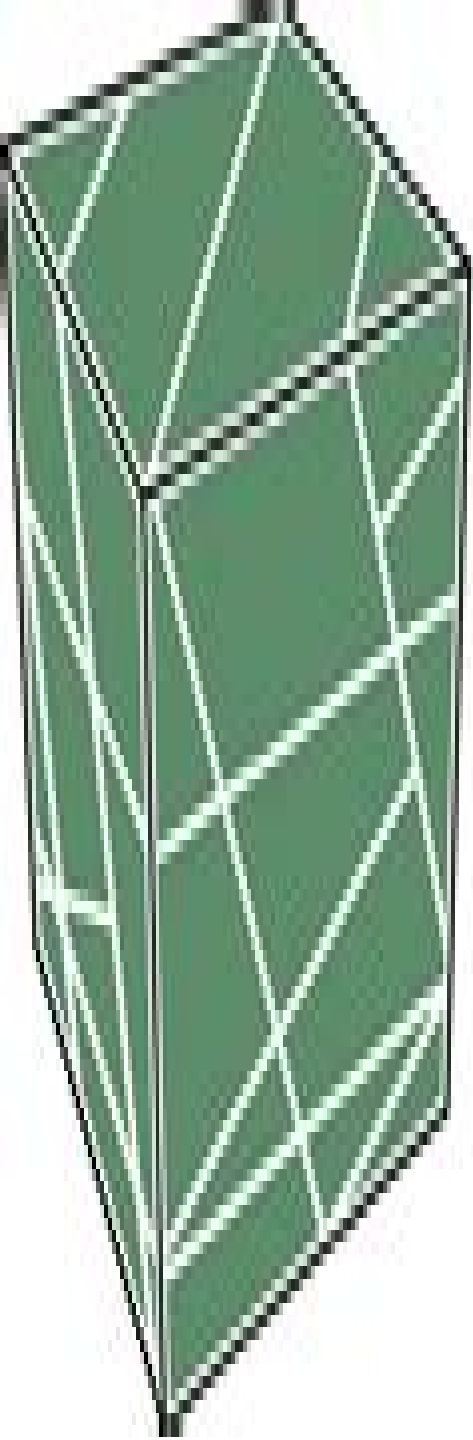




3DECTM VERSION 7.0

**Distinct-Element Modeling of
Jointed and Blocky Material in 3D**

Itasca 3dec Manual

António Arêde, Cristina Costa



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Computational Geomechanics and Hydraulic Structures Sheng-Hong Chen, 2018-06-21 This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period Based on the results of a close collaboration between the author and his colleagues friends students and field engineers it shows how to achieve a good correlation between numerical computation and the actual in situ behavior of hydraulic structures The book s heuristic and visualized style disseminates the philosophy and road map as well as the findings of the research The chapters reflect the various aspects of the three typical and practical methods the finite element method the block element method the composite element method that the author has been working on and made essential contributions to since the 1980s This book is an advanced continuation of Hydraulic Structures by the same author published by Springer in 2015

Fundamentals of Discrete Element Methods for Rock Engineering: Theory and Applications Lanru Jing, Ove Stephansson, 2007-07-18 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 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

Rock Mass Stability Around Underground Excavations in a Mine Yan Xing, Pinnaduwa Kulatilake, Louis Sandbak, 2019-11-20 Stability of underground excavations is of great importance to an operating mine because it ensures the safety of the working people and operating equipment and successful ore production Due to the complex geological conditions and mine constructions and variability and uncertainty in estimating rock mass mechanical properties the assessment of rock mass stability for an underground mine is extremely challenging and difficult Tackling of this difficult problem is not covered in detail in any of the textbooks currently available in the rock mechanics literature This monograph aims to cover this gap in

the rock mechanics and rock engineering field This monograph provides detailed procedures for the stability assessment and support design for an underground mine case study It covers the background of the mine site including the monitored deformation data the state of art methodologies for the stability analysis of rock masses around underground excavations performed laboratory tests estimation of the rock mass properties a brief theory and background of the 3 D Distinct Element Code 3DEC and numerical modeling of underground rock mass stability including investigation of the effectiveness of rock supports The monograph is an excellent reference for the senior undergraduates graduate students researchers and practitioners who work in the Underground Rock Mechanics and Rock Engineering area in the Mining Engineering Civil Geotechnical Engineering and DEM Distinct Element Method Numerical modeling

Computational Modeling of Masonry Structures Using the Discrete Element Method Sarhosis, Vasilis,Bagi, Katalin,Lemos, José V.,Milani, Gabriele,2016-06-09 The Discrete Element Method DEM has emerged as a solution to predicting load capacities of masonry structures As one of many numerical methods and computational solutions being applied to evaluate masonry structures further research on DEM tools and methodologies is essential for further advancement Computational Modeling of Masonry Structures Using the Discrete Element Method explores the latest digital solutions for the analysis and modeling of brick stone concrete granite limestone and glass block structures Focusing on critical research on mathematical and computational methods for masonry analysis this publication is a pivotal reference source for scholars engineers consultants and graduate level engineering students

Proceedings of the Indian Geotechnical Conference 2022 Volume 5 Babu T. Jose,Dipak Kumar Sahoo,Thomas Oommen,Kasinathan Muthukkumaran,S. Chandrakaran,T. G. Santhosh Kumar,2024-07-19 This book comprises the select proceedings of the Indian Geotechnical Conference IGC 2022 The contents focus on recent developments in geotechnical engineering for a sustainable world The book covers behavior of soils and soil structure interaction soil stabilization ground improvement and land reclamation shallow and deep foundations geotechnical geological and geophysical investigation rock engineering tunneling and underground structures slope stability landslides and liquefaction earth retaining structures and deep excavations geosynthetics engineering geo environmental engineering sustainable geotechnics and landfill design geo hydrology dam and embankment engineering earthquake geotechnical engineering transportation geotechnics forensic geotechnical engineering and retrofitting of geotechnical structures offshore geotechnics marine geology and subsea site investigation computational analytical and numerical modeling and reliability in geotechnical engineering The contents of this book are useful for researchers and professionals alike

Highwall Mining John Loui Porathur,Pijush Pal Roy,Baotang Shen,Shivakumar Karekal,2017-07-06 This comprehensive technical book on highwall mining covers theory and practice coupled with practical examples and design aspects It contains eight extensive chapters elaborating broad spectrum functionalities of highwall mining and its operational aspects covering world scenario economic potential methods of coal extraction design methodology including empirical web pillar design numerical modelling

for stress analysis safety factor for web pillars panel and barrier design small and large scale numerical modelling multiple seam interaction and design coal web pillar strength equivalent width concept laboratory testing new web pillar strength formula effect of weak bands in coal seam slope stability safety and ground monitoring hazards and regulatory requirements case examples norms and guidelines for practice It also summarizes the results of research carried out by the CSIR Central Institute of Mining and Fuel Research CSIR CIMFR India and the Commonwealth Scientific and Industrial Research Organisation CSIRO Australia on the subject The book will equip readers in understanding the complex multiple seam scenarios for highwall mining and its design for maximum coal recovery from any given site with better economics which will aid the mining companies in extracting locked up coal following the safety norms to avoid hazards and minimise instability issues A large number of case studies is included to illustrate the application of numerical modelling for prior estimation and viability of highwall mining operations under varying geomining conditions The book will be of interest to professionals and academics in the field of mining engineering specifically but will also interest civil geomechanical and geological engineers as well as rock mechanics professionals Advanced Computational Methods and Geomechanics Shenghong

Chen,2023-01-01 The aim of this book is intended through parallel expounding to help readers comprehensively grasp the intrinsic features of typical advanced computational methods These methods are created in recent three decades for the understanding of the post failure of geo materials accompanied with discontinuous and finite deformation dislocation as well as the violent fluid structure interaction accompanied with strong distortion of water surface The strong points and weak points of the formalisms for governing equations the discretization schemes the nodal interpolation approximation of field variables and their connectivity via support domains covers or enrichments the basic algorithms etc are clarified Being aware of that the differences in these methods are not so large as at the first glance this book will help readers to select appropriate methods to improve the methods for their specific purpose and to evaluate the reliability applicability of the outcomes in the hazard evaluation of geotechnical hydraulic structures beyond extreme work situation This book may be looked at as an advanced continuation of Computational Geomechanics and Hydraulic Structures by the author 2018 Springer Verlag ISBN 978 981 10 8134 7 which elaborates the fundamental computational methods in geomechanics for the routine design of geotechnical hydraulic engineering *Rock Support in Mining and Underground Construction* P.K. Kaiser,D.

McCreath,1992-01-01 An up to date record of the most recent developments and thinking in the methods problems and challenges in the field of rock support including cable bolting shotcrete in mining support in rockburst prone ground and support design analysis and applications *Site Characterization Progress Report* ,1996 **Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Sciences** Heinz Konietzky,2004-10-15 In this fully up to date volume important new developments and applications of discrete element modelling are highlighted and brought together for presentation at the First International UDEC 3DEC Symposium Papers covered the following key

areas behaviour of masonry structures walls bridges towers columns stability and deformation of tunne

Site
Characterization Progress Report: Yucca Mountain, Nevada, DOE/RW-0498, April 1997, 1997 **Underground**
Spaces C. A. Brebbia, D. Kaliampakos, 2008 It is a strongly held belief that population growth and the demand for better accommodation and leisure facilities combined with a desire to improve the landscape will result in the need to develop more underground spaces This phenomenon which started in countries subjected to extreme climates is now becoming more widespread Underground spaces are being utilized for a wide diversity of needs They range from classical excavations to subway constructions underground sports halls power stations waste repositories underground cities and many others Their construction techniques are also varied from open air excavations to newly developed injection methods The response of the underground structures on the imposed loadings depends on a number of parameters that sometimes are too complex or not fully understood resulting in budget overruns or even failures that lead to loss of property or life Such uncertain cases need to be addressed and engineers should be able to accurately predict the construction s performance throughout its construction and service life The First International Conference on Underground Spaces discusses not only structural and environmental material characterization aspects but also the trends regarding the utilization of underground spaces This book contains papers presented at the Meeting and covers a wide range of topics including Use of underground space for industry Underground power stations Toxic and nuclear waste repositories Energy underground reservoirs Underground sewerage plants Waste storage and management Road and railway tunnels Utility tunnels Fire defence Defence against terrorist attacks **Advanced Technologies, Systems, and Applications III** Samir Avdaković, 2018-11-03 This book introduces innovative and interdisciplinary applications of advanced technologies Featuring the papers from the 10th DAYS OF BHAAAS Bosnian Herzegovinian American Academy of Arts and Sciences held in Jahorina Bosnia and Herzegovina on June 21 24 2018 it discusses a wide variety of engineering and scientific applications of the different techniques Researchers from academic and industry present their work and ideas techniques and applications in the field of power systems mechanical engineering computer modelling and simulations civil engineering robotics and biomedical engineering information and communication technologies computer science and applied mathematics **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

Proceedings of ARCH 2019 António Arêde,Cristina Costa,2019-10-01 The book contains proceedings presented at the 9th International Conference on Arch Bridges held in Porto Portugal on October 2 to 4 2019 It is addressed to scientists designers technicians stakeholders and contractors seeking for an up to date view of the recent advances in the area of arch bridges

Pocket Prescriber Emergency Medicine Anthony FT Brown,Timothy Nicholson,Donald RJ Singer,2013-08-30 Drug prescribing errors are a common cause of hospital admission and adverse reactions can have devastating effects some even fatal Pocket Prescriber Emergency Medicine is a concise up to date prescribing guide containing all the must have information on a vast range of drugs that staff from junior doctors to emergency nurses nurse prescribers paramedics and other pre hospital providers may encounter in the emergency setting Key features A Z list of over 500 of the most commonly prescribed drugs with each entry containing the key prescribing information Safety issues warnings drug errors and adverse effects Practical guidance on drug selection plus protocols and resuscitation guidelines Advice and reference information for complicated prescriptions Concise management summaries for common medical and surgical emergencies Essential advice for pain relief from acute pain management to procedural sedation Clinically useful reminders of key facts from basic pharmacology to acute poisoning syndromes Pocket Prescriber Emergency Medicine supplies all your information needs concerning commonly prescribed drugs at a glance enabling on the spot decision making to provide the highest standard of care whilst mitigating prescribing errors

Fluid Flow in Fractured Porous Media Richeng Liu,Yujing Jiang,2019-09-30 The fluid flow in fracture porous media plays a significant role in the assessment of deep underground reservoirs such as through CO2 sequestration enhanced oil recovery and geothermal energy development Many methods have been employed from laboratory experimentation to theoretical analysis and numerical simulations and allowed for many useful conclusions This Special Issue aims to report on the current advances related to this topic This collection of 58 papers represents a wide variety of topics including on granite permeability investigation grouting coal mining roadway and concrete to name but a few We sincerely hope that the papers published in

this Special Issue will be an invaluable resource for our readers

Rock Mechanics and Rock Engineering: From the Past to the Future Reşat Ulusay, 2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 rg p Cappadocia Region Turkey 29 31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Landslide Hazards, Risks, and Disasters Tim Davies, Nick Rosser, 2021-10-17 Landslide Hazards Risks and Disasters Second Edition makes a broad but detailed examination of major aspects of mass movements and their consequences and provides knowledge to form the basis for more complete and accurate monitoring prediction preparedness and reduction of the impacts of landslides on society The frequency and intensity of landslide hazards and disasters has consistently increased over the past century and this trend will continue as society increasingly utilises steep landscapes Landslides and related phenomena can be triggered by other hazard and disaster processes such as earthquakes tsunamis volcanic eruptions and wildfires and they can also cause other hazards and disasters making them a complex multi disciplinary challenge This new edition of Landslide Hazards Risks and Disasters is updated and includes new chapters covering additional topics including rockfalls landslide interactions and impacts and geomorphic perspectives Knowledge understanding and the ability to model landslide processes are becoming increasingly important challenges for society extends its occupation of increasingly hilly and mountainous terrain making this book a key resource for educators researchers and disaster managers in geophysics geology and environmental science Provides an interdisciplinary perspective on the geological seismological physical environmental and social impacts of landslides Presents the latest research on causality impacts and landslide preparedness and mitigation Includes numerous tables maps diagrams illustrations photographs and video captures of hazardous processes Discusses steps for planning for and responding to landslide hazards risks and disasters

Advances in Sustainable Construction Materials and Geotechnical Engineering

Sanjay Kumar Shukla,Sudhirkumar V. Barai,Ankur Mehta,2019-07-02 This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2018 The topics covered include the utilization of industrial by products as construction materials sustainable and green materials in construction applications and latest measures adopted for stabilization techniques The book also discusses recent advances and techniques related to geotechnical and concrete domain that can be used as a reference guide for various researchers and practitioners around the globe

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