

# 采矿与安全工程学报

2019 年 第 36 卷 第 3 期

## 目 次

考虑剪胀与中间主应力的被锚巷道围岩稳定性分析 .....	谷拴成,周攀,孙魏,等	(429)
深部巷道钻孔卸压围岩弱化变形特征与蠕变控制 .....	王猛,郑冬杰,王襄禹,等	(437)
大断面综放沿空巷道基本顶破断结构与围岩稳定性分析 .....	郭金刚,王伟光,何富连,等	(446)
深井软岩下山巷道群非对称破坏机理与控制研究 .....	刘帅,杨科,唐春安	(455)
深部沿空巷道顶板蝶叶塑性区“低阻微变”性形成机理研究 .....	李季,彭博,袁鹏	(465)
煤巷顶板锚固孔钻进钻杆振动特性数值模拟研究 .....	付孟雄,刘少伟,范凯,等	(473)
高应力软岩巷道全长锚固玻璃钢锚杆受力特征研究 .....	王文杰,万浩	(482)
浅埋煤层大采高工作面支架合理初撑力确定 .....	黄庆享,徐璟,杜君武	(491)
松散层拱结构模型及其对覆岩运动的影响 .....	汪锋,许家林,陈绍杰,等	(497)
综放工作面充填过空巷顶板失稳机理及控顶研究 .....	徐青云,宁掌玄,朱润生,等	(505)
动压影响下双断层区域覆岩运移特征研究 .....	王宏伟,姜耀东,江灿,等	(513)
芦沟煤矿软硬交互覆岩放顶煤开采导水裂缝带高度研究 .....	郭文兵,娄高中,赵保才	(519)
弓长岭东南区塌陷坑后续开采岩移规律研究 .....	何荣兴,付煜,任凤玉,等	(527)
黑岱沟露天矿端帮压煤井工开采覆岩与地表变形破坏规律研究 .....	吕进国,韩阳,南存全,等	(535)
考虑服务年限的露天矿边坡时变目标可靠度研究 .....	吴顺川,张化进,肖术,等	(542)
煤层底板承压水导升监测系统研发与应用 .....	张培森,武守鑫,颜伟,等	(549)
基于改进 AHP 法与模糊可变集理论的煤层底板突水危险性评价 .....	王心义,姚孟杰,张建国,等	(558)
考虑脆性损伤和水力耦合影响的立井井壁临界突水水压理论解 .....	薛维培,李昊鹏,姚直书,等	(566)
火成岩顶板对工作面冲击地压影响的理论分析 .....	李强,王继仁,韩昌良	(574)
软硬组合煤体塑性破坏与突出能量失稳判据 .....	卢守青,张永亮,撒占友,等	(583)
典型矿区固体混合充填材料力学特性试验研究 .....	兰立信,李猛,张强,等	(593)
组合胶结充填体力学特性试验与应用研究 .....	曹帅,薛改利,宋卫东	(601)
固体充填回收房式煤柱塑性区及应力演化特征 .....	安百富,余伟健,吴根水,等	(609)
劈裂损伤岩石胶结强化的蠕变特性与失稳模式 .....	辛亚军,吕鑫,郝海春,等	(617)
花岗岩岩爆声发射时空熵值动态特征实验研究 .....	王春来,廖泽锋,李长峰,等	(626)
煤岩瓦斯固气耦合相似材料瓦斯吸附特性研究 .....	李树刚,赵波,赵鹏翔,等	(634)
《采矿与安全工程学报》2019 年第 1 期 Ei 收录情况 .....		(565)
“2019 科学采矿论坛”暨“第二十届矿压理论与实践研讨会”通知 .....		(582)

期刊基本参数: CN32-1760/TD\*1984\*b\*A4\*216\*zh\*P\*¥50.00\*1500\*26\*2019-05 执行编辑: 王江涛 英文编辑: 高行珍

## Contents

Analysis of surrounding rock stability of bolted roadway considering dilatancy and intermediate principal stress .....	<i>GU Shuancheng, ZHOU Pan, SUN Wei, et al</i>	(429)
Deformation characteristics and creeping control of deep roadway with pressure-relief borehole .....	<i>WANG Meng, ZHENG Dongjie, WANG Xiangyu, et al</i>	(437)
Main roof break structure and surrounding stability analysis in gob-side entry with fully-mechanized caving mining .....	<i>GUO Jingang, WANG Weiguang, HE Fulian, et al</i>	(446)
Asymmetric failure mechanism and control of downhill roadway group of soft rock in deep mine .....	<i>LIU Shuai, YANG Ke, TANG Chun'an</i>	(455)
A formation mechanism of “low resistance and slight change” in plastic zone of butterfly leaf on the roof in deep roadway .....	<i>LI Ji, PENG Bo, YUAN Peng</i>	(465)
Numerical simulation research on vibration characteristics of drill rod when drilling roof bolt hole .....	<i>FU Mengxiong, LIU Shaowei, FAN Kai, et al</i>	(473)
Mechanical characteristics analysis of fully grouted GFRP rock bolts in highly stressed soft rock tunnels .....	<i>WANG Wenjie, WAN Hao</i>	(482)
Determination of support setting load of large-mining-height longwall face in shallow coal seam .....	<i>HUANG Qingxiang, XU Jing, DU Junwu</i>	(491)
Arch structure in unconsolidated layers and its effect on the overlying strata movement .....	<i>WANG Feng, XU Jialin, CHEN Shaojie, et al</i>	(497)
Study on instability mechanism and top control of overfilled roof in fully mechanized caving face .....	<i>XU Qingyun, NING Zhangxuan, ZHU Runsheng, et al</i>	(505)
Characteristics of overlying strata movement in double fault area under the dynamic pressure .....	<i>WANG Hongwei, JIANG Yaodong, JIANG Can, et al</i>	(513)
Study on the height of water-conductive fracture zone in alternate overburden of soft and hard with top coal caving mining in Lugou coal mine .....	<i>GUO Wenbing, LOU Gaozhong, ZHAO Baocai</i>	(519)
Strata movement law of subsequent mining of collapse pit in southeast mining area of Gongchangling iron mine .....	<i>HE Rongxing, FU Yu, REN Fengyu, et al</i>	(527)
The law of deformation and fracture of ground surface and overlying strata with underground mining coal seam compressed at end slope in Heidaigou open-pit mine .....	<i>LYU Jinguo, HAN Yang, NAN Cunquan, et al</i>	(535)
Study on time-varying target reliability of open-pit slope considering service life .....	<i>WU Shunchuan, ZHANG Huaqin, XIAO Shu, et al</i>	(542)
Development and application of the monitoring system for the confined water upflowing in the coal seam floor .....	<i>ZHANG Peisen, WU Shouxin, YAN Wei, et al</i>	(549)
Evaluation of water bursting in coal seam floor based on improved AHP and fuzzy variable set theory .....	<i>WANG Xinyi, YAO Mengjie, ZHANG Jianguo, et al</i>	(558)
Theoretical solutions to critical water inrush pressure in vertical shaft lining under the influence of brittle damage and hydraulic coupling .....	<i>XUE Weipei, LI Haopeng, YAO Zhishu, et al</i>	(566)
Theoretical analysis on influence of igneous rock roof on rockburst of working face .....	<i>LI Qiang, WANG Jiren, HAN Changliang</i>	(574)
Criterion of plastic failure and outburst energy instability of soft and hard composite coal .....	<i>LU Shouqing, ZHANG Yongliang, SA Zhanyou, et al</i>	(583)
Experimental study on mechanical properties of solid mixed filling materials in typical mining areas .....	<i>LAN Lixin, LI Meng, ZHANG Qiang, et al</i>	(593)
Experimental research on mechanical properties of combined cemented tailings backfill and its application .....	<i>CAO Shuai, XUE Gaili, SONG Weidong</i>	(601)
Plastic zone and stress evolution of pillars in working face with solid backfilling mining to recover room coal pillars .....	<i>AN Baifu, YU Weijian, WU Genshui, et al</i>	(609)
Instability mode and creep characteristics of cementation of rock with splitting damage .....	<i>XIN Yajun, LYU Xin, HAO Haichun, et al</i>	(617)
Experimental investigation of dynamic characteristics of AE spatio-temporal entropy for granitic rockburst .....	<i>WANG Chunlai, LIAO Zefeng, LI Changfeng, et al</i>	(626)
Gas adsorption characteristics of similar materials with solid and gas couple of coal and gas .....	<i>LI Shugang, ZHAO Bo, ZHAO Pengxiang, et al</i>	(634)