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Computational Modeling Of Shallow Geothermal

His main area of interest is in computational mechanics with emphasis on computational geoenvironment. In particular, he is a developer of analytical, semi-analytical and numerical models for wave propagation in layered systems, multiphase flow and heat and fluid flow in shallow geothermal systems.

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Finite element modeling of shallow geothermal systems. A Step-by-step Guide to Developing Innovative Computational Tools for Shallow Geothermal SystemsGeothermal heat is a viable source of energy and its environmental impact in terms of CO2 emissions is significantly lower than conventional fossil fuels.

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This book addresses computational modeling of shallow geothermal systems in considerable detail, and provides researchers and developers in computational mechanics, geosciences, geology and geothermal engineering with the means to develop computational tools capable of modeling the complicated nature of heat flow in shallow geothermal systems in rather straightforward methodologies.

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CRC Press, 2011. 246 p. ISBN 1280122501, 9781280122507. Geothermal heat is a viable source of energy and its environmental impact in terms of CO2 emissions is significantly lower than conventional fossil fuels. Shallow geothermal systems are increasingly utilized for heating and cooling...

Al-Khoury R. Computational Modeling of Shallow Geothermal ...

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This book is dedicated to the numerical modeling of shallow geothermal systems. The utilization of shallow geothermal energy involves the integration of multiple Borehole Heat Exchangers (BHE) with Ground Source Heat Pump (GSHP) systems to provide heating and cooling. The modeling practices explained in this book can improve the efficiency of these increasingly common systems.

Geoenergy Modeling II - Shallow Geothermal Systems ...

It addresses computational modeling of shallow geothermal systems in considerable details, and provides researchers and developers in computational mechanics, geosciences, geology and geothermal engineering with the means to develop computational tools capable of modeling the complicated nature of heat flow in shallow geothermal systems in rather straightforward methodologies.

Computational modeling of shallow geothermal systems (Book ...

the modeling of shallow processes (shallow processes in the vadose zone). - accurately describe transport phenomena (heat and tracer) in an eulerian framework. Besides the oil & gas industry standards, there has been several recent initiatives for the development of high temperature geothermal

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It addresses computational modeling of shallow geothermal systems in considerable details, and provides researchers and developers in computational mechanics, geosciences, geology and geothermal engineering with the means to develop computational tools capable of modeling the complicated nature of heat flow in shallow geothermal systems in rather straightforward methodologies.

Computational modeling of shallow geothermal systems ...

Geothermal Reservoir Engineering offers a comprehensive account of geothermal reservoir engineering and a guide to the state-of-the-art technology, with emphasis on practicality. Topics covered include well completion and warm-up, flow testing, and field monitoring and management. A case study of a geothermal well in New Zealand is also presented.

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This book addresses computational modeling of shallow geothermal systems in considerable detail, and provides researchers and developers in computational mechanics, geosciences, geology and geothermal engineering with the means to develop computational tools capable of modeling the complicated nature of heat flow in shallow geothermal systems in rather straightforward methodologies.

flow and heat transfer in geothermal systems

Along this line, Dr. Al-Khoury has published more than 25 peer-reviewed journal papers, and authored a book on "Computational Modeling of Shallow Geothermal Systems" in 2012, published by CRC Press/Balkema. Jochen Bundschuh finished his PhD on numerical modeling of heat transport in aquifers in Tübingen in 1990.

Computational Models for CO2 Geo-sequestration ...

This tutorial "Computational Energy Systems II: Shallow Geothermal System" contains several parts. In Chap.2, the governing equations of the numerical model will be defined. Chapter 3 shows the user how to set up a project to simulate heat transport processes induced by a BHE operation.

Haibing Shao - Philipp Hein Agnes Sachse - Olaf Kolditz ...

This is achieved by combining statistical, computational and numerical modeling methods with experimental techniques conducted at various scales. Some of the applications of her work include carbon sequestration, hydrocarbon recovery and geothermal energy production.