

*Continued from outside back cover*

- 1388 **A semi-Lagrangian scheme for the curve shortening flow in codimension-2**  
E. Carlini, M. Falcone, and R. Ferretti
- 1409 **A three-dimensional finite volume method based on radial basis functions for the accurate computational modelling of nonlinear diffusion equations**  
T.J. Moroney and I.W. Turner
- 1427 **A simple and accurate Riemann solver for isothermal MHD**  
A. Mignone
- 1442 **Stretching-based diagnostics and reduction of chemical kinetic models with diffusion**  
A. Adrover, F. Creta, M. Giona, and M. Valorani
- 1472 **An improved SPH method: Towards higher order convergence**  
G. Oger, M. Doring, B. Alessandrini, and P. Ferrant
- 1493 **Conformal FDTD-methods to avoid time step reduction with and without cell enlargement**  
Igor Zagorodnov, Rolf Schuhmann, and Thomas Weiland
- 1508 **Outflow boundary conditions for the Fourier transformed three-dimensional Vlasov–Maxwell system**  
B. Eliasson
- 1533 **Finite difference/spectral approximations for the time-fractional diffusion equation**  
Yumin Lin and Chuanju Xu
- 1553 **Controllability method for the Helmholtz equation with higher-order discretizations**  
Erkki Heikkola, Sanna Mönkölä, Anssi Pennanen, and Tuomo Rossi
- 1577 **Adaptive absorbing boundary conditions for Schrödinger-type equations: Application to nonlinear and multi-dimensional problems**  
Zhenli Xu, Houde Han, and Xiaonan Wu
- 1590 **A new consistent splitting scheme for incompressible Navier–Stokes flows: A least-squares spectral element implementation**  
J.P. Pontaza
- 1603 **Mathematical modeling and simulation of aquatic and aerial animal locomotion**  
T.Y. Hou, V.G. Stredie, and T.Y. Wu
- 1632 **The streamline subgrid integration method: I. Quasi-monotonic second-order transport schemes**  
Kao-San Yeh
- 1653 **A triangular cut-cell adaptive method for high-order discretizations of the compressible Navier–Stokes equations**  
Krzysztof J. Fidkowski and David L. Darmofal
- 1673 **Condensed history Monte Carlo methods for photon transport problems**  
Katherine Bhan and Jerome Spanier
- 1695 **Methods for coupling radiation, ion, and electron energies in grey Implicit Monte Carlo**  
T.M. Evans and J.D. Densmore
- 1721 **An efficient direct parallel spectral-element solver for separable elliptic problems**  
Yuen-Yick Kwan and Jie Shen
- 1736 **A method for obtaining three-dimensional computational equilibrium of non-neutral plasmas using WARP**  
K. Gomberoff, J. Wurtele, A. Friedman, D.P. Grote, and J.-L. Vay
- 1753 **Application of implicit–explicit high order Runge–Kutta methods to discontinuous-Galerkin schemes**  
Alex Kanevsky, Mark H. Carpenter, David Gottlieb, and Jan S. Hesthaven
- 1782 **A numerical method for solving the 3D unsteady incompressible Navier–Stokes equations in curvilinear domains with complex immersed boundaries**  
Liang Ge and Fotis Sotiropoulos

*Contents continued on inside page*