

第39卷 第4期
ISSN 1672-3767
CN 37-1357/N
CODEN SDZKF7

山东科技大学

Journal of Shandong University of Science and Technology

学报

Natural Science
自然科学版

- 全国中文核心期刊
- 中国科技核心期刊
- 中国高校优秀科技期刊
- 华东地区优秀期刊
- 山东省优秀期刊



4
2020

山东科技大学

学报 自然科学版

双月刊 1979 年创刊
第 39 卷 第 4 期 总第 189 期
2020 年 8 月出版

目次

地下与隧道工程

地下工程安全建设面临的机遇与挑战

..... 李利平,成 帅,张延欢,屠文锋(1)

深埋隧道强烈岩爆孕育微震主频演化规律

..... 肖亚勋,李小亮(14)

采矿工程与岩石力学

深部矿井应力主导型煤岩瓦斯动力灾害声发射监测预警方法

..... 李建功(20)

完整岩石单轴抗压强度确定方法研究

..... 薛东杰(28)

动力灾害过程中锚杆支护的极限承载能力数值模拟研究

..... 魏明尧,张守文(37)

冲击载荷作用下端锚锚杆动态力学性能模拟研究

..... 张玉宝,赵 晨,张子健(46)

能源开采与储运

高杂质盐矿已有溶腔大规模储气技术研究进展

..... 施锡林,马洪岭,章雨豪(55)

垂直管道内液-固两相流动的压降和相分布特征

..... 张 健,张 栋,邱 月(66)

盐穴储气库垫底气利用方案研究 马洪岭,施锡林,章雨豪(72)

超临界 CO₂ 吸附诱发煤力学性质劣化的双重损伤效应分析

..... 刘力源,马文成,王卫东(79)

岩土工程与地基基础

着陆器足垫与月壤竖向冲击简化动力学模型

..... 钟世英,凌道盛(87)

竖向抗压桩承载机理与受力特性分析方法

..... 张乾青(93)

固体力学

界面性能对层状结构材料力学行为的影响

..... 彭志龙,杨 爽,陈少华(106)

块体可动性判断的几何算法研究 徐栋栋,李 波(113)

Journal of Shandong University of Science and Technology Natural Science

No 4 2020

- Opportunities and challenges of construction safety in underground engineering projects
..... LI Liping , CHENG Shuai , ZHANG Yanhuan , TU Wenfeng (1)
- Evolution of microseismic main frequency during intensive rockburst development in deep tunnel
..... XIAO Yaxun , LI Xiaoliang (14)
- Acoustic emission monitoring and early warning method for stress-dominated coal-gas dynamic
disasters in deep mines LI Jiangong (20)
- Determination of uniaxial compressive strength of intact rock
..... XUE Dongjie (28)
- Simulation study of maximum bolt supporting capacity during dynamic disaster
..... WEI Mingyao , ZHANG Shouwen (37)
- Simulation study on dynamic mechanical property of end-grouted rockbolt under impact loading condition
..... ZHANG Yubao , ZHAO Chen , ZHANG Zijian (46)
- Advances of large-scale gas storage technology in existing salt caverns in high-insoluble salt formations
..... SHI Xilin , MA Hongling , ZHANG Yuhao (55)
- Investigation on pressure drop and phase distribution of liquid-solid two-phase vertical pipe flow
..... ZHANG Jian , ZHANG Dong , QIU Yue (66)
- Research on the withdrawal of cushion gas in salt cavern gas storage
..... MA Hongling , SHI Xilin , ZHANG Yuhao (72)
- Dual damage mechanism of supercritical CO₂ adsorption-induced weakening effect on coal
..... LIU Liyuan , MA Wencheng , WANG Weidong (79)
- Simplified vertical impact dynamic model of landing foot pad and lunar soil
..... ZHONG Shiyong , LING Daosheng (87)
- Bearing mechanism and response analysis method of vertically loaded piles
..... ZHANG Qianqing (93)
- Effect of interface property on mechanical behavior of layered materials
..... PENG Zhilong , YANG Shuang , CHEN Shaohua (106)
- Study on geometric algorithm for judging block removability
..... XU Dongdong , LI Bo (113)