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Industrial LES with Unstructured Finite Volumes

Conservation of kinetic energy, while solving only for mass and momentum of incompressible flow, is first discussed in relation with the unstructured finite volume discretisations used in industrial and commercial software. LES applications are shown for a hot wall jet, a fan blade, U-bend pipe, a tube bundle and a T-pipe-junction, using local and systematic embedded grid-refinements or polyhedral cells. The conclusion suggests that ability to locally adapt the grids to the highly variable large eddy scales in complex geometries supersedes the need for higher order schemes or even elaborate subgrid-models.

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