



Rock Mechanics: Theory and Applications With Case Histories

Wittke, Walter

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Rock Mechanics Theory And Applications With Case Histories

Walter Wittke



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. **Grundbau-Taschenbuch, Teil 1: Geotechnische Grundlagen** Ulrich Smolczyk, 2001-03-23 Das Grundbau Taschenbuch entspricht nicht nur den höchsten Erwartungen, die an ein Nachschlagewerk für Studium und Praxis gestellt werden. Es ist auch eine für das geotechnische Fach einmalige Leistung, die ihresgleichen weltweit sucht. W. Sadgorski **Rock Mechanics** Jaak J.K. Daemen, Richard A. Schultz, 1995-01-01 This volume presents the proceedings of a symposium on rock mechanics held in the USA in 1995. Topics covered include rock dynamics, tool rock interaction, radioactive waste disposal, underground mining, fragmentation and blasting, theoretical and model studies, hydrology and rock creep. **Rock Mechanics and Engineering Volume 1** Xia-Ting Feng, 2017-03-16 Principles is the first volume of the five volume set Rock Mechanics and Engineering and contains twenty four chapters from key experts in the following fields: Discontinuities, Anisotropy, Rock Stress, Geophysics, Strength Criteria, Modeling, Rock Deformation and Failure. The five volume set Comprehensive Rock Engineering, which was published in 1993, has had an important influence on the development of rock mechanics and rock engineering. Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation. Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A. Hudson. This new compilation offers an extremely wide-ranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed, dedicated contributions by all the key experts worldwide. Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields. Contributors are world-renowned experts in the fields of rock mechanics and rock engineering, though younger talented researchers have also been included. The individual volumes cover an extremely wide array of topics grouped under five overarching themes: Principles, Vol 1; Laboratory and Field Testing, Vol 2; Analysis, Modelling and Design, Vol 3; Excavation Support and Monitoring, Vol 4; and Surface and Underground Projects, Vol 5. This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go-to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come. *Die Stabilität der Felsfundamente von Staumauern* Stefan Bergamin, 2010 Stauanlagen Felsmechanik Stabilität Sicherheitsbeurteilung Stauanlagen sind Bauwerke mit einem hohen Schadenspotenzial im Ereignisfall. Sie müssen deshalb eine sehr hohe Sicherheit aufweisen. Die Gefahr der

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Gesteinskunde Ulrich Sebastian,2012-09-22 Gesteine wie sie heißen und wozu man sie verwenden kann Das vorliegende Buch vermittelt einen leicht verständlichen Überblick über das Gebiet der Petrographie Einsteiger werden nicht durch theoretisches Detailwissen befördert 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 hervorstechendes Merkmal des Werkes und machen es zu einem hilfreichen Begleiter für alle Praktiker und Wiedereinsteiger die die Petrographie sonst eher selten benutzen 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 Die zweite Auflage wurde um ein Kapitel zu geophysikalischen Eigenschaften der Gesteine sowie um weitere Möglichkeiten der Ansprache von Gesteinen ergänzt Gesteinskunde Ein Leitfaden für Einsteiger und Anwender richtet sich an Schüler und Studenten von Fach und Hochschulen an Profis wie Bauingenieure Bohrer und Geowissenschaftler sowie an interessierte Laien 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 *Taschenbuch für den Tunnelbau 2023* Deutsche Gesellschaft für Geotechnik,2022-09-21 Das Taschenbuch für den Tunnelbau ist seit vielen Jahren ein praxisorientierter Ratgeber für Auftraggeber Planer und Bauausführende Es greift aktuelle Entwicklungen und Problemstellungen auf präsentiert innovative Lösungen und dokumentiert dabei den jeweils erreichten Stand der Technik Die Beiträge in der Ausgabe 2023 behandeln die Themenbereiche Konventioneller Tunnelbau Maschineller Tunnelbau

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The Foundation Engineering Handbook, Second Edition

Manjriker Gunaratne, 2013-11-26 Considering how structures interact with soil and building proper foundations is vital to ensuring public safety and to the longevity of buildings Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer The Foundation Engineering Handbook Second Edition provides the fundamentals of foundation engineering needed by professional engineers and engineering students It presents both classical and state of the art design and analysis techniques for earthen structures and examines the principles and design methods of foundation engineering needed for design of building foundations embankments and earth retaining structures It covers basic soil mechanics and soil and groundwater modeling concepts along with the latest research results What's New in the Second Edition Adds alternative analytical techniques to nearly every chapter Supplements existing material with new content Includes additional applications in the state of the art such as unsaturated soil mechanics analysis of transient flow through soils deep foundation construction monitoring based on thermal integrity profiling and updated ground remediation techniques Covers reliability based design and LRFD load resistance factor design concepts not addressed in most foundation engineering texts Provides more than 500 illustrations and over 1 300 equations The text serves as an ideal resource for practicing foundation and geotechnical engineers as well as a supplemental textbook for both undergraduate and graduate levels

Entwicklung von Algorithmen zur Abbildung und 3D-Darstellung von Rissen in Bergwerkstollen mit Hilfe von hochauflösendem Radar

Carsten Ralle, 2001-11-07 Inhaltsangabe Einleitung Die Anwendung von Radarwellen zur Erforschung von unzugänglichen Bereichen hat in den letzten Jahrzehnten einen großen Aufschwung erfahren besonders durch den verstärkten Einsatz in zivilen Bereichen und zur Fernerkundung der Erde Eine besondere Rolle spielte und spielt dabei die Faszination des Sichtbarmachens des primär Unsichtbaren unabhängig von offensichtlichen wissenschaftlichen oder ökonomischen Vorteilen Die Anwendung von Georadar als Lesart des Radars hat neben der Gewinnung von neuen Erkenntnissen über zeitliche Veränderungen in der Erdkruste vor allem die Transformation von wissenschaftlichen Forschungsergebnissen in industrielle Anwendungen vorangetrieben Bei der Vorerkundung für Bauvorhaben Vermessung von unterirdischen Anlagen und zur Verbesserung der Sicherheit in Bergwerken gehört Radartechnik heute zu den Standardhilfsmitteln Parallel zu den seit Jahren im Einsatz befindlichen Impulsradargeräten hat sich in den letzten Jahren das Prinzip des Syntheseradars etabliert nicht als Alternative sondern als hochauflösende Ergänzung zu existierenden Verfahren Möglich wurde dies erst durch die rasante Entwicklung der Mikroelektronik da es hohe Anforderungen an die Datenverarbeitung stellt Die Einsatzgebiete von Hochfrequenzradar sind vielfältig Ersatz für Wärmebildkameras der Polizei in seldlichen Ländern berührungsfreie Landminensuche zerstörungsfreie Analyse von Gesteinen Suche nach Lawinen und Erdbebenopfern und vieles mehr Die vorliegende Arbeit beschäftigt sich mit der Anwendung dieses alten neuen

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Earth and Rockfill Dams Christian Kutzner, 2018-02-06 This text methodically demonstrates the basic rules for the design criteria of earthfill and rockfill dams It expertly guides the reader from preliminary work through the design of various embankment dams and on to the construction and finally the control of safety in completed structures *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 **Industrial Communication**

Technology Handbook, Second Edition Richard Zurawski, 2014-11-07 Featuring contributions from major technology vendors industry consortia and government and private research establishments the Industrial Communication Technology Handbook Second Edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy

and power systems train applications and more New to the Second Edition 46 brand new chapters and 21 substantially revised chapters Inclusion of the latest most significant developments in specialized communication technologies and systems Addition of new application domains for specialized networks The Industrial Communication Technology Handbook Second Edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies It is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training

Veröffentlichungen des Instituts für Grundbau, Bodenmechanik, Felsmechanik und Verkehrswasserbau der RWTH Aachen, 1995 *The Foundation Engineering Handbook* Manjriker Gunaratne, 2013-11-26 Considering how structures interact with soil and building proper foundations is vital to ensuring public safety and to the longevity of buildings Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer The Foundation Engineering Handbook Second Edition provides the fundamentals of foundation e

Berichte, 1991 **Numerical Methods in Geotechnical Engineering IX, Volume 2** António S. Cardoso, José L. Borges, Pedro A. Costa, António T. Gomes, José C. Marques, Castorina S. Vieira, 2018-06-27 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25-27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods Coupling of diverse methods Reliability and probability analysis Large deformation large strain analysis Artificial intelligence and neural networks Ground flow thermal and coupled analysis Earthquake engineering soil dynamics and soil structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns and pipelines Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences 1986 Stuttgart Germany 1990 Santander Spain 1994 Manchester United Kingdom 1998 Udine Italy 2002 Paris France 2006 Graz Austria 2010 Trondheim Norway 2014 Delft The Netherlands Numerical Methods in Geotechnical Engineering IX updates the state of the art regarding the application of numerical methods in geotechnics both in a scientific perspective and in what concerns its application for solving practical boundary value problems The book will be much of interest to engineers academics and professionals involved or interested in Geotechnical Engineering This is volume 2 of the NUMGE 2018 set

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