<<工程爆破新进展2>>

图书基本信息

书名：<<工程爆破新进展2>>

13位ISBN编号：9787502449827

10位ISBN编号：7502449825

出版时间：2009-7

出版时间：冶金工业出版社

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前言

The Asian.Pacific region and Russia are the most active regions globally in the field of blastingengineering.There is no exaggeration to say that the development of blasting technology in the Asian.Pacific region and Russia is of far.reaching influefice 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 Blast., ing Technology on May 8.1 2th, 2007 in Kunming, China.The organizing committee unanimously ac.knowledged the success of the symposium and approved the motion of making the " Asian.PacificSymposium on Engineering Blasting " into serial conferences.The Symposium will be held every twoyears and the second Asian.Pacific Symposium will still be held in China.The International Confer.ence on Physical Problems of Rock Destruction was successfully held five times in Russia。
.I, togetherwith other Chinese experts, was warmly invited to attend the Conference for several times。
It has beendecided that the Sixth International Conference on Physical Problems of Rock Destruction will behosted by China Society of Engineering Blasting in the city of Dalian, China. The Asian-Pacific Symposium on Engineering Blasting and the International Conference onPhysical Problems of Rock Destruction are intended to strengthen the academic exchange and techno.10gical 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 blast.ing technology and physical problems of rock destruction in the new century and to forecast the appli-cation prospects of blasting technology in various fields in a bid to j ointly promote the development ofblasting technology and physical problems of rock destruction in the world.The two conferences willoffer valuable opportunities for experts, professors and engineers from the Asian.Pacific region andRussia engaged in industrial explosives, engineering blasting, rock destruction and other relevant fieldsto enhance understanding and cooperation.I hope and believe these two series international confer.ences 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)》主要内容包括：A FundamentalStudy 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

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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 insufrcient to extract all of the desired information.Addi. tional，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 obtain-ing information about the lithology of the hole and the na- ture 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 sen. sors.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 min. ing engineer to change the design of the blasting round dur. ing the drilling operation.It will allow the engineer to de. sign 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 perform.

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编辑推荐

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