

Communications in Computational Physics

Computational Modeling • Multi-Physics • Multi-Scale • Numerical Methods

CiCP is recently included in the SCI list

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Research areas include:

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- Numerical methods and their efficient implementations of deterministic and stochastic representations of physical science problems.
- Modeling of physical process for engineering and science applications.
- Theoretical and complexity study of numerical algorithms.

Some Recently Posted Articles

J. Tromp, D. Komatitsch and Q. Liu
Spectral-element and adjoint methods in seismology

A. C. H. Cheng and J. O. Blanch
Numerical modeling of elastic wave propagation in a fluid-filled borehole

T. Saito, H. Sato and T. Takahashi
Direct simulation methods for scalar-wave envelopes in two-dimensional layered random media based on the small-angle scattering approximation

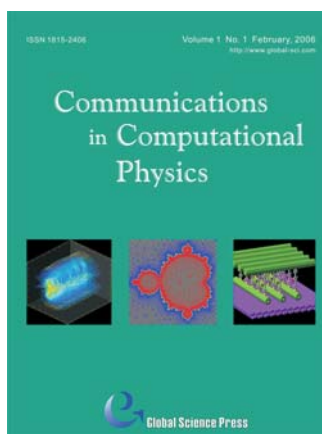
Weinan E, B. Engquist, X. Li, W. Ren, E. Vanden-Eijnden
Heterogeneous multiscale methods: A review

M. F. Adams and Y. Nishimura
Parallel algebraic multigrid methods in gyrokinetic turbulence simulations

B. Sjogreen and N. A. Petersson
A Cartesian embedded boundary method for hyperbolic conservation laws

H. Liu, S. Osher and R. Tsai
Multi-valued solution and level set methods in computational high frequency wave propagation

T. Qian, X.-P. Wang and P. Sheng
Molecular hydrodynamics of the moving contact line in two-phase immiscible flows



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