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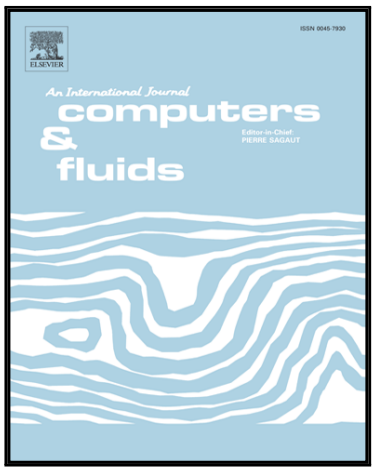

An efficient modified WENO scheme based on the identification of inflection points

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Highlights

- An efficient modified WENO scheme is proposed.
- This scheme switches between the linear upwind scheme and WENO-M scheme.
- A switching principle based on the identification of inflection points is used.
- The switching principle is calculated more quickly and leads to higher efficiency.
- The WENO-M scheme leads to higher numerical accuracy and resolution.

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