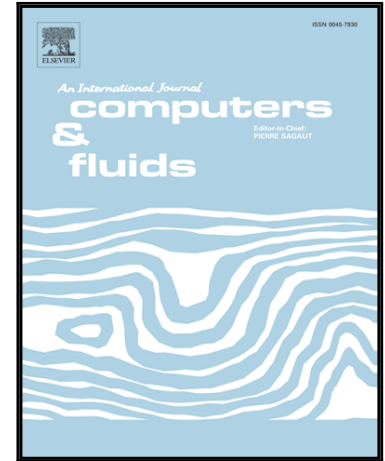


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Steady separation of flow from an inclined square cylinder with sharp and rounded base

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## Highlights

- Initial separation of boundary layer from an inclined square cylinder is studied
- Surprisingly diverse separation-attachment phenomena are found over  $Re = 6-8.2$
- Secondary separation from a symmetric bluff obstacle is reported for the first time
- Two new topologies are proposed and validated via the law of Hunt et al. (1978)
- A flow separation map demarcating regimes of separation is presented for first time

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