



ELSEVIER

Vol. 229, Issue 7, 1 April 2010

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®

SHORT NOTE

- 2425 **A Fourier-based elliptic solver for vortical flows with periodic and unbounded directions**
P. Chatelain and P. Koumoutsakos

REGULAR ARTICLES

- 2432 **A comparative study of interface reconstruction methods for multi-material ALE simulations**
M. Kucharik, R.V. Garimella, S.P. Schofield and M.J. Shashkov
- 2453 **Numerical simulation of static and sliding drop with contact angle hysteresis**
J.-B. Dupont and D. Legendre
- 2479 **On the accuracy of direct forcing immersed boundary methods with projection methods**
R.D. Guy and D.A. Hartenstine
- 2497 **Momentum transfer correction for macroscopic-gradient boundary conditions in lattice Boltzmann methods**
S. Izquierdo and N. Fueyo
- 2507 **Efficient discretization of Laplace boundary integral equations on polygonal domains**
J. Bremer and V. Rokhlin
- 2526 **An immersed boundary-thermal lattice Boltzmann method using an equilibrium internal energy density approach for the simulation of flows with heat transfer**
H.K. Jeong, H.S. Yoon, M.Y. Ha and M. Tsutahara
- 2544 **Kronecker product approximation of demagnetizing tensors for micromagnetics**
A.V. Goncharov, G. Hrkac, J.S. Dean and T. Schrefl
- 2550 **Symplectic wavelet collocation method for Hamiltonian wave equations**
H. Zhu, L. Tang, S. Song, Y. Tang and D. Wang
- 2573 **A novel coupled level set and volume of fluid method for sharp interface capturing on 3D tetrahedral grids**
X. Lv, Q. Zou, Y. Zhao and D. Reeve

Continued inside



0021-9991(20100401)229:7;1-X

Available online at www.sciencedirect.com

 ScienceDirect