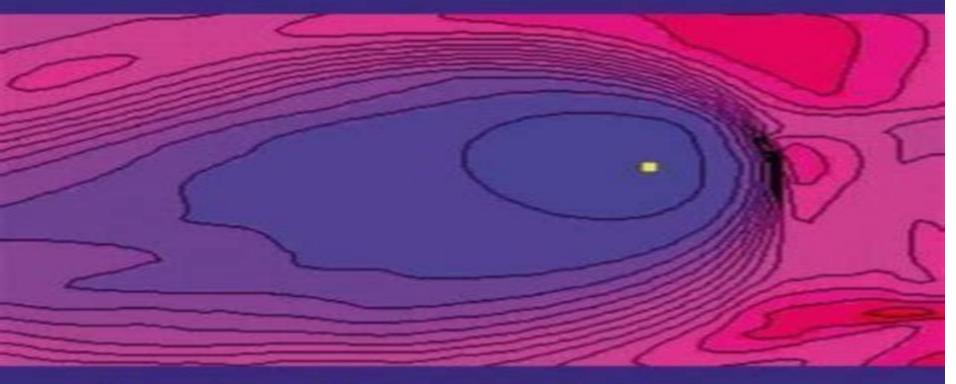
Thermal Use of Shallow Groundwater



Fritz Stauffer, Peter Bayer, Philipp Blum, Nelson Molina Giraldo, and Wolfgang Kinzelbach



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Alejandro García Gil, Eduardo Antonio Garrido Schneider, Miguel Mejías Moreno, Juan Carlos Santamarta Cerezal

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Thermal Use of Shallow Groundwater Fritz Stauffer, Peter Bayer, Philipp Blum, Nelson Molina Giraldo, Wolfgang Kinzelbach, 2013-12-12 The thermal use of the shallow subsurface is increasingly being promoted and implemented as one of many promising measures for saving energy A series of guestions arises concerning the design and management of underground and groundwater heat extraction systems such as the sharing of the thermal resource and the assessment of its long term potential 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 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 It is illustrated with case studies from Austria Germany and Switzerland of urban thermal energy use and heat storage and cooling This book gives a complete set of analytical solutions together with MATLAB computer codes ready for immediate application or design It offers a comprehensive overview of the state of the art of analytical and numerical subsurface heat transport modeling for students in civil or environmental engineering engineering geology and hydrogeology and also serves as a reference for industry professionals **Impacts of Shallow Geothermal Energy on Groundwater Quality** Matthijs Bonte, 2015-01-15 The use of shallow geothermal energy SGE systems to acclimatize buildings has increased exponentially in the Netherlands and worldwide In certain areas SGE systems are constructed in aquifers also used for drinking water supply raising the question of potential groundwater quality impact Impacts of Shallow Geothermal Energy on Groundwater Quality provides a hydrochemical and geomicrobial overview of the effects of ground source heat pumps and aguifer thermal energy storage The area is investigated with field and laboratory experiments and reactive transport models showing that shallow geothermal energy systems can influence groundwater quality in a number of ways Most prominent in open ground source heating systems operating at low temperature 20 C is the physical mixing of deep and shallow groundwater of different quality distorting the natural water quality stratification in aguifers At a temperature of 25 C and beyond certain trace elements were observed to mobilize in laboratory experiments and beyond 40 C redox conditions change significantly while the microbial community shift towards a thermophilic community div Based on the results of this research quidelines are presented for monitoring and permitting of SGE systems The book is a useful resource for regulators of these systems water companies and installers of the SGE systems Author Matthijs Bonte Amsterdam The Netherlands Design of Heat Exchangers for Heat Pump Applications Marco Fossa, Antonella Priarone, 2020-12-28 Heat pumps HPs allow for providing heat without direct combustion in both civil and industrial applications. They are very efficient systems that by exploiting electrical energy greatly reduce local environmental pollution and CO2 global emissions. The fact that electricity is a partially renewable resource and because the

coefficient of performance COP can be as high as four or more means that HPs can be nearly carbon neutral for a full sustainable future The proper selection of the heat source and the correct design of the heat exchangers is crucial for attaining high HP efficiencies Heat exchangers also in terms of HP control strategies are hence one of the main elements of HPs and improving their performance enhances the effectiveness of the whole system Both the heat transfer and pressure drop have to be taken into account for the correct sizing especially in the case of mini and micro geometries for which traditional models and correlations can not be applied New models and measurements are required for best HPs system design including optimization strategies for energy exploitation temperature control and mechanical reliability Thus a multidisciplinary approach of the analysis is requested and become the future challenge Underground Infrastructures Manoj Khandelwal, Danial Jahed Armaghani, Ramesh Murlidhar Bhatawdekar, Pijush Samui, Saffet Yagiz, 2025-03-31 Advancements in Underground Infrastructures presents the advanced modelling tools and experimental techniques applied in underground infrastructure development. It examines the usage of mathematical tools experimental techniques and data driven models as well as the latest technological advancements in underground engineering used to enhance the safety and stability of underground structures It also addresses the application of the circular economy model in underground engineering Provides modelling theories in an easy to read format verified by on site models for various regions and scenarios Presents applications of soft computing tools and techniques in underground engineering Includes practical examples and case studies Colour versions of the figures in this book can be found at www routledge com 9781032373379 Advanced Manufacturing and Automation X Yi Wang, Kristian Martinsen, Tao Yu, Kesheng Wang, 2021-01-22 This book presents selected papers from the 10th International Workshop of Advanced Manufacturing and Automation IWAMA 2020 held in Zhanjiang Guangdong province China on October 12 13 2020 Discussing topics such as novel techniques for manufacturing and automation in Industry 4 0 and smart factories which are vital for maintaining and improving economic development and quality of life it offers researchers and industrial engineers insights into implementing the concepts and theories of Industry 4 0 in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factories Salt Wells Energy Projects ,2011 Energy Geotechnics Alessio Ferrari, Lyesse Laloui, 2018-08-23 This book collects selected full papers presented at the International Symposium on Energy Geotechnics 2018 SEG 2018 held on 25th 28th September 2018 at the Swiss Federal Institute of Technology in Lausanne EPFL It covers a wide range of topics in energy geotechnics including energy geostructures energy geostorage thermo hydro chemo mechanical behaviour of geomaterials unconventional resources hydraulic stimulation induced seismicity CO2 geological storage and nuclear waste disposal as well as topics such as tower and offshore foundations The book is intended for postgraduate students researchers and practitioners working on geomechanics and geotechnical engineering for energy related applications Heat Analysis and Thermodynamic Effects Amimul Ahsan, 2011-09-22 The heat transfer and

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