



ELSEVIER

Vol. 227, Issue 2, 10 December 2007

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 NOTES

- 871 **How to normalize Maxwell–Boltzmann electrons in transient plasma models**
G.J.M. Hagelaar
- 877 **On the connection between the spectral volume and the spectral difference method**
K. Van den Abeele, C. Lacor and Z.J. Wang

REGULAR ARTICLES

- 886 **A Fourier method for the fractional diffusion equation describing sub-diffusion**
C.-M. Chen, F. Liu, I. Turner and V. Anh
- 898 **An asynchronous scheme with local time stepping for multi-scale transport problems: Application to gas discharges**
T. Unfer, J.-P. Boeuf, F. Rogier and F. Thivet
- 919 **Fourier spectral and wavelet solvers for the incompressible Navier–Stokes equations with volume-penalization: Convergence of a dipole–wall collision**
G.H. Keetels, U. D’Ortona, W. Kramer, H.J.H. Clercx, K. Schneider and G.J.F. van Heijst
- 946 **A Brinkman penalization method for compressible flows in complex geometries**
Q. Liu and O.V. Vasilyev
- 967 **High-order kinetic flux vector splitting schemes in general coordinates for ideal quantum gas dynamics**
J.-Y. Yang, T.-Y. Hsieh, Y.-H. Shi and K. Xu
- 983 **A posteriori error estimation and basis adaptivity for reduced-basis approximation of nonaffine-parametrized linear elliptic partial differential equations**
N.C. Nguyen

Continued inside



0021-9991(20071210)227:2;1-X

Available online at www.sciencedirect.com

 ScienceDirect