

1003-773X

Q K 2 2 1 8 7 6 9

-1134/TH

机械管理开发

MECHANICAL MANAGEMENT AND DEVELOPMENT

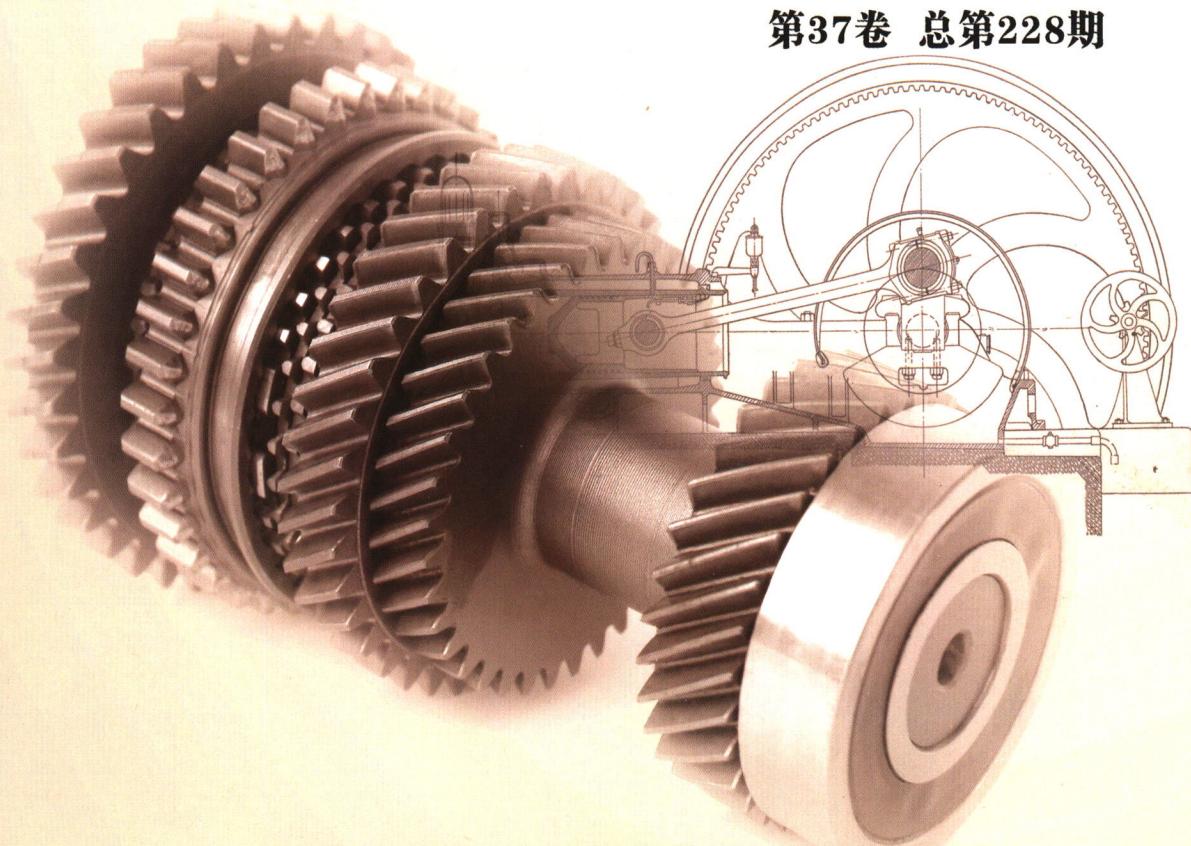
主管单位：山西省工业和信息化厅

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

2022年第4期

第37卷 总第228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 773222

定价：人民币20元

万方数据

目 次

·设计理论与方法·

- 气动平衡移载机械手的设计与校核分析 刘晨敏(1)
曲轴搬运机械装置夹持机构设计 张 驂(4)
煤矿用三臂锚杆钻车研发与应用 杨文斌(7)
钻机钻进参数监测及性能试验 尚泽龙(10)
沿空巷道围岩压力特征及合理支护原则 刘永强(12)
上隅角传感器随架移动自调式吊挂装置设计 张晓东,刘智敏,甘 涛,王玺淦,刘 柱(15)
基于疲劳寿命的液压支架可靠性优化设计 贾丽雯(18)
带式输送机滚筒剥磨一体机的设计分析 吕 超(20)
矿井通风机风量风压实时监测装置的设计 李国伟(23)
煤矿液压钻机的设计及动态特性试验分析 李 杰(25)
液压支架超前支护优化设计 葛 帆(28)
一物多用桌椅的设计 刘晓静(30)
电梯油压缓冲器的安全性设计分析 董 旭(33)
千米钻孔煤层预抽在高突矿井掘进中的应用研究 刘 凯(35)
机械化采煤机变速截割控制策略及调速控制研究 王云江(38)
架空乘人装置断绳抓捕保护系统的设计 李 伟,原韶森(41)
矿井主井提升机选型设计及仿真研究 张崇军(43)
选煤厂刮板输送机链传动系统动态波动特性的实验研究 高 龙(45)
液压支架可靠性优化设计 王苍劲(47)
浅埋煤层工作面顶板结构及支架载荷研究 武月江(50)
带式输送机自动巡检装置的设计及现场调试试验 李 超(52)
压滤机传动系统动态特性分析及结构参数优化 胡 琦(54)
矿用提升机控制系统优化研究 崔世杰,曹永爱,郭 凯(57)
煤矿井下辅助排水车的设计与研究 罗伟刚(59)

·机械分析与设计·

- 基于有限元法的液压支架掩护梁静力学分析及结构优化 刘 卿(61)
胶带机双动力合成系统的研究与仿真分析 薛艳飞(64)
基于 Fluent 的插装阀阀芯卡紧力分析 柳 渊(67)
大断面巷道支护及快速掘进施工工艺优化 任泽哲(70)
复采煤层架棚掘进工作面临时支护技术的研究 刘立东(73)
矿井掘进机综采工作面智能横摆控制技术研究 葛亚伟(76)
两柱掩护式液压支架力学性能及适应性分析 杨 浩(79)
基于 EDEM 的采煤机螺旋滚筒受力及优化研究 李 明(81)
煤矿通风系统优化方案对比 张尚伟(84)
悬臂式掘进机截割部液压系统仿真分析 马新懿(86)
多煤层开采通风系统的改进设计及评估 刘飞飞(89)
一种自移式非机载掘进超前支护装置的设计 宋明明(91)

掘进机悬臂摆动液压控制系统的仿真研究	任志亮(93)
基于模糊控制实现采煤机的自动化调速控制	毛化文(95)
软岩构造破碎带巷道支护实践	赵雷(98)
井下快速掘进支护装置技术研究	耿志新(100)
大长隧道用防水板铺设装置液压系统的设计	张慧杰,李明涛,安健涛(102)
倾斜煤层煤柱合理留设宽度及支护研究	褚永红(104)
刮板输送机中部槽参数优化研究	徐浩(107)
综采工作面过断层回采工艺及围岩控制	李致周(109)
综采工作面端面冒漏区围岩支护技术	韩国杰(111)
沿空留巷切顶卸压技术研究	魏昌彪(113)
带式输送机改向滚筒的静态分析及结构优化	王宇琪(116)
煤巷快速掘进工艺及临时支护设备的改进	许文林(118)
电动转辙机挤岔保护装置结构强度分析	魏凯(120)
基于流场分析的选煤分选机筒体优化	赵道文(122)
煤矿掘进机回转油缸疲劳断裂问题分析与改进	杨健(125)
复杂煤层条件下滚筒截割性能影响分析	寇岩(127)
矿用带式输送机传动滚筒仿真分析及优化	李小波(129)
基于风阻参数测定对通风系统的优化改造	王大帅(132)
矿用多绳摩擦式提升机的技术改造探析	杜鹏(134)
复杂岩巷高预应力支护技术的应用研究	郭君(136)
矿井通风系统的测定及降阻优化	李世强(138)
小煤柱孤岛工作面回采巷道支护技术研究	吴鹏飞(141)
·测试与诊断技术·	
煤矿机电设备常见故障诊断技术研究	张琦(143)
矿井刮板输送机监测及故障诊断系统设计	张慧勇(146)
综采面液压支架故障诊断及检测技术探究	赵晓宇(148)
基于神经网络的煤矿供电系统故障诊断技术研究	李飞飞(150)
·实践与应用·	
人工岛隔水管锤入振动在线监测系统应用	范西哲,陈国军,罗庆时,张江坤(152)
煤矿排水泵合理用电策略及仿真分析	李鹏亮(155)
突变工况下采煤机的智能化自适应降载控制策略研究	刘玉军(158)
基于单片机的煤矿用防爆电机应用设计	岳华(161)
煤矿井下大倾角综采面通风降尘系统的应用研究	白亮(164)
永磁直驱系统在煤矿皮带输送机上的应用研究	杨淘清(167)
管道抑爆装置在瓦斯抽采中的应用分析	吴斌(170)
交流变频技术在刮板输送机中的应用及优化	刘子荣(172)
基于 PLC 的皮带机变频调速张紧装置实施与应用	畅永顺(174)
综采工作面液压支架快速回撤工艺应用	张锐(177)
基于 5G 通信技术的连采机视频与智能化应用探析	赵军(179)

选煤厂分选系统优化改造	董永杰(181)
掘进巷道应力区围岩支护技术应用	孙军权(183)
架空乘人间距控制装置研究	朱昆鹏(185)
工作面过陷落柱期间深孔预裂爆破技术的应用	魏志强(188)
煤矿井下液压支架回撤技术方案研究	高 磐(190)
两渡矿选煤厂煤泥水泵智能化监测系统应用研究	许克武(192)
半流体润滑脂压力监测保护装置的应用探讨	吴 鹏(195)
液压支架故障预测研究	王 颖(197)
综采工作面液压支架安全回撤工艺探讨	张和平(200)
铁煤集团铁强环保公司大兴砖厂打包线回车系统改造	岳兴宇(202)
大深度矿井巷道围岩破坏原因分析及支护技术研究	张文鹏(204)
变频智能驱动控制系统在带式输送机上的应用研究	李 斌(206)
PLC 在矿井提升机变频调速控制系统中的应用	段李鹏(208)
光纤测温在煤矿井下皮带输送机沿线温度监测中的应用	陈瑞利(211)
矿井通风系统的改造及效果分析	赵文华(213)
综采工作面顶板及煤壁的注浆加固效果研究	梁 鸿(215)
组合锚注支护在深部大断面巷道围岩控制中的应用	杨军祥(217)
·自动化技术与设计·	
电牵引采煤机远程控制及状态监测系统设计与研究	王俊鑫(219)
矿用主通风机智能化监控系统应用分析	于鹏飞(222)
煤矿井下安全架空乘人系统设计	张星波(224)
无极绳绞车运输控制系统优化设计	孙琦峰(227)
工作面液压支架自适应控制系统研究	马腾飞(230)
刮板输送机全液压自动张紧控制系统的研究	王瑞勤(232)
船舶抗噪通信系统设计与应用研究	闫春志,肖红斌(235)
煤矿主要综采设备的智能化联控综采技术研究	陈 璐(237)
CAN 总线在液压支架电液控制系统中的应用	董伟宏(239)
空压机远程监测预警系统设计研究	高 宇(241)
选煤厂煤泥水高效过滤成套装备与控制系统设计	王文斌(244)
煤矿井下电机车远程监控及定位系统设计与研究	张俊仁(246)
多绳摩擦式提升机天轮智能监测系统研究及应用	张光辉(249)
橡胶混炼胶片冷却装置传输系统的设计与开发*	柯 良,黄飞飞(251)
一种跟机自适应采煤机电缆拖拽装置的设计	史艳斌(254)
矿用带式输送机节能控制系统设计与应用研究	武宏光(256)
带式输送机节能控制系统设计研究	郭 凯,崔世杰,曹永爱(259)
选煤厂带式输送机智能控制系统研究	欧阳子文(261)
关于矿用掘进机自动截割控制系统的研究	韩 伟(263)
矿用带式输送机自动化控制系统的应用	王晓飞(266)

选煤厂智能化巡检机器人结构设计	曹学磊(268)
长距离带式输送机节能优化研究	杨雪(271)
基于 CAN 总线的薄煤层液压支架电液控制系统设计	田伟(273)
综采工作面采煤机自动化控制技术研究	李学兵(275)
副井提升机直流调速系统的设计	来春(278)
·专题与综述·	
常村煤矿污水处理站生化处理系统改造与应用研究	董计鑫(280)
基于机械设计制造工艺及精密加工技术的研究	李绍炀(282)
机械工件 3D 打印关键技术分析	彭秋霖(285)
煤矿综采工作面远程可视化控制技术系统的研究	李志旺(288)
矿用隔爆电气组合开关结构及应用优点	赵禹雨(291)
提升中职机械 CAD 课程教学效率之策略	王奕黠(293)
综放工作面设备配套研究	武文财(295)
GB/T 36697—2018《铸造起重机报废条件》在生产中的应用	周继红(297)
综采工作面自动化技术研究与应用	周永盛(299)
新型小型钻铣加工中心机的分析与研究	徐剑锋(302)
350M W 超临界燃煤汽轮发电机组 TSI 升级改造	王伟(304)
综放工作面设备配套研究	王禄(307)
大型连铸机扇形段零段寿命研究	王丽远,刘占峰,岳志坤(309)
液压支架修复工艺流程的优化研究	贾丽丽(312)
采煤作业面的快速回撤及安装一体化施工技术研究	刘彦(314)
一种变速器带液力缓速器用法兰的改进方法	问晋芳(317)
煤矿井下综合自动化系统的设计	郭强(319)
综采工作面液压支架系统用液污染分析	陈龙(321)
·经验交流·	
浅谈变速箱侧推式分离机构故障及预防措施	魏霞(323)
低浓度瓦斯发电站安全保障措施研究	董紫亮(325)
煤矿液压支架常见故障及其维护策略	李晓敏(328)
QT 直线共轭内啮合齿轮泵的故障分析与修复	胡延东(331)
JL-2 型变速器输出轴轴承内圈脱出故障改进	赵清碧,马勇,孙峰,郭秋彦,孙震,张琛欣(333)
煤矿综采工作面大块矸石管控技术	赵嵘(335)
起重机故障模式及影响分析*	霍贵龙,王震,胡敦忠(337)
矿井通风机维护及主要故障排除方法探究	寇琳娜(340)
煤矿井下渗漏水原因及防治措施研究	翟补拴(342)
带式输送机皮带跑偏原因分析及自动纠偏措施研究	陈伟(345)
刮板运输机下滑问题与防范方法探析	郭伟(347)
煤矿刮板输送机溜槽失效分析与优化措施	段善普(349)

注:带★号的为基金资助论文

期刊基本参数: CN 14-1134/TH *1986*m*A4*350*zh*P* ¥ 20.00*5000*145*2022-04

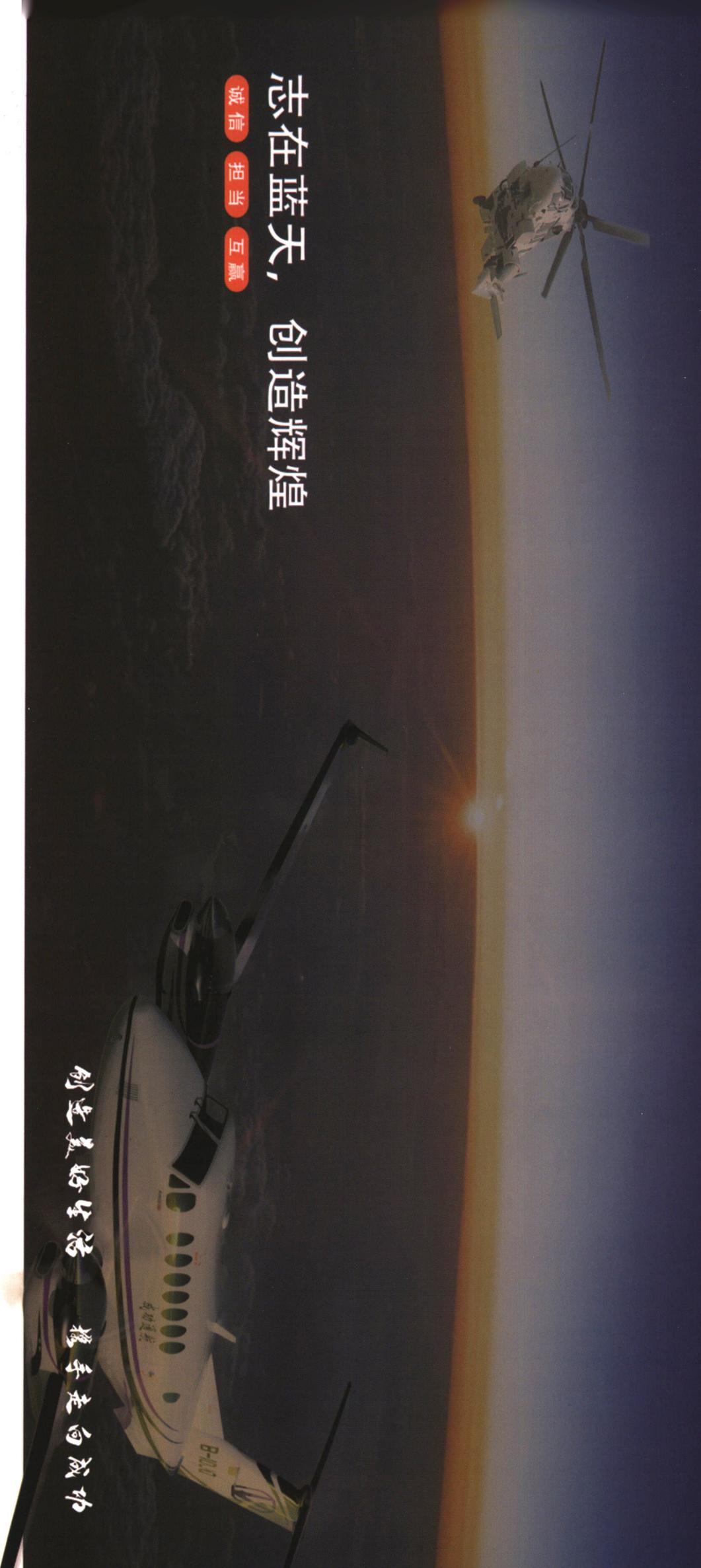
CONTENTS

•The Theory and Approaches of the Design•

Design and Check Analysis of Pneumatic Balance Transfer Manipulator	Liu Chenmin(1)
Design of Clamping Mechanism for Crankshaft Handling Mechanism	Zhang Hua(4)
Research and Application of Three Arm Bolter for a Coal Mine	Yang Wenbin(7)
Drilling Rig Drilling Parameters Monitoring and Performance Test	Shang Zelong(10)
Pressure Characteristics of the Surrounding Rock along the Empty Roadway and the Principle of Reasonable Support	Liu Yongqiang (12)
Design and Application of Hydraulic Self-Adjusting Hanging Device for Multiple Sensors Moving with the Frame at the Corner of the Header	Zhang Xiaodong, Liu Zhimin, Gan Tao, Wang Xigan, Liu Zhu(15)
Reliability Optimization Design of Hydraulic Support Based on Fatigue Life	Jia Liwen(18)
Design Analysis of Integrated Belt Conveyor Roller Stripping and Grinding Machine	Lyu Chao(20)
Design of Real-time Monitoring Device for Mine Ventilation Air Volume and Pressure	Li Guowei(23)
Design and Dynamic Characteristic Test Analysis of Hydraulic Drilling Rigs for Coal Mines	Li Jie(25)
Optimal Design of Hydraulic Bracket Overrun Support	Ge Fan(28)
Design of Multi-purpose Table and Chairs	Liu Xiaojing(30)
Safety Design Analysis of Elevator Hydraulic Buffers	Dong Xu(33)
Application of Pre-pumping of Coal Seam in Kilometer Borehole in High Sudden-Onset Mine Excavation	Liu Kai(35)
Control Strategy and Speed Control of Mechanized Coal Mining Machine with Variable Speed Cut-off	Wang Yunjiang(38)
Design of Overhead Occupant Broken Rope Catching Protection System	Li Wei, Yuan Shaosen(41)
Design and Simulation of Mine Main Shaft Hoist Selection	Zhang Chongjun(43)
Experimental Study on Dynamic Fluctuation Characteristics of Scraper Conveyor Chain Drive System in Coal Processing Plant	Gao Long(45)
Reliability Optimization Design of Hydraulic Support	Wang Cangjing(47)
Study on Roof Structure and Brace Load of Working Face in Shallow Buried Coal Seam	Wu Yuejiang(50)
Design and Field Commissioning Test of Automatic Inspection Device for a Belt Conveyor	Li Chao(52)
Analysis of Dynamic Characteristics of Filter Press Drive System and Optimization of Structural Parameters	Hu Jin(54)
Optimization Study of Mine Hoist Control System	Cui Shijie, Cao Yong'ai, Guo Kai(57)
Design and Research of Auxiliary Drainage Vehicle in Coal Mine	Luo Weigang(59)
•The Machinery Analysis and Design•	
Statics Analysis and Structure Optimization of Hydraulic Support Shield Beam Based on Finite Element Method	Liu Qing(61)
Research and Simulation Analysis of Dual Power Synthesis System of Tape Machine	Xue Yanfei(64)
Fluent-based Analysis of Cartridge Valve Spool Clamping Force	Liu Yuan(67)
Optimization of Construction Process for Large Section Roadway Support and Rapid Roadway Excavation	Ren Zezhe(70)
Research and Application of Support Technology in the Face of the Heading Work of Compound Coal Seam Shed	Liu Lidong(73)
Research on Intelligent Cross-swing Control Technology of Mine Roadheading Machine for Comprehensive Mining Working Face	Ge Yawei(76)
Analysis of Mechanical Properties and Adaptability of Two-column Cover Type Hydraulic Support	Yang Jie(79)
EDEM-based Study on the Force and Optimization of Spiral Drum of Coal Mining Machine	Li Ming(81)
Comparison of Coal Mine Ventilation System Optimization Schemes	Zhang Shangwei(84)
Simulation Analysis of Hydraulic System of Cut-off Section of Cantilever Type Roadheader	Ma Xinyi(86)
Improved Design and Evaluation of Ventilation System for Multi-Seam Mining	Liu Feifei(89)
Design of a Self-moving Non-Machine Loaded Excavation Overrun Support Device	Song Mingming(91)
Simulation Study of Hydraulic Control System for Cantilever Swing of Roadheader	Ren Zhiliang(93)
Automatic Speed Control of Coal Mining Machine Based on Fuzzy Control	Mao Huawen(95)
Practice of Roadway Support in Soft Rock Structure Fracture Zone	Zhao Lei(98)
Research on the Technology of Underground Fast Digging Support Device	Geng Zhixin(100)
Design of Hydraulic System of Waterproof Sheet Laying Device for Large and Long Tunnels	Zhang Huijie, Li Mingtao, An Jiantao(102)
Research on Reasonable Stay Width and Support of Coal Pillar in Inclined Coal Seam	Chu Yonghong(104)
Study on Optimization of Parameters in the Middle Chute of Scraper Conveyor	Xu Hao(107)
Process of Over-fault Recovery and Control of Surrounding Rocks in Header Mining Workings	Li Zhizhou(109)
Technology of Rock Support in the End Face of Header Mining Workings	Han Guojie(111)
Research on Top Cutting and Pressure Relief Technology along the Empty Stay Lane	Wei Changbiao(113)
Static Analysis and Structural Optimization of Belt Conveyor Redirecting Roller	Wang Yuqi(116)
Improvement of Rapid Coal Tunneling Process and Temporary Support Equipment	Xu Wenlin(118)
Structural Strength Analysis of Squeeze Turnout Protection Device for Electric Rutting Machine	Wei Kai(120)
Optimization of Coal Sorting Machine Barrel Based on Flow Field Analysis	Zhao Daowen(122)
Analysis and Improvement of Fatigue Fracture Problem of Rotary Cylinder of Coal Mine Boring Machine	

.....	Yang Jian(125)
Analysis of the Influence of Drum cut-off Performance under Complex Coal Seam Conditions	Kou Yan(127)
Simulation Analysis and Optimization of Mining Belt Conveyor Drive Pulley	Li Xiaobo(129)
Optimization of Ventilation System Based on Wind Resistance Parameter Determination	Wang Dashuai(132)
Exploring the Technical Transformation of Mining Multi-rope Friction Hoist	Du Peng(134)
Application of High Prestressing Support Technology in Complex Rock Lane	Guo Jun(136)
Determination of Mine Ventilation System and Optimization of Resistance Reduction	Li Shiqiang(138)
Research on the Support Technology of Back Mining Roadway in Small Coal Column Isolated Working Face	Wu Pengfei(141)
·The Test and Diagnose Technology	
Research on Common Fault Diagnosis Technology of Coal Mine Electromechanical Equipment ...	Zhang Qi(143)
Design of Monitoring and Fault Diagnosis System for a Mine Scraper Conveyor	Zhang Huiyong(146)
Exploration of Fault Diagnosis and Detection Technology of Hydraulic Support in Header Mining Face	Zhao Xiaoyu(148)
Research on Fault Diagnosis Technology of Coal Mine Power Supply System Based on Neural Network	Li Feifei(150)
·The Practice and Application	
Application of On-Line Monitoring System for Hammer in Vibration of Riser on Artificial Island	Fan Xizhe, Chen Guojun, Luo Qingshi, Zhang Jiangkun(152)
Rational Power Consumption Strategy and Simulation Analysis of Coal Mine Drainage Pump ...	Li Pengliang(155)
Research on Intelligent Adaptive Load Reduction Control Strategy for Coal Mining Machine under Sudden Change Working Condition	Liu Yujun(158)
Application Design of Explosion-proof Motor for Coal Mine Based on Microcontroller	Yue Hua(161)
Application of Ventilation and Dust Reduction System for Large Inclination Angle Comprehensive Mining Face in a Coal Mine	Bai Liang(164)
Application of Permanent Magnet Direct Drive System in Coal Mine Belt Machine	Yang Taoqing(167)
Analysis of the Application of Pipeline Explosion Suppression Device in Gas Extraction	Wu Bin(170)
Application and Optimization of AC Frequency Conversion Technology in a Scraper Conveyor ...	Liu Zirong(172)
Implementation and Application of PLC-based Belt Machine Variable Frequency Speed Control Tensioning Device	Chang Yongshun(174)
Application of Rapid Retraction Process for Hydraulic Support at Header Working Face	Zhang Rui(177)
Exploration of Video+intelligent Application of Continuous Mining Machine Based on 5G Communication Technology	Zhao Jun(179)
Coal Processing Plant Optimization of Sorting System	Dong Yongjie(181)
Application of Rock Support Technology in the Stress Zone of Tunneling Roadway	Sun Junquan(183)
Research on Overhead Occupant Distance Control Device	Zhu Kunpeng(185)
Application of Deep Hole Pre-cracking Blasting Technology for Working Face over Trap Column	Wei Zhiqiang(188)
Study on the Technical Scheme of Retraction of Hydraulic Support in Underground Coal Mine	Gao Bin(190)
Application of Intelligent Monitoring System for Coal Slurry Pump in Coal Processing Plant of Two Ferry Mines	Xu Kewu(192)
Application of Semi-fluid Grease Pressure Monitoring and Protection Device	Wu Peng(195)
Hydraulic Support Failure Prediction Study	Wang Ying(197)
Discussion on the Safe Retraction Process of Hydraulic Support at the Heaving Face	Zhang Heping(200)
Iron Coal Group Tieqiang Environmental Protection Company Daxing Brick Plant Packing Line Return System Renovation	Yue Xingyu(202)
Analysis of the Causes of Damage to the Surrounding Rock of Large Depth Mine Tunnel and Research on Support Technology	Zhang Wenpeng(204)
Application Research of Inverter Intelligent Drive Control System on Belt Conveyor	Li Bin(206)
Application of PLC in the Frequency Control System of a Mine Hoist	Duan Lipeng(208)
Application of Fiber Optic Temperature Measurement in Temperature Monitoring along the Belt Transportation Line in Underground Coal Mines	Chen Ruili(211)
Analysis of the Transformation and Effect of Mine Ventilation System	Zhao Wenhua(213)
Effect of Grouting Reinforcement on the Roof and Coal Wall of Header Working Face	Liang Hong(215)
Application of Combined Anchor Injection Support in Deep Large Section Roadway Rock Surrounding Control	Yang Junxiang(217)
·Automation Technology and Design	
Design and Research on Remote Control and Condition Monitoring System of Electric Traction Coal Mining Machine	Wang Junxin(219)
Application Analysis of Intelligent Monitoring System for Mining Main Ventilator	Yu Pengfei(222)
Design of Safe Overhead Rider System for Underground Coal Mines	Zhang Xingbo(224)
Optimization Design of Induction Rope Winch Transport Control System	Sun Qizheng(227)
Research on Adaptive Control System of Hydraulic Support at Working Face	Ma Tengfei(230)

Research on Full Hydraulic Automatic Tensioning Control System of Scraper Conveyor	Wang Ruiqin(232)
Design and Application Research of Noise-Resistant Communication System for Ships	Yan Chunzhi, Xiao Hongbin(235)
Research on Intelligent Joint Control General Mining Technology of Main General Mining Equipment in Coal Mines	Chen Lu(237)
Application of CAN Bus in Electro-Hydraulic Control System of Hydraulic Support	Dong Weihong(239)
Design of Remote Monitoring and Early Warning System for Air Compressors	Gao Yu(241)
Design of High Efficiency Filtration Equipment and Control System for Coal Slurry Water in Coal Processing Plant	Wang Wenbin(244)
Design and Research of Remote Monitoring and Positioning System of Underground Motor Vehicles in a Coal Mine	Zhang Junren(246)
Application of Intelligent Monitoring System for Multi-Rope Friction Hoist Skywheel	Zhang Guanghui(249)
Design and Development of Transmission System for Rubber Mixing Sheet Cooling Unit	Ke Liang, Huang Feifei(251)
Design of an Adaptive Coal Mining Machine Cable Dragging Device for Followers	Shi Yanbin(254)
Design and Application of Energy-saving Control System for Mining Belt Conveyor	Wu Hongguang(256)
Design of Energy-saving Control System of a Belt Conveyor	Guo Kai, Cui Shijie, Cao Yong'ai(259)
Research on Intelligent Control System of Belt Conveyor in Coal Processing Plant	Ouyang Ziwen(261)
Research on Automatic Cut-Off Control System of Mining Roadheading Machine	Han Wei(263)
Design and Application of Automatic Control System of Mine Belt Conveyor	Wang Xiaofei(266)
Structure Design of Intelligent Inspection Robot in Coal Preparation Plant	Cao Xuelei(268)
Study on Energy Saving Optimization of Long Distance Belt Conveyor	Yang Xue(271)
CAN Bus Based Electro-Hydraulic Control System Design for Thin Coal Seam Hydraulic Support ...	Tian Wei(273)
Automation Control Technology of Coal Mining Machine in Header Working Face	Li Xuebing(275)
Design of DC Speed Control System for Sub Shaft Hoist	Lai Chun(278)
•Subjects and Summaries•	
Study on Modification and Application of Biochemical Treatment System in Changcun Coal Mine Sewage Treatment Station	Dong Jixin(280)
Research on Mechanical Design and Manufacturing Process and Precision Machining Technology ...	Li Shaoyang(282)
Analysis of Key Technologies for 3D Printing of Mechanical Workpieces	Peng Qiulin(285)
Research on Remote Visualization Control Technology System of Coal Mine Comprehensive Mining Working Face	Li Zhiwang(288)
Mining Explosion-proof Electrical Combination Switch Structure and Application Advantages ...	Zhao Yuyu(291)
Strategies to Improve the Teaching Efficiency of Mechanical CAD Courses in Secondary Schools	Wang Yixia(293)
Research on Equipment Support for Heaving Working Face	Wu Wencai(295)
Application of GB/T 36697-2018 Discard Qualification for Ladle Crane in the Production Practice	Zhou Jihong(297)
Research and Application of Automation Technology for Header Mining Working Face ...	Zhou Yongsheng(299)
Analysis and Research of a New Small Type of Drilling and Milling Center Machine	Xu Jianfeng(302)
TSI Upgrade of 350MW Supercritical Coal-fired Turbine Generator Unit	Wang Wei(304)
Research on Equipment Support for Header Working Face	Wang Lu(307)
Study on the Zero Section Life of Large Continuous Casting Machine Fan Section	Wang Liyuan, Liu Zhanfeng, Yue Zhikun(309)
Optimization Study of the Repair Process of Hydraulic Support	Jia Lili(312)
Research on the Integrated Construction Technology of Rapid Retraction and Installation of Coal Mining Working Face	Liu Yan(314)
An Improvement Method of Flange for Transmission with Hydraulic Retarder	Wen Jinfang(317)
Design of Integrated Automation System in Coal Mine	Guo Qiang(319)
Analysis of Fluid Contamination in Hydraulic Support System of Header Working Face	Chen Long(321)
•The Experience Exchange•	
Failure Analysis of Side Push Separation Mechanism of Gearbox	Wei Xia(323)
Study on Safety and Security Measures for Low Concentration Gas Power Station	Dong Ziliang(325)
Common Faults of Hydraulic Support in Coal Mine and Its Maintenance Strategy	Li Xiaomin(328)
Failure Analysis and Repair of QT Straight Conjugate Internal meshing Gear Pump	Hu Yandong (331)
Inner-ring Failure-improvement of JL-2 Transmission Output-shaft Bearing	Zhao Qingbi, Ma Yong, Sun Feng, Guo Qiuyan, Sun Zhen, Zhang Chenxin(333)
Control Technology of Large Gangue in Fully Mechanized Coal Mining Face	Zhao Rong(335)
Failure Mode and Influence Analysis of Crane	Huo Guilong, Wang Zhen, Hu Dunzhong(337)
Exploration of Mine Ventilation Fan Maintenance and Main Troubleshooting Methods	Kou Lina(340)
Research on the Causes and Prevention Measures of Water Seepage in Underground Coal Mines ...	Zhai Bushuan(342)
Analysis of the Causes of Belt Deviation of Belt Conveyor and Research on Automatic Deviation Correction Measures	Chen Wei(345)
Scraper Conveyor Decline Problems and Prevention Methods	Guo Wei(347)
Failure Analysis and Optimization Measures of Coal Mine Scraper Conveyor Chute	Duan Shanpu(349)



志在蓝天，创造辉煌

诚信 担当 互赢

创造美好生活 携手走向成功

山西成功通用航空股份有限公司位于山西省长治市，注册资本 1.5 亿，具有民航局批准的 CCAR-135 部、CCAR-91 部、CCAR-145 部资质，2015 年 12 月在“新三板”挂牌上市，为全国首家固定翼通用航空上市公司。公司下辖广州分公司和 1 家全资子公司、1 个 CCAR-145 部维修单位。

公司现有各型飞机 24 架，现有飞行员 32 名，机务维修人员 30 名。主要服务于具有通用航空服务需求的政府部门、企事业单位及其他高端客户，主营人工影响天气、大气物理探测、应急救援、航空护林灭火、短途客运、飞行驾驶执照培训、空中游览、空中跳伞、体验飞行、航拍航测、公务机托管与地面服务代理等业务。

综合部：0355-3016810
市场部：0355-3033778

公司邮箱：cgtlyhk@163.com
公司网站：www.cgtlyhk.com

山西省长治市城东路 102 号

万方数据