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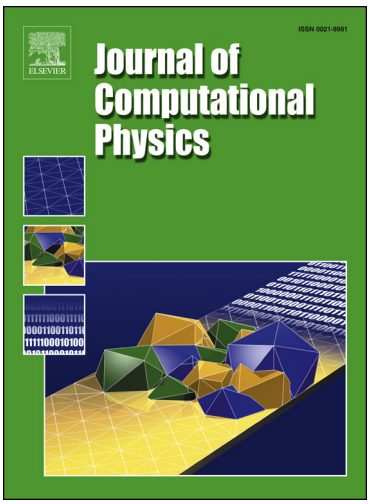

A new central compact finite difference scheme with high spectral resolution for acoustic wave equation

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Highlights

- A central compact finite difference method with high order accuracy is presented.
- This method is designed for the acoustic-wave equation.
- This method is accurate, efficient and memory-saving.
- Two approaches are developed to determine the finite difference coefficients.

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