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Numerical Simulation Of Vertical
Ground- Water Flux of the Rio Grande
from Ground-Water Temperature
Profiles, Central New Mexico By James R.
Bartolino and Richard G. Niswonger _____
U.S. GEOLOGICAL SURVEY Water-
Resources Investigations Report 99-4212

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A contribution to the Ground-Water
Resources Program Albuquerque, New
Mexico 1999

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Central New Mexico By James R.
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Ground-Water Flux of the ...

In the work presented here, ground-water temperature profiles and ground-water levels beneath the Rio Grande were measured and numerically simulated at four sites. The direction and rate of vertical ground-water flux between the river and underlying aquifer was simulated and the effective vertical

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hydraulic conductivity of the sediments underlying the river was estimated through model calibration.

Numerical simulation of vertical ground-water flux of the ...

Numerical simulations of vertical GHEs with various depths of ground water table were carried out to investigate the

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effect of an unsaturated ground zone above the ground water table on the performance of the intermittent operation mode.

Numerical simulation of vertical ground heat exchangers ...

Numerical Simulation of Vertical Ground Stress Distribution along Fault Trend

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Direction in a Metal Mine . By Youxi Wang and Guangzhe Deng. Abstract. Key word: fault trend direction; ground stress; numerical simulation; Abstract. The fault breaks continuous ground stress distribution. The rock mass in fault zone is weak and broken, it becomes ...

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Numerical Simulation of Vertical Ground Stress ...

Abstract: This paper presents the numerical simulation of several types of vertical ground heat exchangers. The ground heat exchangers (GHEs) such as U-tube, double-tube and multi-tube were simulated using the commercial CFD software FLUENT. Water flows through

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the heat exchangers and exchanges the heat to the ground. The inlet and outlet water

NUMERICAL SIMULATION OF VERTICAL GROUND HEAT EXCHANGERS ...

In this paper, a three-dimensional unstructured finite volume numerical

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model of vertical U-tube ground heat exchangers is proposed. The model uses Delaunay triangulation method to mesh the cross-section domain of the borefield, which includes not only the exterior of the borehole but also more importantly the interior of it.

Development of a numerical model

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Considering the heat capacity inside vertical spiral ground heat exchanger (VSGHEX) in the simulation is one of the most noteworthy challenge to design the ground source heat pump (GSHP) system with VSGHEXs. In this paper, a new simulation model for VSGHEXs is developed by combining the ICS model

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with the CaRM. The developed simulation model can consider the heat capacity inside VSGHEX and ...

A New Simulation Model for Vertical Spiral Ground Heat ...

For the electrothermal de-icing system of an aircraft tailplane, firstly, an unsteady numerical simulation was

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conducted for understanding of the heating of the skin. Then ground tests in dry air conditions for the electrothermal de-icing system were designed and conducted, where the ambient temperatures were under the freezing point. The results of theoretical calculation show that, under the ...

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Unsteady Numerical Simulation and Ground Tests of a ...

Numerical simulation is an acceptable supplement to explore the subgrade vibration varying with the depth. Figure 11 shows the numerical results of vertical stress. The abscissa denotes the maximum value of the vertical stress time history, while the ordinate is the

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depth from the bottom of the embankment, with the downward direction being positive.

Measurement and Numerical Simulation of Ground and ...

Zheng Lu, Junzuo Li, Ying Zhou, Shaking table test and numerical simulation on a vertical hybrid structure under seismic

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excitation, The Structural Design of Tall and Special Buildings, 10.1002/tal.1497, 27, 14, (2018).

Shaking table test and numerical simulation of an RC frame ...

Numerical Simulation by UDEC The UDEC model of ground vibration caused by cylindrical wave propagation in a rock

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mass without any structural plane is shown in Figure 2 (a). The model is semisymmetric, and its dimension is 150 m × 40 m.

Numerical Study of Ground Vibrations Caused by Cylindrical ...

Using numerical solutions of groundwater flow equations, the flow of

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groundwater may be found as horizontal, vertical and, more often, as intermediate. Semi three-dimensional [edit] In semi 3-dimensional models the horizontal flow is described by 2-dimensional flow equations (i. e. in horizontal x and y direction).

Groundwater model - Wikipedia

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This paper presents a numerical study highlighting the presence of vertical seismic excitation. Nonlinear time history analyses are conducted on detailed three-dimensional models of multi-span simply supported and multi-span continuous bridges using a suite of representative ground motions.

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Numerical assessment of vertical ground motion effects on ...

High-Frequency Electromagnetic Field Coupling to a Long, Finite Wire With Vertical Risers Above Ground ... The complex current is analytically approximated and compared to a numerical simulation for illustration purposes. A very good agreement

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between the analytic approximations and the numerical ones from literature and simulations is observed.

High-Frequency Electromagnetic Field Coupling to a Long ...

A variant of MODFLOW-2005 for simulation of laminar and turbulent flow in pipe networks that exchange water

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with model cells and or in horizontal preferential flow layers; CRT (DOS) Version 1.3.1, 2017/03/30 Cascade Routing Tool to Define and Visualize Flow Paths for Grid-Based Watershed Models; GRIDGEN (WIN) Version 1.00.02, 2017/01/06

Water Resources Groundwater

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OpenSeesPL is a PC-based graphical pre- and post-processor (user-interface) for three dimensional (3D) ground and ground-structure response. The 3D Finite Element (FE) computations are conducted using OpenSees developed by the Pacific Earthquake Engineering Research Center (PEER). The analysis

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options available in OpenSeesPL*
include (please see Example Input Files):
1) Pushover Analysis, 2 ...

OpenSeesPL | 3D Lateral Pile- Ground Interaction

Modular 3-D Multi-Species Transport
Model for Simulation of Advection,
Dispersion, and Chemical Reactions of

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Contaminants in Groundwater Systems (MT3D) Exit MT3D is a 3D solute transport model for simulation of advection, dispersion, and chemical reactions of dissolved constituents in ground-water systems.

**Ground Water Modeling Research |
Land and Waste Management ...**

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1 Numerical simulation of ground source heat pump system considering unsaturated soil properties and groundwater flow Chaofeng Li a, Peter John Cleall b,* , Jinfeng Mao a,* , José Javier Muñoz-Criollo b a PLA University of Science and Technology, Nanjing 210007, PR China b Cardiff School of Engineering, Cardiff University, Cardiff

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