



CONTENTS

VOLUME 67 ISSUE No. 12	30 December 2011
Obituary	1769
Announcement: C. Farhat	1770
A pressure correction method for fluid-particle interaction flow: Direct-forcing method and sedimentation flow: S.-Y. Lin, Y.-H. Chin, J.-J. Hu and Y.-C. Chen	1771
A Cartesian grid method for two-phase gel dynamics on an irregular domain: J. Du and A. L. Fogelson	1799
Combined effects of heat and chemical reactions on the peristaltic flow of Carreau fluid model in a diverging tube: N. S. Akbar and S. Nadeem	1818
Numerical simulation of compressible turbulent flow via improved gas-kinetic BGK scheme: S. Xiong, C. Zhong, C. Zhuo, K. Li, X. Chen and J. Cao	1833
A second-order time accurate finite element method for quasi-incompressible viscous flows: P. A. B. De Sampaio and M. A. Gonçalves Jr.	1848
A numerical scheme for Euler-Lagrange simulation of bubbly flows in complex systems: E. Shams, J. Finn and S. V. Apte	1865
A multidimensional HLL-Riemann solver for non-linear hyperbolic systems: G. Capdeville	1899
Numerical and analytical simulation of peristaltic flows of generalized Oldroyd-B fluids: D. Tripathi	1932
Influence of slip condition on the peristaltic transport in an asymmetric channel with heat transfer: An exact solution: T. Hayat, Q. Hussain, M. Umar Qureshi, N. Ali and A. A. Hendi	1944
Numerical simulation of the flow in straight blade agitator with the MPS method: Z. Sun, Y. Liang and G. Xi	1960
A high-order upwind control-volume method based on integrated RBFs for fluid-flow problems: N. Mai-Duy and T. Tran-Cong	1973
A multi-moment transport model on cubed-sphere grid: C. G. Chen, F. Xiao, X. L. Li and Y. Yang	1993

(contents continued overleaf)

Discover papers in this journal online,
ahead of the print issue, through EarlyView® at
wileyonlinelibrary.com/journal/nmf

indexed or abstracted by ASFA: Aquatic Sciences & Fisheries Abstracts (CSA/CIG), Cambridge Scientific Abstracts (CSA/CIG), Chemical Abstracts Service/SciFinder (ACS), COMPENDEX (Elsevier), CompuMath Citation Index® (Thomson ISI), CSA Technology Research Database (CSA/CIG), Current Contents®/Engineering, Computing & Technology (Thomson ISI), FLUIDEX/Fluid Abstracts (Elsevier), INSPEC (IET), International Aeronautical Abstracts & Database (CSA/CIG), International Civil Engineering Abstracts (Emerald), Journal Citation Reports/Science Edition (Thomson ISI), Mathematical Reviews/MethSciNet/Current Mathematical Publications (AMS), Meteorological & Geostrophysical Abstracts (CSA/CIG), PASCAL Database (INIST/CNRS), Science Citation Index Expanded™ (Thomson ISI), Science Citation Index® (Thomson ISI), SCOPUS (Elsevier), Shock & Vibration Digest (Sage), Walt of Science® (Thomson ISI), Zentralblatt MATH/Mathematics Abstracts (FIZ Karlsruhe).

(continued from previous page)

A Stokes model with cavitation for the numerical simulation of hydrodynamic lubrication: B. Nilsson and P. Hansbo	2015
Neighbour lists in smoothed particle hydrodynamics: J. M. Domínguez, A. J. C. Crespo, M. Gómez-Gesteira and J. C. Marongiu	2026
On flow of a fourth-grade fluid with heat transfer: T. Hayat, R. Naz and S. Abbasbandy	2043
The two-grid stabilization of equal-order finite elements for the Stokes equations: L. Song, Y. Hou and H. Zheng	2054
Simulation of two-phase flow with moving immersed boundaries: M. Holmval, S. B. Lindström and T. Uesaka	2062
Depth-integrated, non-hydrostatic model with grid nesting for tsunami generation, propagation, and run-up: Y. Yamazaki, K. F. Cheung and Z. Kowalik	2081
Wideband fast multipole boundary element method: Application to acoustic scattering from aerodynamic bodies: W. R. Wolf and S. K. Lele	2108
A study on the measurement of mean velocity and its convergence in molecular dynamics simulations: S. M. H. Karimian, S. Izadi and A. B. Farimani	2130
The laminar free-convection boundary-layer flow about a heated and rotating down-pointing vertical cone in the presence of a transverse magnetic field: S. Dinarvand	2141
A linearity-preserving cell-centered scheme for the heterogeneous and anisotropic diffusion equations on general meshes: Z. Gao and J. Wu	2157
SHORT COMMUNICATION	
Error and work estimates for high-order elements: R. Löhner	2184
Table of Contents, Volume 67	iii