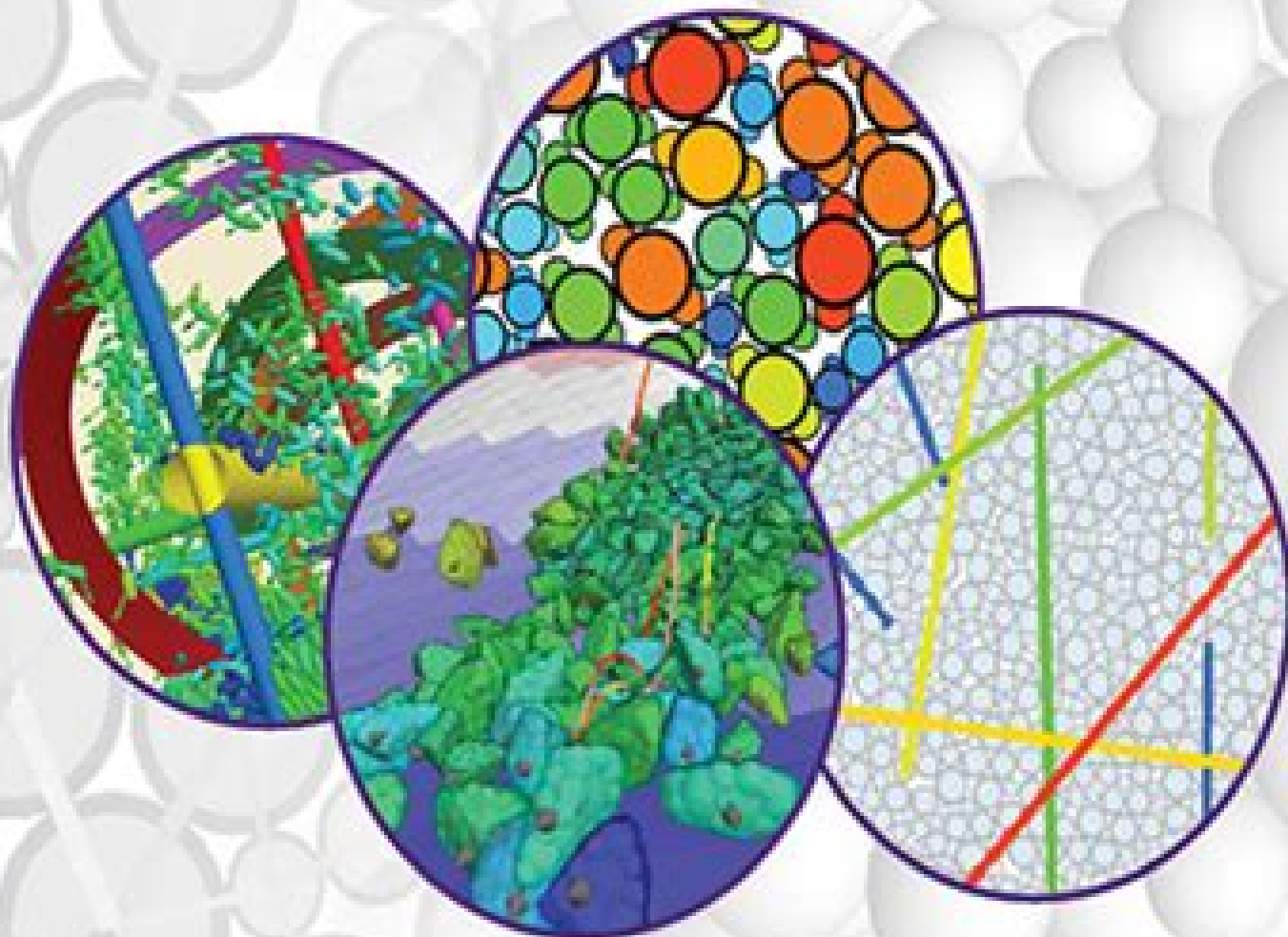
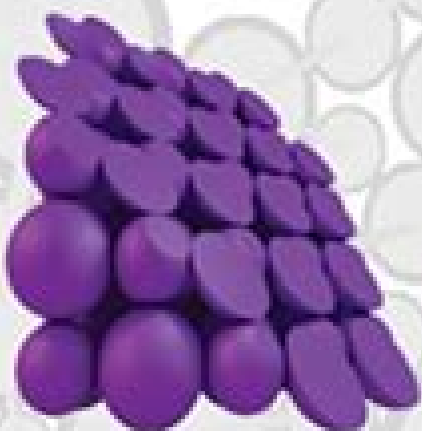


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Version 6.0

General Purpose Distinct-Element Modeling Framework



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John W. Bull



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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

Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures Asteris, Panagiotis G., Plevris, Vagelis, 2015-07-13 Rehabilitation of heritage monuments provides sustainable development and cultural significance to a region The most sensitive aspect of the refurbishment of existing buildings lies in the renovation and recovery of structural integrity and public safety The *Handbook of Research on Seismic Assessment and Rehabilitation of Historic Structures* evaluates developing contributions in the field of earthquake engineering with regards to the analysis and treatment of structural damage inflicted by seismic activity This book is a vital reference source for professionals researchers students and engineers active in the field of earthquake engineering who are interested in the emergent developments and research available in the preservation and rehabilitation of heritage buildings following seismic activity

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

Powders and Grains 2005, Two Volume Set R. Garcia-Rojo, H.J. Herrmann, Sean

McNamara,2005-07-01 This volume contains the proceedings of the Fifth International Conference on the Micromechanics of Granular Media Powders and Grains 2005 Powders and Grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micromechanics of granular media The book is a guide to the hotte **Optical Coherence Tomography in Cardiovascular Research** Evelyn Regar,A.M.G.J. van Leeuwen,Patrick W.

Serruys,2007-03-06 Given that for centuries the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used recent technology now permits the examination of diseased tissue in vivo Optical coherence tomography OCT has promising potential when applied to coronary artery disease OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable If the plaques are stable then OCT can direct percutaneous intervention angioplasty or stenting Optical coherence tomography is a light based imaging technology that allows for very high resolution imaging in biological tissues It has been first applied in ophthalmology where it soon became the golden standard for the assessment of epi retinal processes The unique imaging capabilities have raised the interest of researchers and clinicians in the field of cardiovascular disease since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo With over 1 1M Americans having a heart attack this year because of unstable plaque rupture OCT may have an increasingly important role in the early diagnosis of coronary artery disease This unique publication offers the reader the basic background to OCT and its role in the diagnosis and management of coronary artery disease The Handbook of Optical Coherence Tomography in Cardiovascular Research introduces the cardiovascular application of this technology Clinicians biologists engineers and physicist are discussing different aspects of cardiovascular OCT application in a multidisciplinary approach The handbook offers the readership a concise overview on the current state of the art of vascular OCT imaging and sheds light on a variety of exciting new developments The physics technical principles of OCT and its application in a broad spectrum of cardiovascular research areas are summarized by highly recognized specialists The potential of OCT in peripheral and coronary arteries and in developmental cardiology are described Each research area is introduced by a clinical expert in the field followed by discussion of different aspects from an engineering biomedical and clinical perspective Specifically the current capabilities for plaque characterization detection of vulnerable plaque guidance of interventional procedures Doppler assessment and molecular contrast imaging are being described The Handbook of Optical Coherence Tomography in Cardiovascular Research targets researchers and clinicians involved in the field of atherosclerosis The summary of basic physics engineering solutions pre clinical and clinical application covers all relevant aspects and will be a valuable reference source **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 **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 Analysis of the Static and Dynamic Characteristics of Composite Rubber and Concrete Sleepers on Ballasted Track Zeng Zhiping,A.S. Qahtan Ayoub,Peicheng Li,2024-09-09 The vibrations of railway track occur because of extreme impact load conditions due to the train operations with either wheel or rail irregularity The vibrations result in track deterioration and severe environmental influences Therefore an urgent need exists to manufacture a sleeper tie to mitigate these effects This study used a fullscale model with different kinds of sleepers to measure the vibration mitigation attributes and dynamic characteristics of recently recycled rubber composite sleepers RCSs when applied to ballasted railway tracks and compared them with well established concrete sleepers CSs A high capacity drop hammer weight impact test was used to achieve this purpose and the vibration effects on the track structural elements were analyzed Two cases and a series of interaction force height IFHs impacts for both sleepers were applied *Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management* Massimo Losa,Tom Papagiannakis,2014-04-28 Worldwide there is a growing interest in efficient planning and the design construction and maintenance of transportation facilities and infrastructure assets The 3rd International Conference on Transportation Infrastructure ICTI 2014 Pisa April 22 25 2014 contains contributions on sustainable development and preservation of transportation in **Construction and Urban Planning** Yong Huang,Tai Bao,Hong Wang,2013-03-11 Selected peer reviewed papers from the 2013 International Conference on Structures and Building Materials ICSBM 2013 9 10 March 2013 Guizhou China SME Technical Paper Society of Manufacturing Engineers,2005 Slope Stability 2007 Yves Potvin,2007 **Soil and Rock America 2003** 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 **Journal of Engineering Mechanics** ,2001 *Oil & Gas Science and Technology* ,2002 **Computational Modelling of Masonry, Brickwork and Blockwork Structures** John W. Bull,2001 Provides a review of techniques for modelling masonry brickwork and blockwork structures Trends in Computational Structural Mechanics W. A. Wall,K.-U. Bletzinger,K. Schweizerhof,2001 □□□□ ,2005 **Advances in Grinding and Abrasive Technology XV** Bo Zhao,2009 Volume is indexed by Thomson Reuters CPCI S WoS This volume consists of a selection of papers made from among more than 300 submitted by universities and industrial laboratories All of the papers were subjected to peer review by at least two expert referees Selection for this volume depended upon the quality of the paper and its relevance to the thematic topic This work presents the reader with the most recent advances in the field of abrasive technology including the mechanics and control of abrasive processes modeling simulation and optimization of abrasive processes green and clean production in abrasive processes measurement and surface quality assessment cooling and coolants polishing wheel truing and dressing novel abrasive techniques and novel machining techniques It will therefore be

valuable to production and research engineers research students and academics working in the field For production and research engineers research students and academics this volume draws together selected papers from the 15th Conference of Abrasive Technology in Zhengzhou China held in August 2009 on recent advances in the field of abrasive technology Zhao Henan Polytechnic U China compiles 118 papers on topics including the mechanics and control of abrasive processes modeling simulation and optimization green and clean production measurement and surface quality assessment cooling and coolants polishing finishing wheel truing and dressing the grinding of different materials such as granite nanocomposite ceramics and steel and new abrasive and machining techniques Paper authors work in engineering mostly in China

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