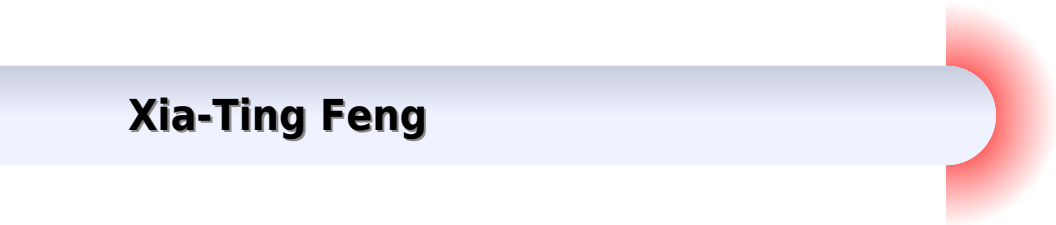


ROCK MECHANICS:
CAVERNS AND PRESSURE SHAFTS
FELSMECHANIK:
KAVERNEN UND DRUCKSCHÄCHTE
MÉCANIQUE DES ROCHES:
LES CAVERNES ET LES PUTTS SOUS PRESSION

3

Rock Mechanics Caverns And Prebure Shafts Volume 2

Xia-Ting Feng



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Rock Mech - 3 Vols, 1982-01-01 *Geotechnical Abstracts*, 1990 *Storage of Gases in Rock Caverns* B. Nilsen, J. Olsen, 2022-04-18 Contains papers of a conference on title held in Trondheim Norway June 1989 The following storage concepts are considered pressurized compressed air energy air cushion surge chambers ammonia products storage *On the Feasibility of TBM Drives in Squeezing Ground and the Risk of Shield Jamming* Marco Ramoni, 2010 Squeezing ground represents a challenging operating environment as it may slow down or obstruct TBM operation Due to the geometrical constraints of the equipment relatively small convergences of 10 20 cm may lead to considerable difficulties in the machine area sticking of the cutter head jamming of the shield or in the back up area e g jamming of the back up equipment inadmissible convergences of the bored profile damage to the tunnel support Depending on the number and the length of the critical stretches squeezing conditions may even call into question the feasibility of a TBM drive On account of this and bearing in mind the steady increase in the number of tunnels excavated with TBMs through so called difficult ground conditions the topic investigated in this PhD thesis is of great practical relevance Based upon case histories reported in the literature Part I sets out firstly to give an overview of the specific problems of TBM tunnelling under squeezing conditions Part II presents a computational model which simulates accurately and efficiently the advancing TBM and the installed tunnel support in one single computational step applying the so called steady state method Part III advances a number of theory based decision aids which will support rapid initial assessments to be made of thrust force requirements Part IV investigates the complex problem of the interaction between the advancing TBM the consolidating ground and the lining Emphasis is thereby placed on the effect of the gross advance rate and the effect of ground permeability on shield loading during regular TBM operation the boring process including short standstills and during a long standstill *Underground Infrastructures* R K Goel, Bhawani Singh, Jian Zhao, 2012-05-07 Offers exposition of the classification of underground space important considerations such as geological and engineering and underground planning This title includes chapters concerning applications for underground water storage underground car parks underground metros and road tunnels and underground storage of crude oil lpg and natural gas **Rock Mechanics and Engineering Volume 3** Xia-Ting Feng, 2017-04-21 Analysis Modeling Back Analysis Risk Analysis Design and Stability Analysis Overviews Design and Stability Analysis Coupling Process Analysis Design and Stability Analysis Blast Analysis and Design Rock Slope Stability Analysis and Design Analysis and Design of Tunnels Caverns and Stopes 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 wideranging 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 worldrenowned 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

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

Basic and Applied Salt Mechanics N.D. Cristescu,H.R. Hardy,R.O. Simionescu,2020-12-18 Papers cover laboratory and in situ testing coupled effects and permeability creep damage and dilatancy constitutive modelling crushed salt behaviour numerical modelling storage and disposal projects mining applications case studies and salt pillars and cavities

State-of-the-art Construction Technology for Deep Tunnels and Shafts in Rock Robert D. Bennett,1985

Surface and Underground Project Case Histories E. Hoek,2016-09-08 Surface and Underground Project Case Histories

Back Analysis in Rock Engineering Shunsuke Sakurai,2017-09-01 This book provides practicing engineers working in the field of design construction and monitoring of rock structures such as tunnels and slopes with technical information on how to design how to excavate and how to monitor the structures during their construction Based on the long term engineering experiences of the author field measurements together with back analyses are presented as the most powerful tools in rock engineering practice One of the purposes of field measurements is to assess the stability of the rock structures during their construction However field measurement results are only numbers unless they are quantitatively interpreted a process in which back analyses play an important role The author has developed both the concepts of critical strain and of the

anisotropic parameter of rocks which can make it possible not only to assess the stability of the structures during their construction but also to verify the validity of design parameters by the back analysis of field measurement results during the constructions Based on the back analysis results the design parameters used at a design stage could be modified if necessary This procedure is called an Observational method a concept that is entirely different from that of other structures such as bridges and buildings It is noted that in general technical books written for practicing engineers mainly focus on empirical approaches which are based on engineers experiences In this book however no empirical approaches will be described instead all the approaches are based on simple rock mechanics theory This book is the first to describe an observational method in rock engineering practice which implies that the potential readers of this book must be practicing engineers working on rock engineering projects

Modelling of Mine Structures A. Kidybinski, M. Kwasniewski, 2021-02-25

Proceedings of the 10th Plenary Scientific Session of the International Bureau of Strata Mechanics World Mining Congress Stockholm June 1987

Rock Mechanics and Engineering Volume 5 Xia-Ting Feng, 2017-07-20 Surface and Underground Projects is the last volume of the five volume set Rock Mechanics and Engineering and contains twenty one chapters from key experts in the following fields Slopes Tunnels and Caverns Mining Petroleum Engineering Thermo Hydro Mechanics in Gas Storage Loading and Radioactive Waste Disposal 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 wideranging 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 worldrenowned 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

Rock Stress and Its Measurement B. Amadei, O. Stephansson, 2012-12-06 Rock masses are initially stressed in their current in situ state of stress and to a lesser natural state Whether one is interested in the extent on the monitoring of stress change formation of geological structures folds faults The subject of paleostresses is only briefly intrusions etc the stability of artificial struc discussed tures tunnels

caverns mines surface excava The last 30 years have seen a major advance our knowledge and understanding of rock tions etc or the stability of boreholes a in the in situ or virgin stress field stress A large body of data is now available on knowledge of along with other rock mass properties is the state of stress in the near surface of the needed in order to predict the response of rock Earth s crust upper 3 4km of the crust masses to the disturbance associated with those Various theories have been proposed regarding structures Stress in rock is usually described the origin of in situ stresses and how gravity within the context of continuum mechanics It is tectonics erosion lateral straining rock fabric defined at a point and is represented by a glaciation and deglaciation topography curva second order Cartesian tensor with six compo ture of the Earth and other active geological nents Because of its definition rock stress is an features and processes contribute to the current enigmatic and fictitious quantity creating chal in situ stress field

Rock Mechanics and Engineering Volume 2

Xia-Ting Feng,2017-07-12 Laboratory and Field Testing is the second volume of the five volume set Rock Mechanics and Engineering and contains nineteen chapters from key experts in the following fields Triaxial or True triaxial Tests under Condition of Loading and Unloading Joint Tests Dynamic and Creep Tests Physical Modeling Tests Field Testing and URLs 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 wideranging 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 worldrenowned 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

Publikasjon - Norges Geotekniske Institutt ,1988 Engineering Geology David George Price,2009 This text is directed at the heart of Engineering Geology where geology is used to identify potential problems arising from ground conditions It describes how to investigate those conditions and to define an engineering response that will either avoid or reduce or even eliminate the problems revealed The book presents the big picture that is so often lacking when only site details are available but necessary for adequate engineering solutions

Impactful Times

James R. Asay, Lalit C. Chhabildas, R. Jeffery Lawrence, Mary Ann Sweeney, 2017-05-02 This book presents a history of shock compression science including development of experimental material modeling and hydrodynamics code technologies over the past six decades at Sandia National Laboratories The book is organized into a discussion of major accomplishments by decade with over 900 references followed by a unique collection of 45 personal recollections detailing the trials tribulations and successes of building a world class organization in the field It explains some of the challenges researchers faced and the gratification they experienced when a discovery was made Several visionary researchers made pioneering advances that integrated these three technologies into a cohesive capability to solve complex scientific and engineering problems What approaches worked which ones did not and the applications of the research are described Notable applications include the turret explosion aboard the USS Iowa and the Shoemaker Levy comet impact on Jupiter The personal anecdotes and recollections make for a fascinating account of building a world renowned capability from meager beginnings This book will be inspiring to the expert the non expert and the early career scientist Undergraduate and graduate students in science and engineering who are contemplating different fields of study should find it especially compelling New Technical Books
New York Public Library, 1984 **Bibliography and Index of Geology** , 1986

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