



ELSEVIER

Vol. 227, Issue 18, 10 September 2008

JOURNAL OF
COMPUTATIONAL
PHYSICS

CONTENTS

www.elsevier.com/locate/jcp

Abstracted/indexed in ACM Guide to Computing Literature, Chemical Abstracts, CompuMath Citation Index, Current Contents/ Physics / Chemistry & Earth Science, Excerpta Medica, Mathematical Reviews, Research Alert, Science Abstracts, Science Citation Index. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]

REGULAR PAPERS

- 8209 **A unified framework for the construction of one-step finite volume and discontinuous Galerkin schemes on unstructured meshes**
M. Dumbser, D.S. Balsara, E.F. Toro and C.-D. Munz
- 8254 **Local absorbing boundary conditions for elliptical shaped boundaries**
M. Medvinsky, E. Turkel and U. Hetmaniuk
- 8268 **Asymptotic and numerical analysis of an inviscid bounded vortex flow at low Mach number**
A. Cadiou, L. Le Penven and M. Buffat
- 8290 **Fast multipole methods on graphics processors**
N.A. Gumerov and R. Duraiswami
- 8314 **A study of differentiation errors in large-eddy simulations based on the EDQNM theory**
J. Berland, C. Bogeys and C. Bailly
- 8341 **Constructing spectral schemes of the immersed interface method via a global description of discontinuous functions**
A. Liang, X. Jing and X. Sun
- 8367 **Stability of asynchronous variational integrators**
W. Fong, E. Darve and A. Lew
- 8395 **An accurate conservative level set/ghost fluid method for simulating turbulent atomization**
O. Desjardins, V. Moureau and H. Pitsch
- 8417 **Comparisons of weakly compressible and truly incompressible algorithms for the SPH mesh free particle method**
E.-S. Lee, C. Moulinec, R. Xu, D. Violeau, D. Laurence and P. Stansby
- 8437 **Polymer geometry and Li^+ conduction in poly(ethylene oxide)**
L. Gitelman, M. Israeli, A. Averbuch, M. Nathan, Z. Schuss and D. Golodnitsky
- 8448 **A stabilized stochastic finite element second-order projection method for modeling natural convection in random porous media**
X. Ma and N. Zabaras
- 8472 **A mass conserving boundary condition for the lattice Boltzmann equation method**
J. Bao, P. Yuan and L. Schaefer



0021-9991(20080910)227:18;1-X

Available online at www.sciencedirect.com

 ScienceDirect