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A Numerical Simulation of
Cyclic Mesocyclogenesis ...
Because the
interrelationship of lakes

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and ground water is perhaps the least understood aspect of lake hydrology, vertical-section, steady-state, numerical-model simulations were run to evaluate the factors that control the interaction of lakes and ground water. The study is concerned only with lakes encircled by water-table mounds that are at a higher altitude than lake level.

NUMERICAL SIMULATION OF VERTICAL GROUND HEAT EXCHANGERS ...

By verifying modelled results with corresponding case studies on vertical pile in liquefied ground, the proposed modelling

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method is shown to be suitable for the simulation with acceptable accuracy. Based on the proposed model with inclined piles, a series of numerical analyses is conducted to examine the influence of raked angle and liquefaction on the seismic response of the model.

Numerical simulation of vertical ground heat exchangers ...

Simulation of vertical U-tube ground-coupled heat pump systems using the cylindrical heat source solution. ASHRAE Transactions 97: 287-294 (1991).

[5] L. Lamarche, B. Beauchamp B. Energy Build,

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Numerical Simulation Of Vertical Ground Heat Exchangers

The numerical results show that Duxseal performed exceedingly well in screening ground vibrations in the free field. The effectiveness of the vibration isolation increases with the increase in the width, thickness, and embedded depth of the Duxseal material, within a certain range, under harmonic vertical excitation.

Numerical Analysis on the
Ground Vibration Isolation

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A three-dimensional nonhydrostatic numerical model, the Advanced Regional Prediction System, is used to study the process of cyclic mesocyclogenesis in a classic supercell thunderstorm. During the 4-h simulation, the storm's mesocyclone undergoes two distinct occlusions, with the beginning of a third indicated at the end of the simulation.

Numerical simulation for thermal response test performance ...

Abstract: This paper presents the numerical simulation of several types

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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 the heat exchangers and exchanges the heat to the ground.

Development of a numerical model for the simulation of

...

The effect of unsaturated soil conditions on the intermittent operation of vertical GCHP systems was examined using finite element numerical simulation. Heat transfer through a vertical ground

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heat exchanger and ground were simulated with a three-dimensional transient conductive heat transfer model.

Field Test and Numerical
Simulation on Heat Transfer

...

The fault breaks continuous ground stress distribution. The rock mass in fault zone is weak and broken, it becomes stress decreasing zone. The paper, which is combined with engineering practice and rock mechanics test, numerically simulates geological environment of fault zones and analyzes faults trend direction influence on ground stress

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distribution in the metal
mine.

Numerical Simulation and
Experimental Validation of a

...

This numerical simulation of
vertical ground heat
exchangers, as one of the
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includes topics like
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Numerical simulation of
inclined piles in
liquefiable ...

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(2014). A Numerical Model for the Simulation of a Vertical U-Bend Ground Heat Exchanger Used in a Ground-Coupled Heat Pump.

International Journal of Green Energy: Vol. 11, No. 7, pp. 761-785.

Numerical Simulation Of Vertical Ground

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

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not only the exterior of the borehole but also more importantly the interior of it.

Numerical Simulation of
Mammatus | Journal of the

...

T1 - Numerical simulation for thermal response test performance in closed-loop vertical ground heat exchanger. AU - Choi, Jong Min. AU - Lee, Chulho. AU - Park, Moonseo. AU - Kang, Shin Hyung. AU - Choi, Hangseok. PY - 2011/7/1. Y1 - 2011/7/1

Numerical simulation of
vertical ground heat
exchangers ...

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Numerical simulation and analytical solutions were used in the CBHE research, to some extent [12,13,14]. The influence of different factors on the heat transfer efficiency of CBHE has been studied: research of the CBHE with different diameter ratios and borehole depths shows that it is better to use a coaxial BHE with a lower diameter ratio and borehole depth, than a higher diameter ratio and ...

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

The domain extends from 3500
to 9500 m above ground level

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(AGL) in all but one simulation (M4, see Table 1) in which the domain extends from 3000 to 9000 m AGL to better position the anvil in the model domain. At the upper and lower boundaries, the vertical velocity is zero and the boundaries are free slip.

Numerical simulation analysis of the interaction of lakes ...

Numerical Simulation of Vertical Ground Stress Distribution along Fault Trend Direction in a Metal Mine p.119. The Coupled Thermo-Hydro-Mechanical Behavior of Saturated Fractured Solids p.123. A

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Preliminary Analysis of Main
Factors ...

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

Ground-water levels and
temperatures were measured
in the four piezometer nests
a total of seven times in
the 24-month period from
September 1996 through
August 1998. The flux
between the surface- and
ground-water systems at each
of the field sites was
quantified by one-
dimensional numerical
simulation of the water and
heat exchange in the

Numerical Simulation of

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Vertical Ground-Water Flux
of the ...

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Ground Heat Exchangers

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ground, heat, exchangers

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Numerical Simulation of
Vertical Ground Stress ...
Considering the heat
capacity inside vertical
spiral ground heat exchanger
(VSGHEX) in the simulation
is one of the most

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

Numerical Simulation of
Vertical Ground Stress ...
Numerical simulation of
vertical ground heat
exchangers: Intermittent
operation in unsaturated
soil conditions Article in
Computers and Geotechnics
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vertical ground-water flux
of the Rio Grande from
ground-water temperature
profiles, central New
Mexico: Series title: Water-
Resources Investigations
Report: Series number:
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