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"Engineering rock mechanics is the discipline used to design structures built in rock. These structures encompass building foundations, dams, slopes, shafts, tunnels, caverns,

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engineering rock mechanics part 2 illustrative worked examples pt 2 by barbara cartland jun 25 2020 free book engineering rock mechanics part 2 illustrative worked examples pt 2 engineering rock mechanics is the discipline used to design structures built in rock these structures encompass building foundations dams aug 30 2020

Full text e-book available as part of the Elsevier ScienceDirect Earth and Planetary Sciences subject collection.

The two-volume set Rock Mechanics and Rock Engineering is concerned with the application of the principles of mechanics to physical, chemical and electro-magnetic processes in the upper-most layers of the earth and the design and construction of the rock structures

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associated with civil engineering and exploitation or extraction of natural resources in mining and petroleum engineering. Volume 2, Applications of Rock Mechanics – Rock Engineering, discusses the applications of rock mechanics to engineering structures in/on rock, rock excavation techniques and in-situ monitoring techniques, giving some specific examples. The dynamic aspects associated with the science of earthquakes and their effect on rock structures, and the characteristics of vibrations induced by machinery, blasting and impacts as well as measuring techniques are described. Furthermore, the degradation and maintenance processes in rock engineering are explained. Rock Mechanics and Rock Engineering is intended to be a fundamental resource for younger generations and newcomers and a reference book for experts specialized in Rock Mechanics and Rock Engineering and associated with the fields of mining, civil and petroleum engineering, engineering geology, and/or specialized in Geophysics and concerned with earthquake science and engineering.

In this second, enlarged edition the author continues to emphasise aspects of rock mechanics. Firm in his belief that there is no better way to study the subject than by the detailed analysis of case histories, Dr Jaeger has incorporated a number of new ones.

Engineering Rock Mechanics Part II: Illustrative Worked Examples can be used as an independent book or alternatively it complements an earlier publication called Engineering Rock Mechanics: An Introduction to the Principles by the same authors. It contains illustrative worked examples of engineering rock mechanics in action as the subject applies to civil, mining, petroleum and environmental engineering. The book covers the necessary

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understanding and the key techniques supporting the rock engineering design of structural foundations, dams, rock slopes, wellbores, tunnels, caverns, hydroelectric schemes and mines. There is a question and worked answer presentation with the question and answer sets collated into twenty chapters which match the subject matter of the first book.

Engineers and geologists in the petroleum industry will find Petroleum Related Rock Mechanics, 2e, a powerful resource in providing a basis of rock mechanical knowledge - a knowledge which can greatly assist in the understanding of field behavior, design of test programs and the design of field operations. Not only does this text give an introduction to applications of rock mechanics within the petroleum industry, it has a strong focus on basics, drilling, production and reservoir engineering. Assessment of rock mechanical parameters is covered in depth, as is acoustic wave propagation in rocks, with possible link to 4D seismics as well as log interpretation. Learn the basic principles behind rock mechanics from leading academic and industry experts Quick reference and guide for engineers and geologists working in the field Keep informed and up to date on all the latest methods and fundamental concepts

Rock Mechanics and Engineering: Prediction and Control of Landslides and Geological Disasters presents the state-of-the-art in monitoring and forecasting geotechnical hazards during the survey and design, construction, and operation of a railway. This volume offers the latest research and practical knowledge on the regularity of disaster-causing activities, and the monitoring and forecasting of rockfalls, landslides, and debris flow induced by rainfall and

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human activity. The book gives guidance on how to optimize railway design, prevent and control measures during construction, and geological hazard remediation. The book also advises engineers on how to achieve traffic safety on high-speed railways. Eleven chapters present best practices in the prediction and control of landslides and rockfalls in geological disasters, derived from years of geotechnical engineering research and practice on high-speed railways in China. High-speed railways bring characteristic geotechnical challenges including a complete maintenance system, a long railway line, and the subjection of the geological body to cyclic loads. Since the damage to the geological body is influenced by fatigue as well as rock and soil strength and hydrology, the study of geotechnical hazards to high-speed rail is very complex. Monitoring and predicting such hazards on high-speed railways is a significant challenge to their safe construction and operation. Presents the latest technical achievement and development trends in landslide and rockfall forecasting Considers the challenges of high-speed railways to the prediction and control of geotechnical hazards Gives both in-situ and laboratory tests for rockfalls, and considers the collapse process of rock slopes Describes the principles of slope monitoring with specific reference to high-speed rail Details an automatic monitoring system for geotechnical hazards to high-speed rail

Petroleum Rock Mechanics: Drilling Operations and Well Design, Second Edition, keeps petroleum and drilling engineers centrally focused on the basic fundamentals surrounding geomechanics, while also keeping them up-to-speed on the latest issues and practical problems. Updated with new chapters on operations surrounding shale oil, shale gas, and hydraulic fracturing, and with new sections on in-situ stress, drilling design of optimal mud

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weight, and wellbore instability analysis, this book is an ideal resource. By creating a link between theory with practical problems, this updated edition continues to provide the most recent research and fundamentals critical to today's drilling operations. Helps readers grasp the techniques needed to analyze and solve drilling challenges, in particular wellbore instability analysis Teaches rock mechanic fundamentals and presents new concepts surrounding sand production and hydraulic fracturing operations Includes new case studies and sample problems to practice

This book presents some fundamental concepts behind the basic theories and tools of discrete element methods (DEM), its historical development, and its wide scope of applications in geology, geophysics and rock engineering. Unlike almost all books available on the general subject of DEM, this book includes coverage of both explicit and implicit DEM approaches, namely the Distinct Element Methods and Discontinuous Deformation Analysis (DDA) for both rigid and deformable blocks and particle systems, and also the Discrete Fracture Network (DFN) approach for fluid flow and solute transport simulations. The latter is actually also a discrete approach of importance for rock mechanics and rock engineering. In addition, brief introductions to some alternative approaches are also provided, such as percolation theory and Cosserat micromechanics equivalence to particle systems, which often appear hand-in-hand with the DEM in the literature. Fundamentals of the particle mechanics approach using DEM for granular media is also presented. · Presents the fundamental concepts of the discrete models for fractured rocks, including constitutive models of rock fractures and rock masses for stress, deformation and fluid flow · Provides a comprehensive presentation on discrete element

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methods, including distinct elements, discontinuous deformation analysis, discrete fracture networks, particle mechanics and Cosserat representation of granular media · Features constitutive models of rock fractures and fracture system characterization methods detailing their significant impacts on the performance and uncertainty of the DEM models

During the last two decades rock mechanics in Europe has been undergoing some major transformation. The reduction of mining activities in Europe affects heavily on rock mechanics teaching and research at universities and institutes. At the same time, new emerging activities, notably, underground infrastructure construction, geothermal energy develop

The text broadly covers recent developments in ground control techniques, and their at operating mines, worldwide. Specific topics include: design and analysis of support and reinforcement in metalliferous mines, mesh, shotcrete and membrane support systems, and strata control in coal mines.

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