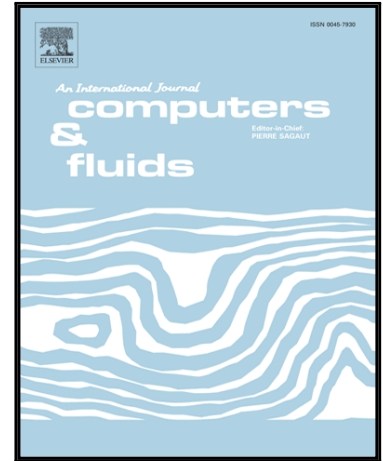


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Global Spectral Analysis of Three–time Level Integration Schemes:
Focusing Phenomenon

Tapan K. Sengupta, Pierre Sagaut, Aditi Sengupta, Kumar Saurabh

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Highlights

- Focusing is shown as a linear mechanism by global spectral analysis.
- Three-time level Adams–Bashforth method shows focusing.
- Wavenumber of error depends on CFL number and independent of input length scale.
- We show focusing is related to absolute numerical instability.
- Use of compact filter, transforms absolute instability to convective instability

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