Accepted Manuscript

A high-order density-based finite volume method for the computation of all-speed flows

Xesús Nogueira, Luis Ramírez, Sofiane Khelladi, Jean-Camille Chassaing, Ignasi Colominas

PII: DOI: Reference:	S0045-7825(15)00323-0 http://dx.doi.org/10.1016/j.cma.2015.10.004 CMA 10724
To appear in:	Comput. Methods Appl. Mech. Engrg.
Received date: Revised date: Accepted date:	 February 2015 October 2015 October 2015

Volume 272, Published 1 May 2718	1954-1924 - 1924
Computer methods in applied mechanics and engineering	Editions T _a CA maying address TA status Address TA status Address TA status Address TA status Address TA status Address TA status Address Add
Audits offer all was associated on ScienceDirect	

Please cite this article as: X. Nogueira, L. Ramírez, S. Khelladi, J.-C. Chassaing, I. Colominas, A high-order density-based finite volume method for the computation of all-speed flows, *Comput. Methods Appl. Mech. Engrg.* (2015), http://dx.doi.org/10.1016/j.cma.2015.10.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

- A high-order density-based finite-volume framework for all-speed flows is presented
- High-order Roe and Rusanov finite volume schemes for all speed flow are developed.
- MLS-based shock wave sensor prevents unnecessarily activation of the slope limiter.
- This avoids the presence of spurious pressure oscillations in low-Mach regions.

Download English Version:

https://daneshyari.com/en/article/6916586

Download Persian Version:

https://daneshyari.com/article/6916586

Daneshyari.com