

Research on Monitoring and Warning System for Mine Water Disaster

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Abstract Following the principles of early security warning, based on the induced factors of the mine roof and floor water disasters, this paper has constructed an early security warning system for mine face water disasters combined with the actual needs of coal production. The three-tier concept of warning system for water disaster was proposed. The hydrological data could be communicated by combining Industrial Ethernet and GSM network, and also shared by using computer networks. This system helps to reduce the incidence of mine water disaster, and to provide the strong support for mine water control work.

Keywords mine roof and floor water disaster, early security warning system, data sharing