



PFC2DTM

Itasca Pfc2d User Guide

**Patricia J. Culligan, Herbert H.
Einstein, Andrew J. Whittle**



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Numerical Modeling in Micromechanics via Particle Methods H. Konietzky, 2002-01-01 Particle methods have seen increasing use in several engineering and scientific fields both because of their unique modelling capabilities and the availability of the necessary computational power This title focuses on their theory and application **Discrete Element Methods** Benjamin K. Cook, Richard P. Jensen, 2002 Proceedings of the Third International Conference on Discrete Element Methods held in Santa Fe New Mexico on September 23 25 2002 This Geotechnical Special Publication contains 72 technical papers on discrete element methods DEM a suite of numerical techniques developed to model granular materials rock and other discontinua at the grain scale Topics include DEM formulation and implementation approaches coupled methods experimental validation and techniques including three dimensional particle representations efficient contact detection algorithms particle packing schemes and code design Coupled methods include approaches to linking solid continuum and fluid models with DEM to simulate multiscale and multiphase phenomena Applications include fundamental investigations of granular mechanics micromechanical studies of powder soil and rock behavior and large scale modeling of geotechnical material processing mining and petroleum engineering problems **Rock Mechanics: Achievements and Ambitions** Meifeng Cai, 2011-09-22 The present work provides an important stimulus for the next generation of rock engineers because in the future there will be more emphasis on the use of the Earth's resources and their sustainability and more accountability of engineers decisions The increasing energy demand will be met by the continued operation and development of new coal mines hydroelectric plants and nuclear power stations with one or more underground nuclear waste repositories In particular enhanced methods of site investigation rock characterisation rock failure understanding computer modelling and rock excavation and support are needed Many of the 200 papers indicate that we can be confident in the continuing development of rock mechanics and r *Underground Space Use. Analysis of the Past and Lessons for the Future, Two Volume Set* Sören Erdem, Tülin Solak, 2005-06-30 The 200 papers in this two volume set are a selection of work by tunnel experts from Europe Asia and the USA and also showcase the work of the host nation Turkey As the title implies the scope of the book is enormous covering every aspect of tunnelling from contract management to safety The book is of special interest to researchers scient **Progress in Industrial and Civil Engineering II** Wei Jun Yang, Jian Guo Liang, 2013-09-03 Selected peer reviewed papers from the 2013 2nd International Conference on Civil Architectural and Hydraulic Engineering ICCAHE 2013 July 27 28 2013 Zhuhai China *Journal of the Mechanical Behavior of Materials*, 2005 **Atlas of Oculoplastic and Orbital Surgery** Thomas C. Spoor, 2009-12-04 Since its inception two generations ago oculoplastic surgery has constantly evolved What was once dogma may now be pass Procedures that were once pass may be resurrected and utilized again Providing simplified solutions to complex problems Atlas of Oculoplastic and Orbital Surgery is a practical problem orientated guide to the management of common oculoplastic and orbital disorders Based on Dr Spoor's thirty years

of practice the book emphasizes the more common oculoplastic conditions likely to present to a busy ophthalmologist The text covers upper and lower eyelid surgery and repair orbital surgery and the prevention and treatment of potential complications The procedures are described with surgical photos and illustrations in a casual didactic fashion as a senior doctor would use instructing a resident or fellow The book is essential reading for ophthalmologists oculoplastic surgeons neuro ophthalmologists and plastic surgeons *CIM Bulletin* Canadian Institute of Mining and Metallurgy,2002

Advances in Chemical Engineering: ICCMME 2011 Yan Xuan Wen,Fu Hou Lei,2011-11-22 Selected peer reviewed papers from the International Conference on Chemical Material and Metallurgical Engineering ICCMME 2011 December 23 25 2011 Beihai China Journal of Engineering Mechanics ,2005 Discrete Element Modeling of Tool-rock Interaction Haiying Huang,1999 This study on discrete element modelling of tool rock interaction focuses on establishing scaling laws between the pheomenological parameters of a material and the properties of a discrete disc assembly and on applying the discrete element method to analyze failure mechanisms in indentation and cutting of rocks The discrete element code PFC2D is employed to carry out this research The scaling laws are constructed to determine the elastic constants the compressive and tensile strengths c and t and the toughness K_{tc} of the disc assembly from the micro scale parameters e g contact stiffnesses shear and normal bond strengths T_s T_n etc The analysis is conducted using dimensional analysis and numerical uniaxial and biaxial tests The numerical results indicate that the bond strength ration T_s T_n different types of materials such as metals and rocks can be modelled An analytical expression for the toughness of a regular square packing assembly is derived The solution can be generalized to the case of an irregular assembly For a mixed mode of failure involving both damage and crack propagation the mean particle radius R is imposed by material properties and is lost as a discretization parameter The indentation and cutting processes are then simulated with particle assemblies having rock like properties The dual failure mechanism observed in rock indentation and cutting experiments are reproduced in numerical simulations The numerical tests validate the concept that only a ductible failure is caused by indentation i e no crack initiates as the damaged zone grows if a scaled flaw length is small The transition from a ductible to a brittle mode of failure in the cutting process is also controlled by a length a critical depts of cut d proportional to $K_{tc} c^2$ The analysisic of the contact on the cutter face reveals that a multi directional flow mechanism exists for the solide ahead of the cutter Due to the divided flow the total force inclination on the cutter depends on the rake angle and is not a measure of the interfacial friction angle between the rock and the cutter **Advanced Building Materials and Sustainable Architecture** Yong Bo Shao,Shu Guang Hao,Yu Ping Luo,Ji Bo Xing,Zhi Yong Liu,2012-05-14 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering Architecture and Building Materials CEABM 2012 May 25 27 2012 Yantai China **Geotechnical and Geophysical Site Characterization** António Viana da Fonseca,Paul W. Mayne,2004 Soils and rocks are complex natural geomaterials that exhibit a wide range in strength stiffness state of stress structure and flow characteristics Geotechnical

Geophysical Site Characterization provides eleven keynote state of the art papers including the Mitchell Lecture A total selection of 219 technical papers and theme reports address methods of site exploration related to ground exploration for civil engineering and construction works These two volumes represent a collection of experience knowledge regarding various methods of in situ testing geophysical techniques innovative devices improved interpretation algorithms and statistical treatment of field data for the characterization of soils rocks and other geomaterials The papers represent the written records and documented efforts from international experts from industry academe and government who participated in the Second International Conference on Site Characterization held in Porto Portugal on September 20 22 2004 Topics include the utilization of rotary drilling sampling and coring techniques Of particular interest is the variety of in situ tests including standard penetration cone penetration flat dilatometer pressuremeter vane shear piezocone dynamic probes and specialized tools as well as geophysical approaches resistivity surveys surface waves crosshole downhole electromagnetic conductivity and ground penetrating radar A careful and proper site evaluation is required in the analysis and design of new structures construction monitoring and forensic studies that require remediation Many of the contributions relate to case studies of projects that involve shallow foundations drilled shafts pilings slope stability excavations earth dams tunnels and mining Several papers discuss a combined approach using multiple methods and or complementary set of geotechnical geophysical tests to ascertain the characteristics of the ground back cover

Numerical Methods in Geotechnical Engineering Helmut F. Schweiger, 2006 Numerical Methods in Geotechnical Engineering contains the accepted papers for the 6th European Conference on Numerical Methods in Geotechnical Engineering Graz Austria 6 8 September 2006 They cover a wide range of topics in the field of computational geotechnics providing a state of the art overview on recent developments in constitutive modelling numerical implementation issues coupled and dynamic analysis and a special session on numerical modelling of ground improvement techniques

Proceedings of the ... Annual Symposium on Engineering Geology & Geotechnical Engineering, 2003

Soil and Rock America 2003 Patricia J. Culligan, Herbert H. Einstein, Andrew J. Whittle, 2003

12o Conferencia Panamericana de Mecánica de Suelos E Ingeniería Geotécnica, 39th U.S. Rock Mechanics Symposium, June 22-26th, 2003, Cambridge, Massachusetts, USA. Patricia J. Culligan, Herbert H. Einstein, Andrew J. Whittle, 2003

The Application of Discrete Element Modelling to Finite Deformation Problems in Geomechanics Catherine O'Sullivan (Professor of civil and environmental engineering), 2002

Advances in Civil Engineering II Xiang Dong Zhang, Hong Nan Li, Xia Ting Feng, Zhi Hua Chen, 2012-12-13 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering and Transportation ICCET 2012 October 27 28 2012 Guilin China

Slope Stability 2007 Yves Potvin, 2007

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