



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

- 6181 **Fast algorithms for spherical harmonic expansions, III**
M. Tygert

REGULAR ARTICLES

- 6193 **Finite element modeling of the deformation of magnetoelastic film**
M.I. Barham, D.A. White and D.J. Steigmann
- 6208 **Toward textbook multigrid efficiency for fully implicit resistive magnetohydrodynamics**
M.F. Adams, R. Samtaney and A. Brandt
- 6220 **A new formulation of Kapila's five-equation model for compressible two-fluid flow, and its numerical treatment**
J.J. Kreeft and B. Koren
- 6243 **A hybrid variational front tracking-level set mesh generator for problems exhibiting large deformations and topological changes**
R.H. Nochetto and S.W. Walker
- 6270 **On stable parametric finite element methods for the Stefan problem and the Mullins–Sekerka problem with applications to dendritic growth**
J.W. Barrett, H. Garcke and R. Nürnberg
- 6300 **A conservative immersed interface method for Large-Eddy Simulation of incompressible flows**
M. Meyer, A. Devesa, S. Hickel, X.Y. Hu and N.A. Adams
- 6318 **High order quadratures for the evaluation of interfacial velocities in axi-symmetric Stokes flows**
M. Nitsche, H.D. Ceniceros, A.L. Karniadakis and S. Naderi
- 6343 **A high order multivariate approximation scheme for scattered data sets**
Q. Wang, P. Moin and G. Iaccarino
- 6362 **Upwind-biased FORCE schemes with applications to free-surface shallow flows**
G. Stecca, A. Siviglia and E.F. Toro
- 6381 **Multigrid method and fourth-order compact difference discretization scheme with unequal meshsizes for 3D poisson equation**
Y. Ge
- 6392 **BCYCLIC: A parallel block tridiagonal matrix cyclic solver**
S.P. Hirshman, K.S. Perumalla, V.E. Lynch and R. Sanchez

Continued inside

0021-9991 (20100901)229:18;1-B

Available online at www.sciencedirect.com