Schmidt Steady State Seepage Calculator

Schmidt, C., Conant Jr, B., Bayer-Raich, M. and Schirmer, M., 2007. Evaluation and field-scale application of an analytical method to quantify groundwater discharge using mapped streambed temperatures. Journal of Hydrology, 347(3–4): 292-307.

This notebook utilizes steady-state sediment temperature profile to estimate groundwater seepage flux. Users are encouraged to familiarize with the theory beforehand. The only assumed parameters in the steady-state models are volumetric heat capacity of water (ρ fcf) and thermal conductivity (k) of the saturated porous media. Please look up the worksheet - "Parameter Metadata" for applicable parameter values.