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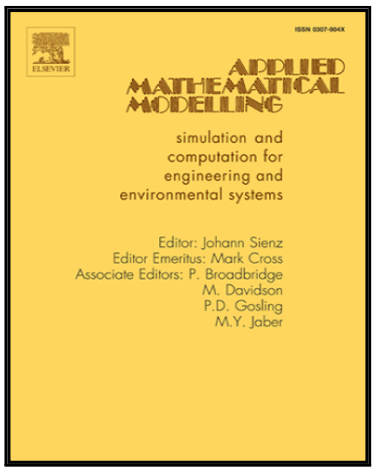

A discontinuous Galerkin method for a new class of Green-Naghdi equations on simplicial unstructured meshes

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Highlights

- a multi-d discrete formulation of the Green-Naghdi equations on unstructured meshes
- the dispersive terms are regarded as an algebraic source term in the NSW equations
- an arbitrary high order of accuracy in space
- the scheme preserves the steady states at rest and the water height positivity

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