

Deconinck, H.; Paillère, H.; Struijs, R.; Roe, P. L.

Multidimensional upwind schemes based on fluctuation-splitting for systems of conservation laws. (English) Zbl 0771.76048

Comput. Mech. 11, No. 5-6, 323-340 (1993).

Summary: A class of truly multidimensional upwind schemes for the computation of inviscid compressible flows is presented, applicable to unstructured cell-vertex grids. These methods use very compact stencils and produce sharp resolution of discontinuities with no overshoots.

MSC:

76M20 Finite difference methods applied to problems in fluid mechanics

35L65 Hyperbolic conservation laws

Cited in **24** Documents

Keywords:

triangles; tetrahedra; inviscid compressible flows; unstructured cell- vertex grids; discontinuities

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