



Fluid temperature modelling injected at surface temperature through vertical wells

By Jesus Rodriguez

GRIN Verlag Okt 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x1 mm. This item is printed on demand - Print on Demand Neuware - Research paper from the year 2015 in the subject Engineering - General, Basics, , language: English, abstract: This paper presents a brief bibliographic summary of the related well heat transfer models, most of them are designed for predicting heat loss along wells. All of those models lead to temperature profiles which show a lowering on fluid temperature during the injection from the wellhead to the wellbore, that make those models fit perfectly into the heat loss statement. The purpose of this article is to show a way to calculate the temperature increase of a fluid injected at surface temperature along a well by modifying an existing equation which was proposed by Boyun Guo (2004), this one satisfies the non-phase change of the injected fluid during its flow through the well, this implies that the selected model does not take into account latent heat change of the injected fluid, the previous fact is very important for this study because it is supposed that the injected fluid is not going to change its phase. Modifying Boyun Guo (2004) energy...



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