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Hybrid sixth order spatial discretization scheme for non-uniform Cartesian grids

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## Highlights

- Here compact scheme on non-uniform grids is presented, applicable on physical plane.
- Method has been analysed by global spectral analysis.
- Unstructured grid numerical properties identified for the first time.
- Method is calibrated for 1D/2D convection problem.
- It is also used for Navier-Stokes equation for 2D problems.

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