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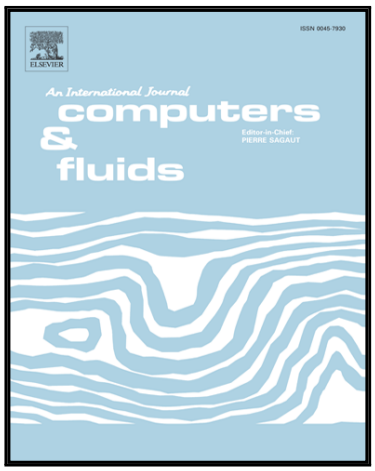

Pressure-Equation-Based SLAU2 for Oscillation-Free, Supercritical Flow Simulations

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Prepared for submission to Elsevier

Highlights

- SLAU 2 Flux functions have been modified for supercritical flows.
- This modification replaces the energy equation with the pressure-evolutionequation.
- Only marginal corrections to the existing methods are needed.
- Numerical errors are suppressed without higher-order term or artificial viscosity.

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