



FLAC3DTM

Itasca Flac3d Manual

Yuzo Ohnishi, Kenji Aoki



Itasca Flac3d Manual:

Optimization of Multistage Hydraulic Fracturing Treatment for Maximization of the Tight Gas Productivity Mengting Li, 2018-12-17 Hydraulic fracturing is essential technology for the development of unconventional resources such as tight gas. So far there are no numerical tools which can optimize the whole process from geological modeling hydraulic fracturing until production simulation with the same 3D model with consideration of the thermo hydro mechanical coupling. In this dissertation a workflow and a numerical tool chain were developed for design and optimization of multistage hydraulic fracturing in horizontal well regarding a maximum productivity of the tight gas wellbore. After the verification a full 3D reservoir model is generated based on a real tight gas field in the North German Basin. Through analysis of simulation results a new calculation formula of FCD was proposed which takes the proppant position and concentration into account and can predict the gas production rate more accurately. However not only FCD but also proppant distribution and hydraulic connection of stimulated fractures to the well geological structure and the interaction between fractures are determinant for the gas production volume. Through analysis the numerical results of sensitivity analysis and optimization variations there is no unique criterion to determine the optimal number and spacing of the fractures it should be analyzed firstly in detail to the actual situation and decided then from case to case.

New numerical approaches to model hydraulic fracturing in tight reservoirs with consideration of hydro-mechanical coupling effects Lei Zhou, 2014-03-20 In this dissertation two new numerical approaches for hydraulic fracturing in tight reservoir were developed. A more physical based numerical 3D model was developed for simulating the whole hydraulic fracturing process including fracture propagation closure and contact as well as proppant transport and settling. In this approach rock formation pore and fracture systems were assembled together in which hydro mechanical coupling effect proppant transport and settling as well as their influences on fracture closure and contact were fully considered. A combined FDM and FVM schema was used to solve the problem. Three applications by using the new approach were presented. The results illustrated the whole hydraulic fracturing process well and seemed to be logical which confirmed the ability of the developed approach to model the in situ hydraulic fracturing operation from injection start till fully closure. In order to investigate the orientation problem of hydraulic fracturing in tight reservoir a new approach for simulating arbitrary fracture propagation and orientation in 2D was developed. It was solved by a hybrid schema of XFEM and FVM. Three numerical studies were illustrated which proved the ability of the developed approach to solve the orientation problem in field cases.

Landslides: Evaluation and Stabilization/Glisement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes W. Lacerda, Mauricio Ehrlich, S.A.B. Fontoura, A.S.F.

Sayao, 2004-06-15 These volumes comprise the Proceedings of the Ninth International Symposium on Landslides held in Rio de Janeiro Brazil from June 28 to July 2 2004. A wealth of the latest information on all aspects of landslide hazard encompassing geological modelling and soil and rock mechanics landslide processes causes and effects and damage.

avoidance and limitation strategies Landslides and Engineered Slopes. From the Past to the Future, Two Volumes + CD-ROM Zuyu Chen, Jian-Min Zhang, Ken Ho, Fa-Quan Wu, Zhong-Kui Li, 2008-06-11 270 Expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies Reference source for academics and professionals in geo mechanical and geo technical engineering and others involved with research des **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 Felsbau ,2004 *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 Mine Planning and Equipment Selection ,1998 **Manufacturing Processes and Systems** Xianghua Liu, Zheng Yi Jiang, Jingtao Han, 2010-10-27 Selected peer reviewed papers from the 2010 International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2010 6 8 November 2010 Shenzhen China **Workshop Report** , *Géotechnique* ,2008 H2Geo Richard L. Wiltshire, Christoph M. Goss, Harold W. Olsen, 2005 GPP 2 contains 17 papers presented at the Biennial Geotechnical Symposium held in Denver Colorado October 22 2004 *Contributions of Rock Mechanics to the New Century* Yuzo Ohnishi, Kenji Aoki, 2004 **High Level Radioactive Waste Management** ,1996 **Pipelines 2005** American Society of Civil Engineers. Pipeline Division. Specialty Conference, 2005 This collection contains more than 90 papers presented at the ASCE Pipeline Division Specialty Conference held in Houston Texas August 21 24 2005

Proceedings of the Conference "Mass Movement Hazard in Various Environments" Marek Graniczny, 2005

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 Äspö Hard Rock Laboratory, 2006 **Soils and Foundations**, 2004 *Prediction, Analysis and Design in Geomechanical Applications* Giovanni B. Barla, Marco Barla, 2005

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