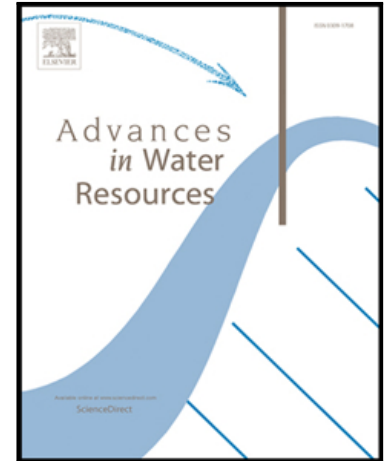


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Revised Manuscript ADWR-15-106: A new formulation of the dispersion tensor in homogeneous porous media

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Highlights

- Dispersion in homogeneous porous media is revisited.
- The effective diffusivity and hydrodynamic dispersion tensors were redefined.
- Closure problems for mass and momentum are written only in terms of closure variables.
- The symmetry properties of the dispersion tensor are analyzed.
- Simulations in terms of the Re , Pe and flow angle show unexpected results.

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