



ELSEVIER

Vol. 228, Issue 15, 20 August 2009

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

- 5317 **An immersed boundary method for restricted diffusion with permeable interfaces**
H. Huang, K. Sugiyama and S. Takagi

REGULAR ARTICLES

- 5323 **Stable and efficient finite-difference nonlinear-multigrid schemes for the phase field crystal equation**
Z. Hu, S.M. Wise, C. Wang and J.S. Lowengrub
- 5340 **Enhancing parallel quasi-static particle-in-cell simulations with a pipelining algorithm**
B. Feng, C. Huang, V. Decyk, W.B. Mori, P. Muggli and T. Katsouleas
- 5349 **An evaluation of the FCT method for high-speed flows on structured overlapping grids**
J.W. Banks, W.D. Henshaw and J.N. Shadid
- 5370 **A mesh-dependent model for applying dynamic contact angles to VOF simulations**
S. Afkhami, S. Zaleski and M. Bussmann
- 5390 **Reconstruction of spectral function from effective permittivity of a composite material using rational function approximations**
D. Zhang and E. Cherkaev
- 5410 **Affordable, entropy-consistent Euler flux functions II: Entropy production at shocks**
F. Ismail and P.L. Roe
- 5437 **A general strategy for designing seamless multiscale methods**
W. E, W. Ren and E. Vanden-Eijnden
- 5454 **A generalized polynomial chaos based ensemble Kalman filter with high accuracy**
J. Li and D. Xiu
- 5470 **A numerical algorithm for viscous incompressible interfacial flows**
J. Wang and G. Baker

Continued inside



0021-9991(20090820)228:15;1-W

Available online at www.sciencedirect.com

 ScienceDirect