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Multi-dimensional shear shallow water flows : problems and solutions

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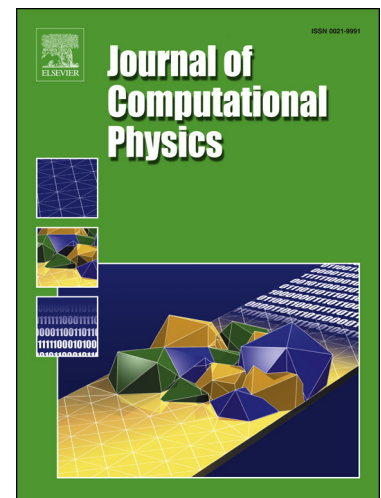
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Highlights

- The proof of non-conservativity of multi-D shear shallow water equations is given.
- A new splitting procedure for non-conservative shear shallow water equations is proposed.
- ‘Fingering’ phenomenon is discovered for roll waves down an inclined plane.

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