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内容概要

Huainan Mining Group Co. Ltd. locates in the interior of economically developed regions in north central Anhui province, east China. It has advantageous location and convenient transportation. Huainan coal mine area is about 100 km long, 30 km wide, and about 3 000 km², its coal reserves is 50.1 billion tons, and reserve of gas is 592.8 billion m³. It is the typical coal mine area in our country whose gas content is high, permeability for gas is low, coal seam is soft and geological conditions are complex, thus the gas accidents were common. Before 1998, the gas drainage volume was only 5 200 000 m³ per year due to the low efficiency of gas drainage. In order to change this bad situation, Huainan Mining Group united with China University of Mining & Technology and China Coal Research Institute to tackle the key problem of gas control from 1998, and set up an integrated technical system to control gas. The gas drainage volume of 2006 was 173 million m³; the output of raw coal was 33 830 000 t, and the death rate per million tons of coal reduced to 0.18. So far, there are 38 000 domestic gas users in Huainan Mining Group. The total reserve of gas is 200 000 m³, and the gas power installation capacity is 32 000 kW. The gas control conceptions of "mining the protective layer when possible, trying to drain gas when ought to, draining before mining" and "expanding money input, appreciating the utilization and promoting draining by using" were quoted by 50 tips on coal mine gas control. Recently, Huainan Mining Group associates many research institutes and enterprises from Germany, Australia and Japan to promote the international exchange and cooperation actively, and conduct the research and development work in the aspect of gas control and utilization.

书籍目录

Part 1 Comprehensive Gas Control Technology Gas Control and Utilization in Huainan Mining Area Status Quo of and Countermeasures for Gas Outburst in Coal Mines of China Gas Drainage in High Efficiency Workings in German Coal Mines Overview of the JCOAL Project on Safety Integrated Approach to Mine Gas Emission Prediction Electromagnetic Radiation Technology for Coal or Rock and Its Application High Performance Longwall Mining in Deep and Methane-rich Coal Deposits in Germany Taking into Account Methods and Technologies for Controlling the Calculated Gas Liberation Development of Regional Gas Control Technology in Chinese Coal Mines Comprehensive Controlling of Gas in Mining Multiple Coal Seams with High Methane Content and Low PermeabilityPart 2 Technology of Gas Drainage and Utilization Predegassing of Coal Seams in German Hard Coal Mines Applications of CFD Simulations for Mine Gas and Spontaneous Heatings Control in Underground Coal Mines Study of Gas Delivery Feature Influenced by Movement of the Surrounding Rock of Fully-Mechanized Top Coal Caving Medium Radius Drilling, an Emerging Gas Drainage Technology On the Effect of the Mining Fissure in the Super-remote Protected Seams to the Pressure-relief Gas Drainage Mine Gas Control Technologies and Practices in Australia Study on the Evolution Law of Mining Coal Permeability Modelling of Gas Flow in Fractured Rock and Coal Technical Options for Diluted Mine Methane Mitigation and Utilisation Liquefaction and Purification of Coal Gas and Its Utilization The Analysis of the Current Situation and Problems of the Coalbed Gas Drainage in China Protective Seam Method for Gas Control in Deep Well Fully Mechanized Soft Coal Face Observation of Pressure-relief Gas Drift and Comprehensive Gas Control in Fully Mechanized Caving Face Gas Control Technique Used for Extremely Soft Coal Seam with Outburst Risk Optimization Scheme of Methane Drainage in Medium-thick Coal Seam Study on the Rule of Methane Effusion of Full-Mechanized Top Coal Caving in Thick, Hard and High-gas SeamPart 3 Coal and Gas Outburst Control Technology Application of Outburst Prevention Forecast Map in Huainan Mining Area Current Situation and Prospect of Coal and Gas Outburst Forecast Technology Outburst Prevention Technology for Driving Face of Outburst Coal Seams in Huainan Mining Area Study on the Gas-geological Method of Outburst Prediction and Its Application Research on Safety Coal Quantity and Its Application to Coal and Gas Outburst Mines Experimental Study on Electromagnetic Radiation Characteristics of Coal or Rock under Complex Stress Research on Artificial Intelligence Alarm Theory and Key Technology to the Delay Coal and Gas Outburst Fast Pressure Measurement during Coal Uncovering in Cross-cut (shaft) Theoretical Study of Electromagnetic Radiation Response of Coal and Gas Outburst Prevention with Water Infusion in Coal Seam Study on Proper Roadway Location in Gob-side of Outburst Seam Locating the Distribution of Coalbed Methane Enriched Area Using Seismic P-wave Data Study about the Forecast Index of Coal and Gas Outburst Sensitive In PanJi 1st Mining Study of Determination of Abnormal Region in Working Face Based on Electromagnetic Radiation PrinciplePart 4 Gas Explosion Control TechnologyPart 5 Technology of Gas Safety Monitoring and ControlPart 6 Technology of Coal Mine Ventilation and Fire ExtinguishingPart 7 OthersAuthor IndexSubject Index

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