Accepted Manuscript

Reducing spurious mesh motion in Lagrangian finite volume and discontinuous Galerkin hydrodynamic methods

Nathaniel R. Morgan, Xiaodong Liu, Donald E. Burton

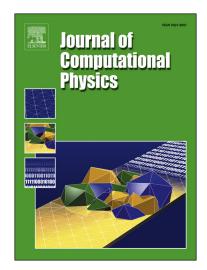
PII: S0021-9991(18)30386-3

DOI: https://doi.org/10.1016/j.jcp.2018.06.008

Reference: YJCPH 8057

To appear in: Journal of Computational Physics

Received date: 27 October 2017 Revised date: 20 April 2018 Accepted date: 1 June 2018



Please cite this article in press as: N.R. Morgan et al., Reducing spurious mesh motion in Lagrangian finite volume and discontinuous Galerkin hydrodynamic methods, *J. Comput. Phys.* (2018), https://doi.org/10.1016/j.jcp.2018.06.008

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.

Highlights

- A velocity filter is presented to reduce spurious mesh motion.
 A new multidirectional approximate Riemann problem is presented.
 More robust mesh motion with higher-order and polygonal meshes.

Download English Version:

https://daneshyari.com/en/article/6928574

Download Persian Version:

https://daneshyari.com/article/6928574

Daneshyari.com