

High Order Finite Difference Discretization for Composite Grid Hierarchy and Its Applications

preview

Qun Gu, Weiguo Gao and Carlos J. García-Cervera

Communications in Computational Physics / Volume 18 / Issue 05 / 十一月 2015, pp 1211 - 1233

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DOI: <http://dx.doi.org/10.4208/cicp.260514.101214a> (About DOI), Published online: 23 十一月 2015

Abstract

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A Polynomial Chaos Method for Dispersive Electromagnetics

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Nathan L. Gibson

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Abstract

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High Order Numerical Simulation of Detonation Wave Propagation Through Complex Obstacles with the Inverse Lax-Wendroff Treatment

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Cheng Wang, Jianxu Ding, Sirui Tan and Wenhui Han

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A Numerical Scheme for Generalized Peierls-Nabarro Model of Dislocations Based on the Fast Multipole Method and Iterative Grid Redistribution

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Aiyu Zhu, Congming Jin, Degang Zhao, Yang Xiang and Jingfang Huang

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Shaoqiang Tang and Baiyili Liu

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Probabilistic High Order Numerical Schemes for Fully Nonlinear Parabolic PDEs

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