

Walter Wittke

Rock Mechanics

Theory and Applications with Case Histories

Rock Mechanics Theory And Applications With Case Histories

Raffaela Di Napoli



Rock Mechanics Theory And Applications With Case Histories:

Rock Mechanics Walter Wittke, 2014-11-28 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 für den sicheren und wirtschaftlichen Entwurf und Bau von Tunneln, Dämmen und Böschungen in geklüftetem 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 berücksichtigen den Einfluss von Trennflächen auf das Spannungs-Dehnungs-Verhalten und die Durchlässigkeit von geklüftetem Fels. Dieses Buch ist für Bau- und Bergbauingenieure, Geologen, Studenten aus den entsprechenden Bereichen

Rock Mechanics Walter Wittke, 2013 **Rock mechanics**, 1982 *Die Stabilität der Felsfundamente von Staumauern* Stefan Bergamin, 2010 Staunanlagen Felsmechanik Stabilität Sicherheitsbeurteilung Staunanlagen sind Bauwerke mit einem hohen Schadenspotenzial im Ereignisfall. Sie müssen deshalb eine sehr hohe Sicherheit aufweisen. Die Gefahr der Instabilität von Felskörpern muss praktisch ausgeschlossen werden. Stellt doch ein Bruch im Fundationsbereich die wichtigste Ursache für das Versagen von Staumauern dar. Die Publikation hat folgende Zielsetzung: Zum einen aufbauend auf dem heutigen Wissensstand die Entwicklung einer Methodik für die Stabilitätsuntersuchung von potenziellen Bruchkörpern im Fels zum anderen deren Umsetzung in einem CAD gestützten Computerprogramm für die Praxis. Fallbeispiele sollen wichtige Aspekte verdeutlichen und die Möglichkeiten des Hilfsmittels aufzeigen. *Gesteinskunde* Ulrich Sebastian, 2017-11-23 Das nun bereits in der 4. Auflage vorliegende Buch vermittelt einen leicht verständlichen Überblick über das Gebiet der Petrographie. Einsteiger werden nicht durch theoretisches Detailwissen überfordert oder gar abgeschreckt, sondern erlangen schnell ein Grundwissen in Mineralogie mit den wichtigsten gesteinsbildenden Mineralen. Petrographie mit den häufigsten Gesteinen, technischer Gesteinskunde mit den Eigenschaften der Gesteine, die für die Verwendung wichtig sind. Instruktive Fotos, Übersichten und Schaubilder erleichtern das Lernen und Verstehen. Sie sind ein hervorragendes Merkmal des Werkes und machen es zu einem hilfreichen Begleiter für alle Praktiker und Wiedereinsteiger, welche die Petrographie sonst eher selten betreiben. Das Buch ist in einen klassisch petrographischen und einen angewandten Abschnitt geteilt. So kann jeder Nutzer die Gesichtspunkte der Gesteinskunde auswählen, die ihn besonders interessieren. *Gesteinskunde* Ein Leitfaden für Einsteiger und Anwender richtet sich an Schüler und Studenten von Fach- und Hochschulen, an Profis wie Bauingenieure, Techniker und Geowissenschaftler sowie an interessierte Laien. Das Buch hat sich so erfolgreich eingeführt, dass es nunmehr bereits in der 4.

Auflage vorliegt *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

Veröffentlichungen des Instituts für Grundbau, Bodenmechanik, Felsmechanik und Verkehrswasserbau der RWTH Aachen, 1995 **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 **Soft Rock Mechanics and Engineering** Milton Kanji, Manchao He, Luís Ribeiro e Sousa, 2019-11-24 This book offers a practical reference guide to soft rock mechanics for engineers and scientists Written by recognized experts it will benefit professionals contractors academics researchers and students working on rock engineering projects in the fields of civil engineering mining and construction engineering Soft Rock Mechanics and Engineering covers a specific subject of great relevance in Rock Mechanics and one that is directly connected to the design of geotechnical structures under difficult ground conditions The book addresses practical issues related to the geomechanical properties of these types of rock masses and their characterization while also discussing advances regarding in situ investigation safety and monitoring of geotechnical structures in soft rocks Lastly it presents important case histories involving tunnelling dam foundations coal and open pit mines and landslides *The Quarterly Journal of Engineering Geology*, 1996 *Bibliographie internationale des recensions de la littérature savante*, 1974 *Physics Briefs*, 1991 **Acta Geodaetica, Geophysica Et Montanistica Hungarica**, 1991 *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 *Whitaker's Books in Print*, 1998 KWIC Index of Rock Mechanics Literature J P Jenkins, E. T. Brown, 2016-06-03 KWIC Index of Rock Mechanics Literature Part 2 1969 1976 is an index of subjects in rock mechanics The KWIC keyword in context index is produced by cyclic permutation of significant words in the title of the publication The text covers materials in rock mechanics and geomechanics published around the 70s The book will be of great use to students researchers and practitioners of geological sciences Proceedings of GeoShanghai 2018 International Conference: Rock Mechanics and Rock Engineering Lianyang Zhang, Bruno Goncalves da Silva, Cheng Zhao, 2018-05-10 This book is the third volume of the proceedings of the 4th GeoShanghai International Conference that was held on May 27 30 2018 This volume entitled Rock Mechanics and Rock Engineering covers the recent advances and technologies in rock mechanics and rock engineering These papers are grouped in three categories 1 Theoretical and numerical study of rock behaviours 2 Experimental study of rock behaviours and 3 Applications of rock mechanics and case studies This volume presents the state of the art theories methodologies and findings in the related areas The book may benefit researchers and scientists from the academic fields of rock mechanics and rock engineering geotechnical engineering geoenvironmental engineering transportation engineering geology mining and energy as well as practical engineers from the industry Each of the papers included in this book received at least two positive peer reviews The editors would like to express their sincerest appreciation to all of the anonymous reviewers all over the world for their diligent work **Sci-tech News**, 1992 Stress in the Earth WYSS, 2013-12-01

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