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Lattice Boltzmann modeling
(Lecture 46 - 2018-11-14)

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Luo - Multiphase Lattice

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Lecture 7: Discrete-velocity
set for lattice Boltzmann
equation **Finite Element**

Method (FEM) – Finite

**Element Analysis (FEA): Easy
Explanation How to install**

OpenLB (open source lattice

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Boltzmann code) on Windows

10 *Implementing the CFD*

Basics - 03 - Part 1 -

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simulations Lattice

Boltzmann \u0026amp; Grid

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Boltzmann Equation:~~

~~Diffusion Laws Lattice~~

~~Boltzmann Method for fluid
simulations implementation~~

Introducing the First LBM

Flow Solver on SimScale (GPU-

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Near-equilibrium Transport

Lecture 7: Boltzmann

Transport Equation

Introduction to Lattice

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Lattice-Boltzmann methods

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Equation For

In recent years, certain
forms of the Boltzmann

equation--now going by the

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name of "Lattice Boltzmann
equation" (LBE) -- have
emerged which relinquish
most mathematical
complexities of the true
Boltzmann equation without
sacrificing physical
fidelity in the description

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of complex fluid motion.

Beyond Numerical

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Speeds in lattice Boltzmann
simulations are typically

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given in terms of the speed of sound. The discrete time unit can therefore be given as:

$$\Delta t = \frac{\Delta x}{C_s}$$

denominator. C_s .

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$\{ \displaystyle C_s \}$ is
the physical speed of sound.

Mathematics And Scientific

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Wikipedia

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Equation for Fluid Dynamics

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The Lattice Boltzmann
Equation: For Complex States
of ...

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The Boltzmann equation or Boltzmann transport equation (BTE) describes the statistical behaviour of a thermodynamic system not in a state of equilibrium, devised by Ludwig Boltzmann in 1872. The classic example

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of such a system is a fluid with temperature gradients in space causing heat to flow from hotter regions to colder ones, by the random but biased transport of the particles making up ...

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Boltzmann equation -

Wikipedia

The Lattice Boltzmann method
is relatively new. The

Method of lattice Boltzmann
equation (LBE) is an

innovative numerical method

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based on kinetic theory to simulate various hydrodynamic systems. The lattice Boltzmann equation was introduced by Succi to overcome some serious deficiencies of its historic predecessor: the lattice gas automata.

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Computation) Sauro Succi.

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Boltzmann Methods: Theory

and Application Haibo Huang.

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And ...

Abstract. A simple lattice
Boltzmann equation (LBE)
model for axisymmetric
thermal flow is proposed in

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this paper. The flow field is solved by a quasi-two-dimensional nine-speed (D2Q9) LBE, while the temperature field is solved by another four-speed (D2Q4) LBE. The model is validated by a thermal flow in a pipe

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and some nontrivial thermal buoyancy-driven flows in vertical cylinders, including Rayleigh-Bénard convection, natural convection, and heat transfer of swirling flows.

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for axisymmetric thermal
flows ...

This work combines the
lattice Boltzmann equation
(LBE) and the overset method
to simulate moving boundary

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problems in Navier-Stokes
flows in two dimensions
(2D). The transformation of
the velocity moments of the
distribution functions
between a moving frame of
reference and the one at
rest is analyzed.

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Lattice Boltzmann equation
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This paper proposes an
optimal two-relaxation-time
(OTRT) lattice Boltzmann

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equation (LBE) for solid-liquid phase change. By using the Chapman-Enskog expansion, the OTRT LBE can recover the enthalpy-based energy governing equation up to second-order accuracy.

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An optimal two-relaxation-
time lattice Boltzmann
equation ...

We define the lattice
Boltzmann equation in three
dimensions as: (1) $f_i^{j,k}$
 $(x + i c_x \Delta t) (y + j c_y \Delta t)$

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$$(z + k_x c_x \tau) (t + \tau) = f_{i,j,k,x,y,z,t} + \tau \left(\frac{\partial f_{i,j,k,x,y,z,t}}{\partial t} + c_x \frac{\partial f_{i,j,k,x,y,z,t}}{\partial x} + c_y \frac{\partial f_{i,j,k,x,y,z,t}}{\partial y} + c_z \frac{\partial f_{i,j,k,x,y,z,t}}{\partial z} \right)$$

Here i , j , and k refer to the variables in momentum space with c being the velocity quantum and i , j , k , x , y , and z

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are the fluid variables in space
and t is the time variable.

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The cumulant lattice
Boltzmann equation in three

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It is shown that the lattice

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Boltzmann equation is a special discretized form of the Boltzmann equation.

Various approximations for the discretization of the Boltzmann equation in both time and phase space are discussed in detail. A

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For Fluid Dynamics to Derive
the lattice Boltzmann model
from the continuous
Boltzmann equation is
demonstrated explicitly.

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Theory of the lattice

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Boltzmann method: From the
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The lattice Boltzmann
equation (LBE) is directly
derived from the Boltzmann
equation by discretization
in both time and phase
space. A procedure to

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systematically derive
discrete velocity models is
presented. A LBE algorithm
with arbitrary mesh grids is
proposed and a numerical
simulation of the backward-
facing step is conducted.

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2 Reviews In recent years,

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"Lattice Boltzmann equation"

(LBE), have emerged, which
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The Lattice Boltzmann

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Description. In recent

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years, certain forms of the Boltzmann equation--now going by the name of

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Boltzmann equation without

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sacrificing physical
fidelity in the description
of complex fluid motion.

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In this paper, the lattice Boltzmann equation is directly derived from the Boltzmann equation. It is shown that the lattice Boltzmann equation is a special discretized form of the Boltzmann...

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PDF Theory of the lattice
Boltzmann method: From the

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The Lattice Boltzmann
equation: mathematical
formulation. The lattice

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Boltzmann equation reads as follows (Wolf-Gladrow, 2000;

$$\begin{aligned} & f_i(\vec{r} + \vec{c}_i) - f_i(\vec{r}) \\ &= -\Delta t \left(\sum_j \Omega_{ij} (f_j(\vec{r}; t) - f_i(\vec{r}; t)) \right) \end{aligned}$$

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Lattice Boltzmann Method -
Scholarpedia

As a type of numerical
method for fluid flows, the
lattice Boltzmann equation
(LBE) method has gained much

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(PDF) Evaluation of outflow
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Over the past near three decades, the Lattice Boltzmann method has gained a prominent role as an efficient computational method for the numerical simulation of a wide variety

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of complex dynamics of flowing matter across a broad range of scales, from fully developed turbulence, to multiphase micro-flows, all the way down to nano-biofluidics and lately, even quantum-relativistic

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Lattice Boltzmann Method
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For the LBM method, we separate the solution of the equation $f_i(x + e_i \Delta t, t + \Delta t) = f_i(x, t) + \Delta t S_i(t)$ into two steps, referred to as streaming and collision steps. This approach is somewhat analogous to the common

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splitting mechanism used in
solutions to the Navier-
Stokes equations.
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