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试验,研究

基丁 CFD 模拟的巷道风速监测值修正处理 地下坑道瓦斯热着火实验研究 煤低温氧化表而官能闭与温度的 B 型关联度分析 基于 CFD 对采空区"三场"的数值模拟 利用时序 SAR 影像集监测开采沉陷的试验研究 高瓦斯综放工作面均衡开采技术的模拟

技术,创新

保护层开采瓦斯综合治理与利用技术 采煤工作面上隅角瓦斯治理技术 基于 Ventsim 系统的煤矿三维通风仿真技术 大雁二矿综放工作面自然发火防治技术 浅埋易自燃煤层防灭火关键技术 三河口矿瓦斯异常区综合防灭火技术 南翼轨道运输石门工作面突水"夹层"注浆堵水技术 深井核心硐室"二次锚网注"制岩控制技术 缓倾斜不等长综采工作面旋转回采工艺及技术管理 基于 RMRS 的煤矿救损准确钻井技术 深部开采冲击地压发生机理及防治技术 超高水材料液压支架后挂袋充填技术

设计·开发

瓦斯引爆能量自动测控装置 基于 DSP 双电源双风机控制装置的设计 单一突出煤层瓦斯治理辅助设计系统 防止煤矿斜巷矿车误入其他巷道的安全监控装置 基于 MSP430 的井下瓦斯测量及无线传输系统设计 一种远程矿井瓦斯浓度检测仪的设计 矿山救护队救援车辆定位管理系统 基于虚拟仪器的矿井提升机监控系统 虚拟煤矿安全培训系统的设计与实现

钻屑增量指标在大采深高瓦斯矿井灾害预测中的应用 大直径顺层条带预抽煤层瓦斯消突技术在顾北矿的应用 均压通风防灭火技术的应用实践 高分子复混溶胀胶体防治岩巷揭煤冒落空洞煤炭自燃 放顶煤工艺条件下上行开采可行性评价及实践

瓦斯抽放与通风安全自动综合监测在采煤工作面的实践

单一低透气性煤层水力压裂技术增透效果考察分析

煤矿安全监控系统控制功能的扩展

分析·探讨

煤矿瓦斯爆炸事故鱼刺图分析 煤自燃反应微观机理过程论 高瓦斯综放工作面采空区自燃危险区域分析 平禹一矿通风系统优化分析 我国煤矿在用主要通风机系统运行现状及对策 基于 KICA-SVM 的矿用主要通风机故障诊断 对煤矿用电缆火灾事故的思考 孟巴矿地热特点及成因分析和治理 综放开采采场支承压力分布规律的相似模拟 常村矿 3"煤构造煤分布及其成因探讨 近距离煤层下层煤顶板结构力学分析

监察·管理

煤矿安全管理能力构成要素 SEM 建模研究 大利矿井建设工程安全监理 基于综合评价的煤矿本质安全管理系统 煤矿职工不安全行为分析与对策

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