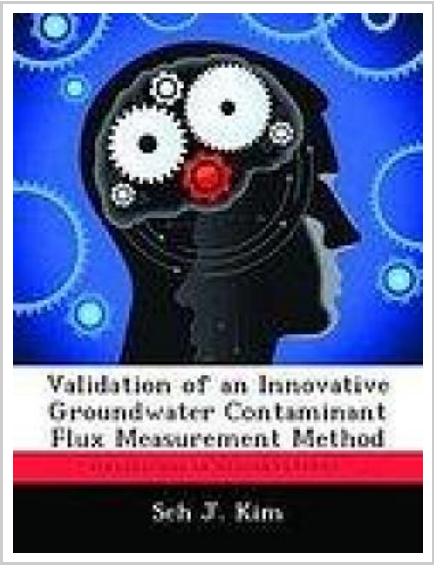

Validation of an Innovative Groundwater Contaminant Flux Measurement Method

By Seh J. Kim

Bibliioscholar Dez 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x6 mm. This item is printed on demand - Print on Demand Neuware - Flux measurement methods can be categorized as either point methods or integral methods. As the name suggests, point methods measure flux at a specific point or points in the subsurface. To increase confidence in the accuracy of the measurement, it is necessary to increase the number of points (and therefore, the cost) of the sampling network. Integral methods avoid this disadvantage by using pumping wells to interrogate large volumes of the subsurface. Unfortunately, integral methods are expensive because they require that large volumes of contaminated water be extracted and managed. HFTWs combine the advantages of each of the two approaches described above; that is, it s anintegral technique that samples a large volume of the subsurface while not requiring extraction of contaminated water from the subsurface. In this study, the accuracy of the HFTW flux measurement method was quantified by applying the method in an artificial aquifer, where the flux being measured was known. Two HFTW approaches, the multi-dipole approach and the tracer test approach, were compared to each other, as well as being compared to the transect...

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