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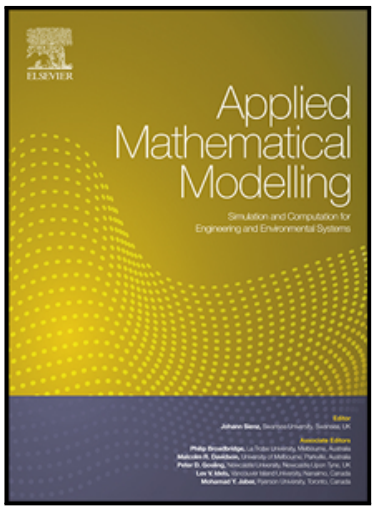

Numerical study of local entropy generation in a heated turbulent plane jet developing in a co-flowing stream

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Highlights

- Effect of co-flow and directed co-flow with positive and negative angles is studied.
- Numerical results are found to be in good agreement with experimental data.
- High entropy generation corresponds to lower co-flow.
- High values of entropy generation are near the nozzle exit.
- The Merit number increases with the co-flow velocity.

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