

Research Question

Fine layering in stratified aquifers causes hydraulic anisotropy.

- Should we estimate the effective anisotropy or try to resolve the heterogeneity?
- estimates?



Choosing Between Heterogeneity and Anisotropy What's in the Data and What Do Your Purposes Require? R. Maier¹, A. Gonzalez-Nicolas², C. Leven¹, W. Nowak², O. A. Cirpka¹

Facing the True Challenges in Model Selection and Optimal Design!

a) Estimating the fully upscaled hydraulic conductivity tensor





Multi-objective optimization

Consider relative prediction errors of all possible model and measurement design combinations \rightarrow 3'264 choices