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A wavelet multiscale method for the inverse problem of a nonlinear convection–diffusion equation

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Highlights

1. Permeability identification of a nonlinear convection-diffusion equation is studied.
2. The finite difference scheme for nonlinear convection-diffusion equation is given.
3. A wavelet multiscale method is proposed for parameter identification.
4. This method is one of multiscale inversion method.
5. Numerical simulations testify the effectiveness of the wavelet multiscale method.

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