

R-007 & Indian Institute of Science

Flow solver: HiFUN 4.4.1 (<https://sandi.co.in/products/>)

- Spatial discretization: 2nd-order, cell-centered, finite-volume, mixed-element, unstructured-grid
- Time integration or iteration method: Steady state
- Name of committee grids (or “self-prepared”): 1.R.01, 2.R.03
- Cases submitted: Case 1; Case 2 (2.1–2.2)
- Initialization method: Free stream conditions

Turbulence model: Standard-SA-noft2-1

- **Convergence/stopping criteria:** meanflow and turbulence-model relative residuals reaches $1e-8$ or Force & Moment coefficient averages over last 1000 iterations remain within prescribed tolerance of $1e-4$.
- Relevant recent publications related to solver and/or high-lift applications:
 - Int J Adv Eng Sci Appl Math (July–December 2014) 6(3–4):222–241, DOI 10.1007/s12572-015-0124-3
 - AIAA 2012-2849
 - AIAA JOURNAL, DOI: 10.2514/1.J055070
 - AIAA Aviation Forum, AIAA 10.2514/6.2023-4080
 - AIAA 2014-2569