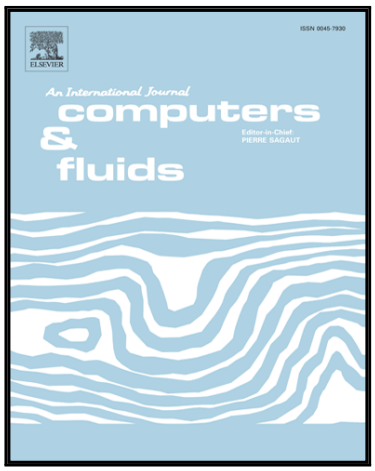
Accepted Manuscript



Further improvement of weighted compact nonlinear scheme using compact nonlinear interpolation

Zhen-Guo Yan, Huayong Liu, Yankai Ma, Meiliang Mao, Xiaogang Deng

PII: S0045-7930(17)30238-4
DOI: 10.1016/j.compfluid.2017.06.028
Reference: CAF 3533

To appear in: *Computers and Fluids*

Received date: 15 January 2017
Revised date: 20 June 2017
Accepted date: 29 June 2017

Please cite this article as: Zhen-Guo Yan, Huayong Liu, Yankai Ma, Meiliang Mao, Xiaogang Deng, Further improvement of weighted compact nonlinear scheme using compact nonlinear interpolation, *Computers and Fluids* (2017), doi: 10.1016/j.compfluid.2017.06.028

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

Highlights

- New 7th-order compact nonlinear scheme on the same stencil as CRWENO is proposed
- Properties of Y type nonlinear weights are further analyzed in an equivalent form
- New characteristic projection method is proposed to improve efficiency
- New scheme has good shock capturing ability and higher resolution
- New scheme has advantage in compressible turbulence simulations and higher efficiency

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5011747

Download Persian Version:

https://daneshyari.com/article/5011747

Daneshyari.com