

Accepted Manuscript

Consistent implementation of characteristic flux-split based finite difference method for compressible multi-material gas flows

Zhiwei He, Li Li, Yousheng Zhang, Baolin Tian

PII: S0045-7930(18)30195-6
DOI: [10.1016/j.compfluid.2018.04.007](https://doi.org/10.1016/j.compfluid.2018.04.007)
Reference: CAF 3852



To appear in: *Computers and Fluids*

Received date: 26 December 2017
Revised date: 28 March 2018
Accepted date: 6 April 2018

Please cite this article as: Zhiwei He, Li Li, Yousheng Zhang, Baolin Tian, Consistent implementation of characteristic flux-split based finite difference method for compressible multi-material gas flows, *Computers and Fluids* (2018), doi: [10.1016/j.compfluid.2018.04.007](https://doi.org/10.1016/j.compfluid.2018.04.007)

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Highlights

- A new finite difference (FD) algorithm for compressible multi-material gas (CMG) flows is proposed.
- Consistency is obtained, and pressure and velocity equilibria are maintained.
- A detailed review of the previous FD algorithms for CMG flows is performed.

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