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Description 3DEC is a three-

dimensional numerical modeling code

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for advanced geotechnical analysis of soil, rock, ground water, structural support, and masonry. 3DEC simulates the response of discontinuous media (such as jointed rock or masonry bricks) that is subject to either static or dynamic loading.

3DEC | US Minneapolis - Itasca Consulting Group, Inc.

3DEC. Welcome to the 3DEC 7.0 documentation.. Users of previous versions of 3DEC may find the page 3DEC 7 for 3DEC 5.2 Users a good place to start before delving into this version's commands and FISH.. New users should start here: Getting Started. Base 3DEC Commands. The main commands used by 3DEC are encapsulated on the list below. Note these are a mix of 3DEC-specific commands and commands ...

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3DEC | 3DEC 7.0 documentation -
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Minneapolis - Itasca Consulting Group, Inc. 3DEC.

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volume is the user's guide to 3DEC.

This guide contains general

information on the operation of 3DEC

for engineering mechanics

computation. Section 1 gives an

introduction to the capabilities and

applications of 3DEC. An overview of

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of 3DEC

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manual 3-D Distinct Element Code

(Version 1.00). ITASCA

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210 1313 5th Street SE Minneapolis,
Minnesota 55414 3DEC Is the latest
version of the distinct element method
for simulating the behavior of This
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3DEC | Germany - Itasca Consultants
GmbH

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3DEC and UDEC 2021 Remote Introductory Training - Online! ...
Instructions for doing this are in the Constitutive Model Volume of the PDF manual. ... \Program Files\Itasca\UDEC700\exe64\vc_redist.x64.exe to install the necessary files. Note this step need only be performed once.

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This supplement includes an
executable for converting VRML CAD
files to 3DEC models. Documentation
and examples are also included.
Supplement_CAD.zip. Download
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2020. 3DEC 5.20 64-bit Update.
3dec520_292.msi; Software Update
Revisions

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The other major sections of the documentation are either specific to other Itasca numerical modeling codes, with which 3DEC is integrated (the PFC and FLAC3D sections), or are devoted to aspects of the software that are shared by all the numerical codes (Program Guide and Scripting).

3DEC Modeling This section is a user's guide specific to 3DEC.

Guide to 3DEC Documentation ¶

3DEC 7.0 documentation

Description 3DEC is a three-dimensional numerical modeling code for advanced geotechnical analysis of

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soil, rock, ground water, structural support, and masonry. 3DEC simulates the response of discontinuous media (such as jointed rock or masonry bricks) that is subject to either static or dynamic loading.

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3DEC | Australia - Itasca Australia Pty Ltd.

List amount of memory that is actively

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being used by 3DEC. moment. List block moments of inertia. polyhedron faces > Create a file that contains block create polyhedron face commands that will recreate the block. This file can be called directly as a data file. This is used to extract portions of a model (only visible blocks are ...

block list command | 3DEC 7.0
documentation

Description 3DEC is a three-dimensional numerical modeling code for advanced geotechnical analysis of soil, rock, ground water, structural support, and masonry. 3DEC simulates the response of discontinuous media (such as jointed rock or masonry bricks) that is subject to either static or dynamic loading.

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3DEC | Canada - Itasca Consulting
Canada, Inc.

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Manual Itasca 3dec Manual

Description 3DEC is a three
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soil rock ground water structural

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support and masonry 3DEC simulates the response of discontinuous media such as jointed rock or masonry bricks that is subject to either static or 2 / 3

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

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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.

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.

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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.

Rock Mechanics and Rock Engineering: From the Past to the Future contains the contributions presented at EUROCK2016, the 2016

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International Symposium of the International Society for Rock Mechanics (ISRM 2016, Ürgüp, 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

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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.

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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

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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

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modeling.

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

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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

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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.

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

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deformation of tunnels and caverns in fractured rock masses *
geomechanical modelling for mining and waste repositories * rock reinforcement design (anchors, shotcrete, bolts) * mechanical and hydro-mechanical behaviour of dams and foundations * rock slope stability, deformation and failure mechanisms * modelling of fundamental rock mechanical problems * modelling of geological processes * constitutive laws for fractured rock masses and masonry structures * dynamic behaviour of discrete structures. Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering, and Earth Sciences provides an ultra-modern, in-depth analysis of discrete element modelling in a range of different fields, thus proving valuable reading for civil,

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mining, and geotechnical engineers, as well as other interested professionals.

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.

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