

# Accepted Manuscript

Galerkin Differences for Acoustic and Elastic Wave Equations in Two Space Dimensions

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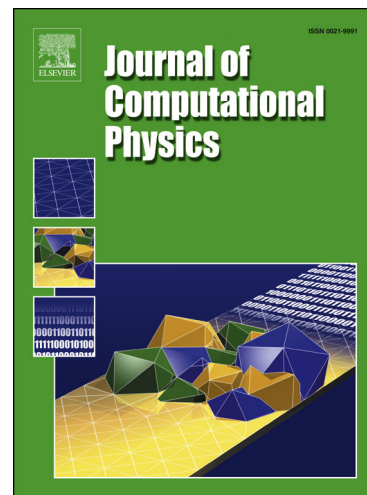
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## Highlights

- Galerkin Difference schemes for 2D wave equations are developed.
- Schemes for acoustics and elasticity are presented.
- A tensor-product formulation enables optimal linear time algorithms.
- Extension to mapped curvilinear domains is performed.
- Comprehensive numerical studies illustrate the theoretical predictions.

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