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Development and analysis of high-order vorticity confinement schemes

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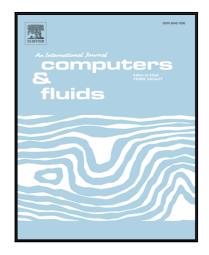
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Highlights

- Time-space decoupled scalar formulation of VC2
- Spectral analysis of confinement schemes for the linear advection equation
- Equivalence of high-order VC with a nonlinear anti-diffusive flux correction
- Validation of the 3^{rd} and 5^{th} -order VC extensions

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