSN Q K1801172

CN 14-1134/TH

机械管理开发

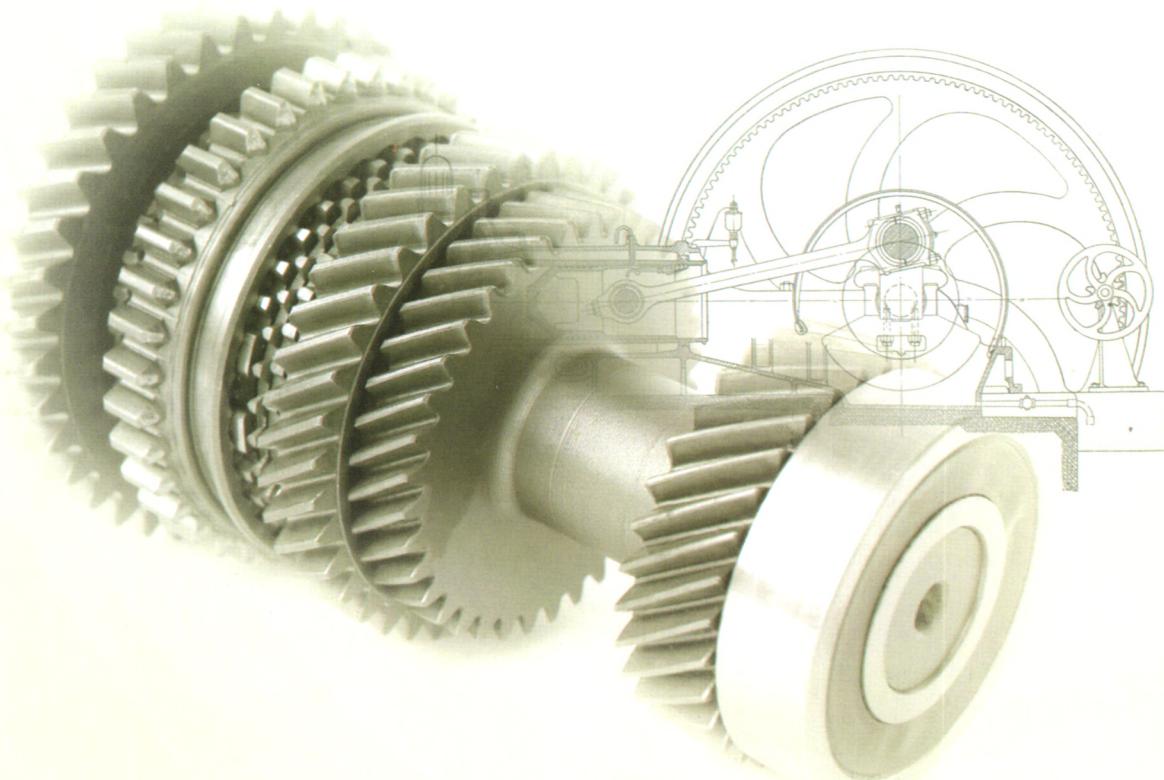
MECHANICAL MANAGEMENT AND DEVELOPMENT

编辑出版: 山西经济和信息化出版传媒中心

山西省一级(优秀)期刊

2017年第12期

第32卷(卷终) 总第176期



- 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 773178

定价: 人民币20元

万方数据

目 次

·设计理论与方法·

一种槽形托辊组内曲线抬高角无级调整运动装置的设计*	钟粤龙,文义根,于鸿泽,陈贤斌,曾少权,任金波(1)
一种剖视图求解新方法的研究与探索*	周征,王进军,郑怀东,卢广顺,董小雷(3)
烟丝箱单元柔性装配工装设计	陈志兴,周义民(6)
采煤机调高控制系统的分析建模	崔瑾(8)
50 MWe 循环流化床锅炉炉膛受热面防磨优化设计	杜琴如(11)

·机械分析与设计·

分体式 6.25 m 捣固侧装煤车现场测试与校核*	刘冬野(15)
重型多挡变速箱互锁与自锁机构探析	刘维岗(17)
采掘中高强钢低组配焊接接头性能的应用	杨海鹏(19)
近距离煤层工作面综采设备系统可靠性分析	郭志雄(22)
基于 SL 模型的新型变速器壳体快速铸造研究	赵渊(24)
zzs5600 型液压支架的结构技术改造分析	安晓鸣(27)
数控编程技术在液压支架制造中下料环节的应用	平玲玲(29)
大采高综放工作面煤壁稳定性研究	刘云龙(31)
大采高综采工作面液压支架稳定性分析	马日亮(34)
商用车 AMT 变速器换挡及功能切换装置的研发与应用	贺大伟(36)
煤矿在用通风机性能曲线测试方法的选择	杨玉涛(38)
某中型七挡变速器选挡性能改进措施	常江(40)
煤矿运输中单轨吊的使用及维护方式研究	赵晓东(42)
大采高工作面三机设备选型与应用	梁国华(44)
综放工作面临采空侧回风巷丛柱鞋支护技术的应用	王达三(47)
矿用自动洒水降尘装置的研究与应用	王卫东,任远(49)
新采区首采综放工作面矿压规律分析	耿强(51)
工作面采高对矿压显现规律的影响	苏仰忠(53)
煤矿水泵机组常见故障及其特点	胡爱保(56)
炮掘巷道临时支护的研究	李宇飞(59)
气箱脉冲收尘器工作原理及常见故障判断处理	石增辉,秦泽叶,李保明,张德鑫(61)
我国煤矿巷道支护技术研究	刘东东(63)

·测试与诊断技术·

煤矿机电设备故障诊断与维修技术	宋世太(65)
-----------------	---------

·实践与应用·

ZDC30-2.0 型常闭斜巷跑车防护装置的应用	刘瑞(67)
阳煤一矿 3 号煤层提升分运输系统的改造实践	王振帆(69)
大采高工作面远距离供液研究与应用	许艳萍(71)
晋华宫煤矿大倾角综采工作面回采边角煤工艺探讨	刘兵(73)
ZJ118 卷接机组烟支切口问题分析与处理	周钦(75)
绿化工艺过程 提升产品质量	穆文慧(78)
大采高工作面过构造技术应用与分析	李成峰(81)
店坪矿切顶卸压无煤柱留巷技术试验研究	王瑞捷(84)
煤矿机械设备电机软启动探讨	聂志武(86)
宏远矿锚索支护应用技术研究	尹万杰(88)
低浓度煤层气发电机组技术及其运用分析	石国正(90)
煤矿井下恒压变频供水装置的选型及应用	崔磊(92)
矿井提升机转子变频电控系统的改造实践	李晓宁(95)
井下采煤技术与采煤工艺的选择应用研究	焦振国(97)
阳煤一矿大动力设备监测远程共享技术应用	王涛(99)

综采切眼大断面施工支护优化技术研究	张丽霞(101)
机电一体化技术在智能制造中的应用	胡志耀(104)
·自动化技术与设计·	
飞机空调状态监测系统设计与实现	刘 贺,于鸿彬,侯立国,雷贻文(106)
基于EDA软件 QuartusII 的数字钟设计	钱虹凌(109)
基于组态王和三菱 PLC 的猴车电控系统设计分析	王承龙(111)
电牵引采煤机电控系统的总体设计	赵 炎(113)
西门子 PLC 在空压机站智能控制系统中的应用	张鹏君(116)
PLC 在机电控制系统故障维修中的应用	李 明(118)
综合自动化系统在煤矿中的应用	李连毅(121)
煤矿井下通风机不停风倒风机自控系统探究	王晋宏(123)
煤矿机电设备综合自动化技术探讨	贾晓勇(125)
PLC 技术在矿山机电控制中的应用研究	闫志敏(127)
机械工程自动化创新实践开发研究	邱 健(129)
机电设备的自动化改造及维护	刘 强(131)
试析汽车自动变速技术的现状及发展趋势	张星辉(133)
·专题与综述·	
煤矿井下巷道掘进顶板支护技术	孙国慧(135)
建筑工程机械设备安全施工探讨	黄亚寅,贺学鹏(137)
复杂地质条件下的煤矿掘进支护技术	赵新星(139)
煤矿机电一体化技术应用及发展研究	张宏伟(141)
矿山机电设备维护管理探讨	杨光珍(143)
煤矿机电设备的管理与维护	吴 东(146)
煤矿高效掘进技术研究	赵 玥(148)
机电安装工程施工技术与质量控制	周建军(150)
采煤设备维修与管理策略	吴 凯(152)
煤巷综合机械化掘进技术探讨	周 伟(154)
机械设备管理的信息化建设探讨	赵 凯(156)
论煤矿岩巷快速掘进技术	董冬生(158)
机电控制技术的发展现状与展望	邢文俊(160)
机电一体化数控技术在煤矿机械中的应用分析	潘丽霞(162)
煤矿巷安全高效掘进技术现状与展望	高明亮(164)
煤矿机械中机电一体化技术探讨	任林枝(166)
高效高产综采工作面机电设备安全管理	高 飞(168)
关于煤矿掘进作业的探讨	刘金山(170)
煤矿辅助运输机械安全运行探讨	刘苏龙(172)
立井井筒快速施工技术研究	侯 岳(174)
煤矿机电设备中变频技术的应用	付勇强(176)
·经验交流·	
煤矿皮带运输机安装调试过程中的故障及其处理	李科峰(178)
煤巷掘进过断层方法	曾德慧(180)
软岩矿井巷道掘进顶板支护分析	赵立伟(182)
机电设备电气线路的故障检测与改进措施	范 斌(184)
关于煤矿提升机减速器的常见故障分析及技术改进	武国胜(186)
机电设备常见故障的分析及维修	李久承(188)
煤矿巷道掘进的影响因素及预防措施	刘腾飞(190)
煤矿机电设备的主要故障分析	昝志华(192)
煤矿机电设备管理存在的问题及改进对策	张 琦(194)
煤矿井下机电设备的维护与维修	兰易军(196)

注:带★号的为基金资助论文

期刊基本参数: CN 14-1134/TH * 1986 * m * A4 * 197 * zh * P * ¥20.00 * 5000 * 89 * 2017-12

CONTENTS

·Design Theory and Methods·

Design of Stepless Adjusting Motion Device of Inner Curve Elevation Angle in Groove Type Roller Set	Zhong YueLong, Wen Yigen, Yu Hongze, Chen Xianbin, Zeng Shaoquan, Ren Jinbo(1)
Exploration and Consideration on a New Method for Solving Cutaway View	Zhou Zheng, Wang Jinjun, Zheng Huaidong, Lu Guangshun, Dong Xiaolei(3)
Design of Flexible Assembly Tooling for the Tobacco Reservoir Unit	Chen Zhixing, Zhou Yimin(6)
Analysis and Modeling of Shearer Height Control System	Cui Jin(8)
Optimization Design of Heating Surface Wear 50 MWe Circulating Fluidized Bed Boiler	Du Qinru(11)

·Mechanical Analysis and Design·

Split 6.25 m Tamping Side Loading Testing and Checking of Coal Field	Liu Dongye(15)
Introduction to Interlock and Self Lock Structure of Heavy Duty Transmission	Liu Weigang(17)
Application of Joint Performance of Undermatched Welded High Strength Steel in Mining	Yang Haipeng(19)
Reliability Analysis of Fully Mechanized Mining Equipment System in Working Face of Close Distance Coal Seam	Guo Zhixiong(22)
Rapid Casting of a New Type of Transmission Based on SL Model	Zhao Yuan(24)
Technical Transformation Analysis of zzs5600 Hydraulic Support Structure	An Xiaoming(27)
Application of NC Programming Technology in Cutting of the Hydraulic Supporting Working Face of Coal Wall Stability of Large Mining Height Fully Mechanized Face	Ping Lingling(29)
Stability Analysis of Hydraulic Support in Fully Mechanized Mining Face with Large Mining Height	Liu Yunlong(31)
Research and Application of Gearshift and Function Switching Device for Commercial Vehicle AMT Transmission	Ma Riliang(34)
Selection of Test Method for Performance Curve of Ventilator Used in Coal Mine	He Dawei(36)
Performance Improvement Measures for the Selection of a Medium Seven-Block Transmission	Yang Yutao(38)
Use and Maintenance of Monorail Crane in Coal Mine Transportation	Chang Jiang(40)
Selection and Application of Three Machine Equipment in Large Mining Height Working Face	Zhao Xiaodong(42)
Application of Cluster Column Support Technology in Goaf Side Return Air Tunnel under Fully Mechanized Caving Face	Liang Guohua(44)
Research and Application of Automatic Sprinkling and Dust Reduction Device for Mine	Wang Dasan(47)
Ground Pressure Law of First Mining Fully Mechanized Caving Face in New Mining Area	Wang Weidong, Ren Yuan(49)
Influence of Working Face Mining Height on Strata Behavior Law	Geng Qiang(51)
Common Faults and Characteristics of Coal Mine Water Pump	Su Yangzhong(53)
Study on Temporary Support in Blasting Driving Tunnel	Hu Aibao(56)
Common Faults and Working Principle of Gas Box Pulse Dust Collector	Li Yufei(59)
Research on Coal Mine Roadway Support Technology in China	Shi Zenghui, Qin Zeye, Li Baoming, Zhang Dexing(61)
·Test Technology·	Liu Dongdong(63)
Fault Diagnosis and Maintenance Technology of Coal Mine Electrical and Mechanical Equipment	Song Shitai(65)

·Practice and Application·

Application and Discussion of ZDC30-2.0 Type Normally Closed Inclined Lane Car Protection Device	Liu Rui(67)
Transformation Practice of No. 3 Coal Lifting and Separating Transportation System in No. 1 Coal Mine	Wang Zhenfan(69)
Research and Application of Long Distance Liquid Supply in Large Mining Height Working Face	Xu Yanping(71)
Discussion on Mining Technology of Corner Coal in Large Inclined Fully Mechanized Mining Face in Jinhuaogong Coal Mine	Liu Bing(73)
Analysis and Treatment of Cigarette Cutting in ZJ118 Cigarette Maker	Zhou Qin(75)
Green Process to Improve the Quality of Products	Mu Wenhui(78)
Application and Analysis of Over Construction Technology in Mining Face with Large Mining Height	Li Chengfeng(81)
Experimental Study on the Technique of Retaining Roadway with No Coal Pillar for Roof Cutting and Pressure Relief	Wang Ruijie(84)
Application of Soft Start Motor in Coal Mine	Nie Zhiwu(86)
Application Technology of Anchor Cable Support in Hongyuan Coal Mine	Yin Wanjiel(88)
Low Concentration Coal Bed Gas Generator Set Technology and Its Application	Shi Guozheng(90)
Selection and Application of Constant Pressure Frequency Conversion Water Supply Device in Coal Mine	Cui Lei(92)
Transformation Practice of Variable Frequency Electric Control System of Mine Hoist Rotor	Li Xiaoning(95)
Study on Selection and Application of Underground Coal Mining Technology and Mining Technology	Jiao Zhenguo(97)
Application of a Remote Sharing of Coal Mine Power Equipment Monitoring	Wang Tao(99)
Study on Optimization Technology of Large Section Support in Fully Mechanized Mining Cut Hole	Zhang Lixia(101)
Application of Mechatronics Technology in Intelligent Manufacturing	Hu Zhiyao(104)

·Automation Technology and Design·

Design and Realization of the Aircraft Air Conditioning Monitoring System	Liu He, Yu Hongbin, Hou Liguo, Lei Yiwen(106)
Design of Digital Clock Based on QuartusII of EDA Software	Qian Hongling(109)
Analysis of "Monkey Car" Electronic Control System Design Based on Kingview and Mitsubishi PLC	Wang Chenglong(111)
Design of Electric Control System for Electric Haulage Shearer	Zhao Yan(113)
Application of SIEMENS PLC in Intelligent Control System of Air Compressor Station	Zhang Pengjin(116)
Application of PLC in Fault Maintenance of Electromechanical Control System	Li Ming(118)
Application of Integrated Automation System in Coal Mine	Li Lianyi(121)
Coal Mine Ventilator without Blowing Wind Machine Automatic Control System	Wang Jinrong(123)
Integrated Automation and Electromechanical Equipment Technology in Coal Mine	Jia Xiaoyong(125)
Application of PLC Technology in Mine Electromechanical Control	Yan Zhimin(127)
Research on Innovative Practice Development Based on Mechanical Engineering and Automation	Qiu Jian(129)
Reform and Maintenance of Automation of Electromechanical Equipment	Liu Qiang(131)
Present Situation of Automobile Automatic Transmission Technology and the Development Trend	Zhang Xinghui(133)

·Report and Summary·

Roof Support Technology of Roadway Driving Underground Coal Mine	Sun Guohui(135)
Construction Machinery and Equipment Safety Construction Countermeasures	Huang Yayin, He Xuepeng(137)
Support Technology of Coal Mine Excavation under Complicated Geological Conditions	Zhao Xinxing(139)
Application and Development of Electromechanical Integration Technology in Coal Mine	Zhang Hongwei(141)
Discussion on Maintenance Management of Mine Electromechanical Equipment	Yang Guangzhen(143)
Maintenance and Management of Coal Mine Electromechanical Equipment	Wu Dong(146)
Research of High Efficiency Tunneling Technology in Coal Mine	Zhao Yue(148)
Construction Technology and Quality Control of Mechanical and Electrical Installation Engineering	Zhou Jianjun(150)
Maintenance and Management Strategy of Coal Mine Equipment	Wu Kai(152)
Comprehensive Mechanized Tunneling Technology of Coal Roadway	Zhou Wei(154)
Discussion on Information Construction of Mechanical Equipment Management	Zhao Kai(156)
Discussion on Rapid Excavation Technology of Coal Mine Rock Roadway	Dong Dongsheung(158)
Development Status and Prospect of Electromechanical Control Technology	Xing Wenjun(160)
Application of Mechatronics CNC Technology in Coal Mine Machinery	Pan Lixia(162)
Present Situation and Prospect of Safe and Efficient Tunneling Technology in Coal Mine Rock Roadway	Gao Mingliang(164)
Application of Mechatronics Technology in Coal Mine Machinery	Ren Linzhi(166)
Safety Management of Mechanical and Electrical Equipment in High Efficiency and High Production Fully Mechanized Face	Gao Fei(168)
Tunneling Operation in Coal Mine	Liu Jinshan(170)
Coal Mine Safety Auxiliary Transport Machinery Operation	Liu Sulong(172)
On Rapid Construction Technology of Vertical Shaft	Hou Yue(174)
Application of Frequency Conversion Technology in Coal Mine Electromechanical Equipment	Fu Yongqiang(176)

·Experience Exchange·

Faults and Treatment in the Process of Installation and Debugging of Coal Mine Belt Conveyor	Li Kefeng(178)
Coal Roadway Crossing Method	Zeng Dehai(180)
Analysis on Roof Support of Roadway Driving in Soft Rock Mine	Zhao Liwei(182)
Electrical Circuit Fault of Electromechanical Equipment and Testing Measures	Fan Bin(184)
Faults and Improvement of Coal Mine Hoist Reducer	Wu Guosheng(186)
Analysis and Maintenance of Common Faults in Mechanical and Electrical equipment	Li Jiucheng(188)
Influencing Factors and Preventive Measures of Roadway Driving in Coal Mine	Liu Tengfei(190)
Analysis of Main Faults of Electromechanical Equipment in Coal Mine	Zan Zhihua(192)
Problems and Countermeasures of Electromechanical Equipment Management in Coal Mine	Zhang Qi(194)
Maintenance and Repair of Mechanical and Electrical Equipment in Underground Coal Mine	Lan Yijun(196)

风驰天下 大运汽车

大运重卡
DAYUN TRUCK



大运重卡官方公众微信
账号：山西大运汽车销售有限公司
销售热线：0359-2537999 2537333
公司网站：www.dayunmotor.com



大运重卡服务公众微信
账号：大运重卡服务
服务热线：400-653-9898
出品：山西大运汽车销售有限公司

地址：山西省运城市空港新区通达北路8号 邮编：044000 <http://www.dayunmotor.com>
销售电话：0359-2537999 2537333 传真：0359-2537209 服务热线：400-653-9898

万方数据