

Thermal Use Of Shallow Groundwater

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Thermal Use Of Shallow Groundwater

Thermal Use of Shallow Groundwater introduces the theoretical fundamentals of heat transport in groundwater systems, and discusses the essential thermal properties. It presents a complete overview of analytical and numerical subsurface heat transport modeling, providing a series of mathematical tools and simulation models based on analytical and numerical solutions of the heat transport equation.

Thermal Use of Shallow Groundwater - CRC Press Book

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Thermal Use of Shallow Groundwater: Fritz Stauffer, Peter ...

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On the other hand, thermal use may also include pumping of groundwater for cooling purposes and reinjection of warm water. Both systems may even be seasonally combined. A related topic is heat storage (Dinçer and Rosen 2011).

Introduction | Thermal Use of Shallow Groundwater | Taylor ...

For the proper design of thermal systems it is necessary to assess their impact on underground and groundwater temperatures. *Thermal Use of Shallow Groundwater* introduces the theoretical fundamentals of heat transport in groundwater systems, and discusses the essential thermal properties.

Thermal Use of Shallow Groundwater: 1st Edition (Hardback ...

The use of shallow geothermal energy increasingly receives attention as a suitable alternative to fossil fuel-based space heating and cooling, warm water provision, as well as for seasonal heat storage throughout Europe.

Monitoring the impact of intensive shallow geothermal ...

Thermal Use of Shallow Groundwater. *Thermal Use of Shallow Groundwater*. By Fritz Stauffer, Peter Bayer, Philipp Blum, Nelson Molina Giraldo, Wolfgang Kinzelbach. Edition 1st Edition . First Published 2013 . eBook Published 12 December 2013 . Pub. location Boca Raton . Imprint CRC Press .

Numerical solutions | Thermal Use of Shallow Groundwater ...

Thermal use of shallow groundwater. [Fritz Stauffer] -- "Preface The thermal use of the shallow subsurface is increasingly promoted and implemented as one of many promising measures for saving energy.

Thermal use of shallow groundwater (Book, 2014) [WorldCat.org]

The geothermal use of the shallow subsurface can result in local temperature anomalies in the subsurface and the groundwater (e.g., Ferguson and Woodbury, 2006, Hähnlein et al., 2010b, Palmer et al., 1992, Pannike et al., 2006, Rybach and Eugster, 2010).

Sustainability and policy for the thermal use of shallow ...

Shallow groundwater system In 2007, the Department of Water began a three-year program of groundwater investigations, with an increased focus on groundwater-dependent ecosystems and water quality. These investigations followed the McHugh & Bourke report in 2007 that outlined the monitoring and management issues for a number of wetlands in the ...

Shallow groundwater system - Department of Water

the crop water use of shallow groundwater occurs between the last irrigation and crop harvest, when the root zone is at maximum development and the plant is most salt tolerant.

Drought Tip: Use of Shallow Groundwater for Crop Production

Thermal Use of Shallow Groundwater introduces the theoretical fundamentals of heat transport in groundwater systems, and discusses the essential thermal properties. It presents a complete overview of analytical and numerical subsurface heat transport modeling, providing a series of mathematical tools and simulation models based on analytical and numerical solutions of the heat transport equation.

Thermal Use of Shallow Groundwater - Fritz Stauffer, Peter ...

Summary: "Preface The thermal use of the shallow subsurface is increasingly promoted and implemented as one of many promising measures for saving energy. The energy extracted from such systems is referred to as shallow geothermal energy or low-enthalpy energy.

Thermal use of shallow groundwater (eBook, 2014) [WorldCat ...

This paper proposes a method to assess the potential for thermal use of groundwater and its integration in spatial energy planning. The procedure can be adapted to local regulatory and operational limits, thus estimating legally and technically achievable flow rates and subsequently, the thermal power that can be exchanged with the aquifer through a well doublet.

TAP - Thermal aquifer Potential: A quantitative method to ...

Abstract. All of these aspects are crucially impacted by the thermal regime of the subsurface. Due to the limited accessibility of aquifers however, temperature measurements are scarce. Most commonly, shallow groundwater temperatures are approximated by adding an offset to annual mean surface air temperatures.

Global patterns of shallow groundwater temperatures ...

They conclude that ATEs systems have impacts on ground-water and that risk management strategies have to be developed for shallow geothermal storage systems. In our study, environmental and technical, as well as social and policy aspects are reviewed, which are relevant for the entire spectrum of sustainable thermal use of the shallow groundwater

Sustainability and policy for the thermal use of shallow ...

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