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Models and methods for two-layer shallow water flows

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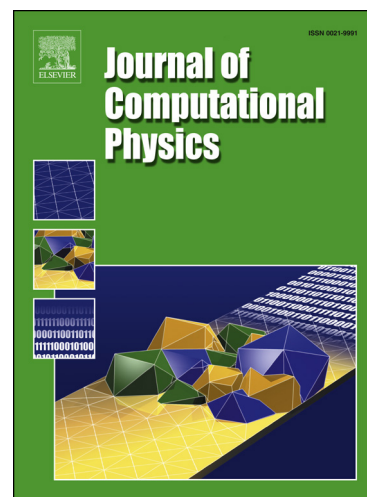
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## Highlights

- A new hyperbolic model for two-layer shallow water flows is developed.
- Non-conservative terms are considered and solved unambiguously.

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