

<<工程爆破新进展2>>

图书基本信息

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前言

The Asian-Pacific region and Russia are the most active regions globally in the field of blasting engineering. There is no exaggeration to say that the development of blasting technology in the Asian-Pacific region and Russia is of far-reaching influence over the world. In order to further promote the development of blasting industry in the Asian-Pacific region, China Society of Engineering Blasting successfully held the first Asian-Pacific Symposium on Blasting Technology on May 8-12th, 2007 in Kunming, China. The organizing committee unanimously acknowledged the success of the symposium and approved the motion of making the "Asian-Pacific Symposium on Engineering Blasting" into serial conferences. The Symposium will be held every two years and the second Asian-Pacific Symposium will still be held in China. The International Conference on Physical Problems of Rock Destruction was successfully held five times in Russia.

I, together with other Chinese experts, was warmly invited to attend the Conference for several times. It has been decided that the Sixth International Conference on Physical Problems of Rock Destruction will be hosted by China Society of Engineering Blasting in the city of Dalian, China. The Asian-Pacific Symposium on Engineering Blasting and the International Conference on Physical Problems of Rock Destruction are intended to strengthen the academic exchange and technological cooperation among various countries in the Asian-Pacific region and Russia, to enhance inter-disciplinary penetration, to explore the opportunities, challenges and counter-measures faced by blasting technology and physical problems of rock destruction in the new century and to forecast the application prospects of blasting technology in various fields in a bid to jointly promote the development of blasting technology and physical problems of rock destruction in the world. The two conferences will offer valuable opportunities for experts, professors and engineers from the Asian-Pacific region and Russia engaged in industrial explosives, engineering blasting, rock destruction and other relevant fields to enhance understanding and cooperation. I hope and believe these two series international conferences will go ahead smoothly and successfully.

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内容概要

《工程爆破新进展2(英文版)》主要包括：A Fundamental Study on the Prevention of Occurrence of Channel Effect、The Key Technique of Highly Precise and Safe Delay Detonator、without Primary Explosive、Production and Application of New Explosives at the Mining Enterprises of Kazakstan、Relationship between Pressure Desensitization and Sensitization Bubbles Content of Emulsion Explosives等。

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书籍目录

1 General Review Blasting Technology Scenerio in the Next Decade An Overview of Instrumentation for Rock Blasting Scientific and Technological Advance of Rock Breaking by Blast in Russia A Review of Current International Standards , Guidelines and Criteria for the Control of Airblast Overpressure from Blasting Danger Removal Technology by Blasting after Earthquake Production of Emulsion Explosives in Russia State Of Production and Application Of Current Explosives and Devices for Their Initiation in Serbia and World2 Blasting Theory Research Characteristics Of Stress—wave Induced Fractures in Controlled Laboratory—scale Blasting Experiments Blasting Operations Information Management System Rock Microstructure Disintegration In Case Of Breakage by Blast Study to Damage Effect Of Insitu Stress Dynamic Unloading during Drilling and Blasting Excavation Dynamic Causals Analysis Of Oblique Crack Propagation under Blast Loading PPV Management and Frequency Shifting in Soft Ground Near Highwalls to Reduce Blast Damage Methods for Determination Of Basic Characteristics Of Explosives and Properties of Rocks for Development Of Rational Parameters Of Drilling and Blasting operations Fine Particles in Experiments On Destruction Of Rocks by Repeated Explosions Failure Analysis and Its Numerical Simulation On Impact—damage Rock Experimental Study On Rock Damage in Slope Cut by Presplit Blasting Failure Mechanism Of Lignocellulosic Material under Explosive Load Advanced Profiling Technology Deformation and Failure Of Rocks within Limit and Beyond—limit Ranges . Estimating and Forecasting the Parameters Of Technogenic Faulting Zones Around Mine Workings Meteorology & Airblast—Effects & Prediction . Pressure on Wall of Hole and Destruction of Rock after Blasting of Water of Small uple Charge Effect Of Explosion Waves On Wood Chips Stacked in a Closed Vessel The Pressure of Non—ideal Detonation Wave . Preliminary Analysis On the Broken Rock Zone Of a Deep Mine Tunnel under the Influence Of Moving Load Created by Blasting Explosion Vessel for Simulating Exploding in Deep Water Of Small Charge Stress Wave Energy Distribution in Solid Rock During Shothole Blasting Effect Of Blast Shock On Luminescence Of Diamonds Experimental Research On the Mechanism of Reinforcing Soft Clay Ground by Blasting .

3 Physical Problems Of Rock Destruction Resource Saving Strategy in the Process Of Rock Disintegration Dilatancy Mechanical Model for Strain and Failure Of Rocks under Creep Conditions Basic Types Of Rock Destruction and Productivity Of It Loss Of Pit—wall Stability and Rock Failure around Mine Workings under Creep Conditions Research into the Strength and Deformation Of Rocks in Conditions of Triaxial Inequicomponent Compression Intensification Of Minerals Disintegration in Autogenous Mills Rock Breaking and Main Aspects of Its Scale Application Main Methods of Increasing Minerals Liberation Selectivity In Processes Of Ore Preparation for Beneficiation Dynamics Analysis On Sizing Crushing and Industrial Application Of Sizing Crusher Influence Of Ball Mill Operating Parameters On Grinding Effect ...

...4 Blasting Demolition5 Explosives and Initiation Technology6 Special Blasting and Underwater Blasting7 Blasting Vibration and Measuring8 Blasting Safety

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章节摘录

插图：Presently the technology to provide the needed data to extract this information is in its infancy. It is believed that mechanical measurements (torque , etc.) by themselves are insufficient to extract all of the desired information. Additional , geophysical , data will be needed. The petroleum industry has shown the way. In this industry the well is the production unit and almost no expense is spared in obtaining information about the lithology of the hole and the nature of the reservoir. This information is gathered using a suite of geophysical tools. Unfortunately the mining industry cannot afford to collect this information at any expense. At the same time the shallow blastholes in the mining require less demanding solutions than the very deep petroleum wells. Drill rigs using this technology have started to be used on experimental basis. During the next decade blasthole drills will be fitted with a range of mechanical and geophysical sensors. These will provide real-time information on the rock mass. Specifically they will allow assessment of the strength of the intact rock , the effective strength of the rock mass , the location of discontinuities within the hole and the orientation and strength of these discontinuities. They will also monitor the position of any orebody boundaries and , for some ore types ; they will allow assessment of the ore grade along the hole. In some deposits they will monitor impurities found within the orebody. This information will be used as immediate input to a numerical blasting model. This model will enable the mining engineer to change the design of the blasting round during the drilling operation. It will allow the engineer to design the explosive loading of each hole individually and to design the sequence and the timing of the round to optimise the breakage process.

As knowledge of the rock mass will improve there will be an improvement in blasting performance.

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