

煤田地质与勘探

MEITIAN DIZHI YU KANTAN

2023年第1期

(月刊 1973年创刊)

第51卷 总301期

庆祝《煤田地质与勘探》创刊50周年特刊(上)

目 次

·院士专栏·

- 煤田绕射地震勘探现状与进展 彭苏萍, 赵惊涛, 盛同杰, 杨 婕, 陶俊宏(1)
TBM施工巷掘探一体化技术研究进展与思考 袁 亮, 张平松(21)
煤炭绿色开发地质保障体系的构建 王双明, 耿济世, 李鹏飞, 孙 强, 范章群, 李 丹(33)

·煤炭地质 矿井地质·

- 煤矿智能化关键技术研究与实践 王海军, 曹 云, 王洪磊(44)
煤炭开发工程“五化协同”模式研究 范京道, 黄克军, 李 川, 刘 渭, 宋 岳, 闫振国(55)
煤系战略性金属元素富集成矿的构造控制 曹代勇, 魏迎春, 秦国红, 宁树正, 王安民, 张 眇, 李 新, 位金昊, 徐来鑫(66)
我国煤矿地质保障系统建设30年:回顾与展望 贾建称, 贾 茜, 桑向阳, 吴 艳(86)
富油煤原位热解开发地下体系封闭方法探讨 郭 威, 刘 召, 孙友宏, 李 强, 邓孙华(107)

·煤系气 煤伴生矿产·

- 鄂尔多斯盆地东缘深部(层)煤层气勘探开发理论技术难点与对策
... 徐凤银, 闫 霞, 李曙光, 熊先钱, 王予新, 张 雷, 刘川庆, 韩金良, 冯延青, 甄怀宾, 杨贊, 王成旺, 李宇新(115)
复杂地质条件下煤层气高效开发实践与认识——以沁水盆地郑庄区块为例
... 朱庆忠, 李志军, 李宗源, 王三帅, 孙瑞雪, 王玉婷, 肖宇航, 王 静, 王景悦, 关小曲(131)

- 我国煤矿区煤层气地面开发现状及技术研究进展
... 张 群, 降文萍, 姜在炳, 孙四清, 李彬刚, 杜新锋, 巫修平, 赵继展, 范 耀, 范章群, 韩保山, 许耀波, 刘柏根(139)
中国煤炭甲烷管控与减排潜力 桑树勋, 刘世奇, 韩思杰, 郑司建, 刘 统, 周效志, 王 冉, 王 猛(159)
CO₂强化煤层气产出与其同步封存实验研究 苏现波, 黄 津, 王 乾, 于世耀(176)

·水文地质 工程地质 环境地质·

- 煤层底板水害超前区域治理理论框架与关键技术
... 董书宁, 刘其声, 王 皓, 郭小铭, 柳昭星, 郑士田, 南生辉, 刘建林, 赵 兆, 石志远(185)
论保水采煤技术体系 范立民, 孙 强, 马立强, 李 涛, 陈海富, 蒋泽泉(196)
黄陇煤田煤层顶板水害特征及其防控技术
... 靳德武, 李超峰, 刘英锋, 曹海涛, 任邓君, 王红亮, 张金魁, 黄 阳, 杨国栋, 郭 康, 樊 敏, 刘宸铠(205)
矿井水灾害:原因·对策·出路 尹尚先, 王玉国, 李文生(214)
国内外矿井水处理及资源化利用研究进展
... 王 皓, 董书宁, 尚宏波, 王甜甜, 杨 建, 赵春虎, 张 全, 周振方, 刘 基, 侯 悅(222)
煤矿采空区水-岩作用模拟试验研究
... 孙亚军, 赵先鸣, 徐智敏, 郭 娟, 张 莉, 陈 歌, 陈天赐, 朱璐璐, 高雅婷, 陈炜阳(237)

·煤田物探 矿井物探·

- 从1D到4D:煤田地震勘探的技术进步及启示 程建远, 张宪旭, 蒋必辞, 王 盼, 单 蕊(247)
矿井电法勘探研究现状与发展趋势 岳建华, 杨海燕, 冉华赓(259)
地震勘探高分辨率资料处理的挑战与对策 曹思远, 孙耀光, 陈思远(277)
基于全卷积神经网络的钻孔瞬变电磁法岩层富水性预测研究 程久龙, 王慧杰, 徐忠忠, 黄琪嵩, 姜国庆(289)

·钻掘工程·

- 煤矿井下连续管钻进管柱分析及射流钻进实验 姚宁平, 王 力, 张金宝, 豆旭谦, 魏宏超(298)
煤矿掘进工作面低照度视频增强技术研究
... 张旭辉, 杨红强, 白琳娜, 石 硕, 杜呈阳, 张 超, 万继成, 杨文娟, 毛清华, 董 征(309)

期刊基本参数: CN 61-1155/P*1973*m*A4*316*zh*P* ¥ 40.00*1500*25*2023-01 本期执行编辑: 周建军

2023年1月25日出版

公开发行

邮发代号: 52-14

国内定价: 40.00元

CONTENTS

Status and advance of seismic diffraction exploration in coalfield	PENG Suping, ZHAO Jingtao, SHENG Tongjie, YANG Jie, TAO Junhong(1)
Research progress and thinking on integrated tunneling and detection technology of rock roadway with TBM	YUAN Liang, ZHANG Pingsong(21)
Construction of geological guarantee system for green coal mining	WANG Shuangming, GENG Jishi, LI Pengfei, SUN Qiang, FAN Zhangqun, LI Dan(33)
Research and practice on key technologies for intelligentization of coal mine	WANG Haijun, CAO Yun, WANG Honglei(44)
The mode of “Five Modernization and Cooperation” in coal development project	FAN Jingdao, HUANG Kejun, LI Chuan, LIU wei, SONG Yue, YAN Zhengguo(55)
Tectonic control on enrichment and metallogenesis of strategic metal elements in coal measures	CAO Daiyong, WEI Yingchun, QIN Guohong, NING Shuzheng, WANG Anmin, ZHANG Yun, LI Xin, WEI Jinhao, XU Laixin(66)
Review and prospect of coal mine geological guarantee system in China during 30 years of construction	JIA Jiancheng, JIA Qian, SANG Xiangyang, WU Yan(86)
Discussion on underground system sealing methods in in-situ pyrolysis exploitation of tar-rich coal	GUO Wei, LIU Zhao, SUN Youhong, LI Qiang, DENG Sunhua(107)
Theoretical and technological difficulties and countermeasures of deep CBM exploration and development in the eastern edge of Ordos Basin	XU Fengyin, YAN Xia, LI Shuguang, XIONG Xianyue, WANG Yuxin, ZHANG Lei, LIU Chuangqing, HAN Jinliang, FENG Yanqing, ZHEN Huaibin, YANG Yun, WANG Chengwang, LI Yuxin(115)
Practice and cognition of efficient CBM development under complex geological conditions: A case study of Zhengzhuang Block, Qinshui Basin	ZHU Qingzhong, LI Zhijun, LI Zongyuan, WANG Sanshuai, SUN Ruixue, WANG Yuting, XIAO Yuhang, WANG Jing, WANG Jingyue, GUAN Xiaoqu(131)
Present situation and technical research progress of coalbed methane surface development in coal mining areas of China	ZHANG Qun, JIANG Wenping, JIANG Zaibing, SUN Siqing, LI Bingang, DU Xinfeng, WU Xiuping, ZHAO Jizhan, FAN Yao, FAN Zhangqun, HAN Baoshan, XU Yaobo, LIU Baigen(139)
Coal methane control and its emission reduction potential in China	SANG Shuxun, LIU Shiqi, HAN Sijie, ZHENG Sijian, LIU Tong, ZHOU Xiaozhi, WANG Ran, WANG Meng(159)
Experimental study on CO ₂ -enhanced coalbed methane production and its simultaneous storage	SU Xianbo, HUANG Jin, WANG Qian, YU Shiyao(176)
Theoretical framework and key technology of advanced regional control of water disaster in coal seam floor	DONG Shuning, LIU Qisheng, WANG Hao, GUO Xiaoming, LIU Zhaoxing, ZHENG Shitian, NAN Shenghui, LIU Jianlin, ZHAO Zhao, SHI Zhiyuan(185)
Technological system of water-conserving coal mining	FAN Limin, SUN Qiang, MA Liqiang, LI Tao, CHEN Haifu, JIANG Zequan(196)
Characteristics of roof water hazard of coal seam in Huanglong Coalfield and key technologies for prevention and control	JIN Dewu, LI Chaofeng, LIU Yingfeng, CAO Haitao, REN Dengjun, WANG Hongliang, ZHANG Jinkui, HUANG Yang, YANG Guodong, GUO Kang, FAN Min, LIU Chenkai(205)
Cause, countermeasures and solutions of water hazards in coal mines in China	YIN Shangxian, WANG Yugu, LI Wensheng(214)
Domestic and foreign progress of mine water treatment and resource utilization	WANG Hao, DONG Shuning, SHANG Hongbo, WANG Tiantian, YANG Jian, ZHAO Chunhu, ZHANG Quan, ZHOU Zhenfang, LIU Ji, HOU Yue(222)
Simulation test on water-rock interaction in coal mine goaf	SUN Yajun, ZHAO Xianming, XU Zhimin, GUO Juan, ZHANG Li, CHEN Ge, CHEN Tianci, ZHU Lulu, GAO Yating, CHEN Weiyang(237)
From 1D to 4D: Technical progress in seismic exploration of coal field and its enlightenment	CHENG Jianyuan, ZHANG Xianxu, JIANG Bici, WANG Pan, SHAN Rui(247)
Research status and development trend of mine electrical prospecting	YUE Jianhua, YANG Haiyan, RAN Huageng(259)
Challenges and strategies of high-resolution data processing in seismic exploration	CAO Siyuan, SUN Yaoguang, CHEN Siyuan(277)
Research on aquifer water abundance evaluation by borehole transient electromagnetic method based on FCNN	CHENG Jiulong, WANG Huijie, XU Zhongzhong, HUANG Qisong, JIANG Guoqing(289)
Analysis and jet drilling test of coiled tubing drilling string for underground coal mine	YAO Ningping, WANG Li, ZHANG Jinbao, DOU Xuqian, WEI Hongchao(298)
Research on low illumination video enhancement technology in coal mine heading face	ZHANG Xuhui, YANG Hongqiang, BAI Linna, SHI Shuo, DU Yuyang, ZHANG Chao, WAN Jicheng, YANG Wenjuan, MAO Qinghua, DONG Zheng(309)