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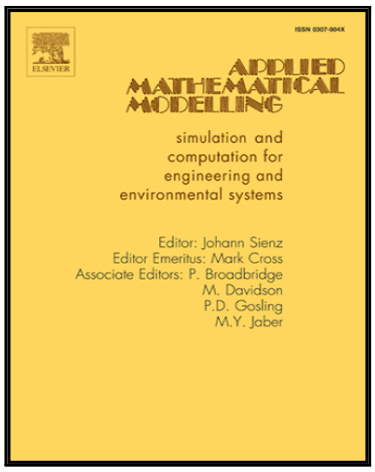

Shape optimization for a seepage problem with low contrast core

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Highlights

- Successful domain-dependent shape optimization strategy using a small-amplitude homogenization approach.
- Results show interesting and engineeringly feasible designs for embankment dams.
- Outflow is significantly reduced for small contrast between core and matrix permeability.

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