

The Lattice Boltzmann Equation For Fluid Dynamics And Beyond (Numerical Mathematics And Scientific Computation)

By Sauro Succi



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Sauro Succi (2013) The Lattice Boltzmann Equation: For Fluid Dynamics and Beyond (Numerical Mathematics and Scientific Computation); Oxford University Press; 019967924X

<http://www.researchbooks.org/9814508292/LATTICE-BOLTZMANN-METHOD-APPLICATIONS-ENGINEERING/>

An Introduction to the Boltzmann Equation and Transport Processes in Gases (Interaction of Mechanics and Mathematics) Gilberto M. Kremer

<http://bookzz.org/g/Boltzmann%20L.>

International Journal for Numerical Methods in Fluids > Vol 39 Issue 4 > Abstract; Virtual Issue: Numerical Analysis of Fluid Flows 2013; Virtual Issue:

<http://onlinelibrary.wiley.com/doi/10.1002/fld.337/citedby>

The lattice Boltzmann method is a powerful technique for the computational modeling of a wide variety of complex fluid flow problems including single and

<http://math.nist.gov/mcsd/savg/parallel/lb/>

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In this article we analyze the lattice Boltzmann equation (LBE) by using the asymptotic expansion technique. We first relate the LBE to the finite discrete-velo
<http://www.sciencedirect.com/science/article/pii/S0021999105002573>

The lattice Boltzmann equation (LBE) is a microscopically-inspired method designed to solve macroscopic fluid dynamics problems. As a such, it lives at the interface
<http://academic.research.microsoft.com/Keyword/22275/lattice-boltzmann-equation>

The lattice Boltzmann equation for fluid dynamics and beyond. [S Succi] mathematics and scientific computation. lattice Boltzmann equation for fluid dynamics
<http://www.worldcat.org/title/lattice-boltzmann-equation-for-fluid-dynamics-and-beyond/oclc/47140989>

Lattice Boltzmann methods (LBM) (or Thermal Lattice Boltzmann methods (TLBM)) is a class of computational fluid dynamics (CFD) methods for fluid simulation.
http://en.wikipedia.org/wiki/Lattice_Boltzmann_methods

Lattice Boltzmann Methods for Multiscale Fluid Problems The lattice Boltzmann equation for fluid dynamics and beyond , Sauro Succi (2)
http://link.springer.com/chapter/10.1007/978-1-4020-3286-8_129

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<https://www.frias.uni-freiburg.de/de/das-institut/archiv-frias/school-of-softmatter/fellows/succi>

Boltzmann machine; Boltzmann equation; Lattice Boltzmann methods, used in computational fluid dynamics; Ludwig Boltzmann Gesellschaft; Boltzmann Medal; Boltzmann (crater)

<http://en.wikipedia.org/wiki/Boltzmann>

The basic elements of the theory of the lattice Boltzmann equation, a special lattice gas kinetic model for hydrodynamics, are reviewed. Applications are also p

<http://www.sciencedirect.com/science/article/pii/037015739290090M>