



Rock Mechanics Achievements And Ambitions

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Summary : Free rock mechanics achievements and ambitions pdf download - rock mechanics achievements and ambitions contains the papers accepted for the 2nd isrm international young scholars symposium on rock mechanics which was sponsored by the isrm and held on 14 16 october 2011 in beijing china immediately preceding the 12th isrm congress on rock mechanics highlighting the work of young teachers researchers and practitioners the present work provides an important stimulus for the next generation of rock engineers because in the future there will be more emphasis on the use of the earth s resources and their sustainability and more accountability of engineers decisions in this context it is entirely appropriate that the symposium venue for the young scholars was in china because of the rock mechanics related work that is anticipated in the future for example in the chinese academy of sciences report energy science and technology in china a roadmap to 2050 it is predicted that china s total energy demand will reach 31 45 61 and 66 x 10⁸ tce tonnes of coal equivalent in 2010 2020 2035 2050 the associated per capita energy consumption for the same years is estimated at 2 3 3 1 4 1 and 4 6 tce this increasing demand will be met inter alia by the continued operation and development of new coal mines hydroelectric plants and nuclear power stations with one or more underground nuclear waste repositories all of which will be improved by more modern methods of rock engineering design developed by young scholars in particular enhanced methods of site investigation rock characterisation rock failure understanding computer modelling and rock excavation and support are needed the topics in the book include contributions on - field investigation and observation - rock constitutive relations and property testing - numerical and physical modeling for rock engineering - information technology artificial intelligence and other advanced techniques - underground and surface excavation and reinforcement techniques - dynamic rock mechanics and blasting - predication and prevention of geo-environmental hazard - case studies of typical rock engineering many of the 200 papers address these topics and demonstrate the skills of the young scholars indicating that we can be confident in the continuing development of rock mechanics and rock engineering leading to more efficient safer

and economical structures built on and in rock masses rock mechanics achievements and ambitions will appeal to professionals engineers and academics in rock mechanics rock engineering tunnelling mining earthquake engineering rock dynamics and geotechnical engineering

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