1808 Modeling the interaction of biological cells with a solidifying interface
A. Chang, J.A. Dantzig, B.T. Darr and A. Hubel

Lévy flights, non-local search and simulated annealing
I. Pavlyukevich

Nyström method for elastic wave scattering by three-dimensional obstacles M.S. Tong and W.C. Chew

Consistent inflow and outflow boundary conditions for transported probability density function methods
D.W. Meyer and P. Jenny

A compressible magnetohydrodynamic numerical code with time-dependent boundary conditions in cylindrical geometry
M. Onofri, L. Primavera, F. Malara and P. Londrillo

On the numerical solution of the heat equation I: Fast solvers in free space J.-R. Li and L. Greengard

On the implicit large eddy simulations of homogeneous decaying turbulence
B. Thornber, A. Mosedale and D. Drikakis

A fractional step method for solving the compressible Navier-Stokes equations
K. Liu and R.H. Pletcher

High order numerical methods to a type of delta function integrals X. Wen

Multi-symplectic Runge-Kutta-Nyström methods for nonlinear Schrödinger equations with variable coefficients
J. Hong, X.-y. Liu and C. Li

Efficient implementation of THINC scheme: A simple and practical smoothed VOF algorithm K. Yokoi

A three-dimensional multidimensional gas-kinetic scheme for the Navier-Stokes equations under gravitational fields
C.T. Tian, K. Xu, K.L. Chan and L.C. Deng

A LBM-DLM/FD method for 3D fluid-structure interactions
X. Shi and S.P. Lim

Octant flux splitting information preservation DSMC method for thermally driven flows N.D. Masters and W. Ye

Convergence stability and estimator in orbital free electronic structure calculation on a grid at finite temperature
S. Le Roux and G. Zérah

Diffuse interface model for incompressible two-phase flows with large density ratios
H. Ding, P.D.M. Spelt and C. Shu

Multi-material interface reconstruction on generalized polyhedral meshes H.T. Ahn and M. Shashkov

Test particle method for incorporation of the kinetic effects into the envelope simulations of Raman backscattering
M.S. Hur and H. Suk

A high-order implicit finite element method for integrating the two-fluid magnetohydrodynamic equations in two dimensions
S.C. Jardin, J. Breslau and N. Ferraro

An analysis of polynomial chaos approximations for modeling single-fluid-phase flow in porous medium systems
C.P. Rupert and C.T. Miller

## Continued from preceeding page

2206 Simulation of flexible filaments in a uniform flow by the immersed boundary method W.-X. Huang, S.J. Shin and H.J. Sung

2229 An arbitrary Lagrangian-Eulerian method for simulating bubble growth in polymer foaming P. Yue, J.J. Feng, C.A. Bertelo and H.H. Hu

2250 Efficient level set methods for constructing wavefronts in three spatial dimensions L.-T. Cheng

2271 Computing traveltime and amplitude sensitivity kernels in finite-frequency tomography Y. Tian, R. Montelli, G. Nolet and F.A. Dahlen

2289 Time-dependent simplified $\boldsymbol{P}_{\boldsymbol{N}}$ approximation to the equations of radiative transfer M. Frank, A. Klar, E.W. Larsen and S. Yasuda

2306 Finite element and higher order difference formulations for modelling heat transport in magnetised plasmas
S. Günter, K. Lackner and C. Tichmann

2317 Globalization strategies for Newton-Krylov methods for stabilized FEM discretization of NavierStokes equations
S. Bellavia and S. Berrone

2341 A low-variance deviational simulation Monte Carlo for the Boltzmann equation T.M.M. Homolle and N.G. Hadjiconstantinou

2359 Fast spin $\pm 2$ spherical harmonics transforms and application in cosmology Y. Wiaux, L. Jacques and P. Vandergheynst

Optimized three-dimensional FDTD discretizations of Maxwell's equations on Cartesian grids T.T. Zygiridis and T.D. Tsiboukis

## LETTER TO THE EDITOR

2389 On the validity of "A proof that the discrete singular convolution (DSC)/Lagrange-distributed approximation function (LDAF) method is inferior to high order finite differences" G.W. Wei and S. Zhao

