

Walter Wittke

Rock Mechanics

Theory and Applications with Case Histories

Rock Mechanics Theory And Applications With Case Histories

Scott C. Dulebohn



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Rock Mechanics Walter Wittke,1990-08-30 The book introduces the reader to the fundamentals of rock mechanics and to its application to economic construction in rock Models describe the mechanical properties and the permeability of rock Numerical methods for evaluating the stability of structures in rock are given to solve special problems related to tunnels caverns pressure tunnels dam foundations and slopes Methods for testing the rock mechanical properties are described A number of case histories enable the reader to make use of the content in his or her own work **Rock Mechanics Based**

on an Anisotropic Jointed Rock Model (AJRM) Walter Wittke,2014-04-07 Dieses Buch konzentriert sich auf die Grundlagen der Felsmechanik als Basis f r den sicheren und wirtschaftlichen Entwurf und Bau von Tunneln D mmen und B schungen in gekl ftehem und anisotropem Fels Es ist in vier Hauptteile gegliedert Grundlagen und Modelle Berechnungs und Entwurfsmethoden Erkundungen Versuche Messung und Beobachtung Anwendungen und Fallbeispiele Die felsmechanischen Modelle ber ecksichtigen den Einfluss von Trennfl chen auf das Spannungs Dehnungs Verhalten und die Durchl ssigkeit von gekl ftehem Fels Dieses Buch ist f r Bau und Bergbauingenieure Geologen Studenten aus den entsprechenden Bereichen

Rock Mechanics Walter Wittke,2013 **Rock mechanics** ,1982 *Stability Analysis and Modelling of Underground Excavations in Fractured Rocks* Jian Zhao,Weishen Zhu,2003-12-18 Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material This authoritative title is a key reference for any Geo engineer Rock masses differ considerably from man made materials and their properties can vary with location direction and time As a result there is a critical need to capture these variations via modeling and analysis Zhu and Zhao provide an expert introduction to the techniques and analytical methods needed for studying underground excavations in fractured rock masses The book brings together previously published and new material to provide a comprehensive and up to date reference Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material Assessment and Prevention of Failure Phenomena in Rock Engineering

O. Aydan,A.G. Pasamehmetoglu,T. Kawamoto,B.N. Whittaker,2022-04-26 First published in 1993 This volume is a collection of papers addressing the issue of the failure of rock engineering structures This phenomenon occurs in different forms depending on the geometry of structure material properties of intact rock structure of rock mass environmental conditions and initial state of stress Digital Rock Scour Erik Bollaert,2024-04-11 This book examines the digitalization of rock scour engineering at dams and hydraulic structures It outlines the current digitalization technologies applications issues in rock engineering as well as the digital evolution that has strongly characterized the development of computational methods in state of the art rock scour over recent years The challenges of rock scour digitalization are also discussed such as parametric standardization real time data acquisition data analysis and interpretation quantitative rock mass indices new ways of

thinking and digital twin implementation Further it presents the major components and characteristics that are needed to develop an environment that implements rock scour digitally into dam safety procedures and dam risk analyses such as IT platforms database availability topology physics computational methods phase coupling accessibility portability reliability real time and ahead of time implementations and more Features Provides an overview of physics based computational methods that have been developed by the engineering community over the last 20 years which can easily be implemented digitally into cloud based platforms Offers examples of the next generation computational environment combining both real time computational power and an up to date scour database allowing new parametric refinements Includes several case studies of real life rock scour Presents the latest Digital Twin developments which are novel and new to dam operations

Tunnel Design Methods Antonio Bobet, Herbert H. Einstein, 2023-09-12 Tunnel Design Methods covers analytical numerical and empirical methods for the design of tunnels in soil and in rock The material is intended for design engineers looking for detailed methods for graduate students who are interested in tunnelling and for researchers working on various aspects of ground support interaction under static and seismic loading The book is divided into seven chapters covering fundamental concepts on ground and support behavior and on ground excavation support interaction and provides detailed information on analytical and numerical methods used for the design of tunnels with applications and on the latest developments on empirical methods The principles and formulations included are used throughout the book to provide insight into the response of tunnels under both simple and complex loading conditions thus providing the reader with fundamental understanding of tunnel behavior Both authors have experience in tunnelling and have worked extensively in practice designing tunnels both in the United States and abroad and in research

Comprehensive Rock Engineering John A. Hudson, 1993 Engineers wishing to build structures on or in rock use the relatively new discipline known as rock mechanics Comprehensive Rock Engineering is an up to date comprehensive work of reference containing a compilation of knowledge in one coherent publication Clearly illustrated throughout this multi volume publication covers every aspect of rock mechanics and rock engineering The work is arranged in five volumes under the themes Fundamentals Analysis and Design Methods Rock Testing and Site Characterization Excavation Support and Monitoring and Surface and Underground Project Case Histories providing information for rock engineering application

The Hoek-Brown Failure criterion—From theory to application Jianping Zuo, Jiayi Shen, 2020-01-02 This book provides a comprehensive coverage of the theory and principle of the Hoek Brown HB failure criterion methods or guidelines for estimating the HB input parameters and the methodology of application of the HB criterion in rock engineering projects It aims to help researchers engineers and research students who work in the area of rock mechanics and mining engineering Academics can quickly obtain an overview of the state of the art of the theory and principle of the Hoek Brown criterion by reading the book before they advance their researches on the topics related to rock failure criteria Geotechnical engineers can select appropriate

Hoek Brown input parameters for the design and analysis of rock engineering projects with the help of the principles introduced in this book Research students may use the book as a textbook to learn the principle of rock mechanics related to rock mass properties

The Quarterly Journal of Engineering Geology ,1996 **Computer Methods and Advances in Geomechanics** ,1994 ISRM Regional Symposium, Advancing Rock Mechanics Frontiers to Meet the Challenges of 21st Century, 24-27 September 2002, New Delhi, India ,2002 With special reference to India *Whitaker's Books in Print* ,1998 **Acta Geodaetica, Geophysica Et Montanistica Hungarica** ,1991 Rock Mechanics in the 1990s Bezalel C. Haimson,1993 *Dynamic Fluids and Transport in Fractured Rock* Boris Faybishenko,Paul A. Witherspoon,John Gale,2005-01-14 A comprehensive review and analysis of recent field laboratory and modeling investigations of flow and transport through fractured rock worldwide Topics include recent advances in modeling unsaturated flow and transport processes field and laboratory experiments microbiological processes coupled process and geothermal resources NAPL transport in fractured rock geochemistry and chemical transport and more

Physics Briefs ,1991 **Proceedings of the International Congress of the International Association of Engineering Geology** International Association of Engineering Geology,1982 **The Behavior of Deep Excavations in Weathered Rock** Michael Townsend McRae,1994

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