



Prevention and Control of Coal Mine Gas Disasters

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Message from the Guest Editors

Presently, coal is one of the main energy sources in the world, but many disasters occur in the process of coal mining. Gas disasters are one of the most common and destructive coal mine disasters. Due to the depletion of shallow resources in recent years, the mining depths in coal mines increase year by year. Coupled with the presence of micro-pores, low-permeability and high adsorption of coal seams being common conditions, the problem of gas in mining has become one of the main issues that restricts the safe development of mines. As a result, the key principle of safe coal mining is effective gas disaster prevention and management. The uncertainty, high frequency and high risk of mine gas disasters are determined by the evaluation of complicated mining conditions and the law of gas migration and distribution. Gas combustion and explosion, gas ejection, coal and gas outbursts, gas suffocation, and other gas disasters are typical in underground coal mining. These disasters not only reduce mining efficiency but also put underground workers in danger.





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