



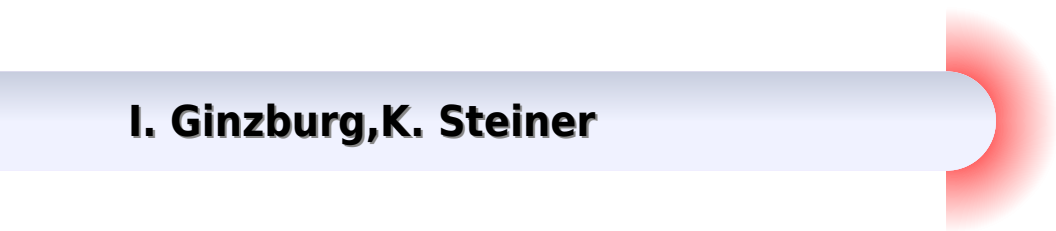
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Lattice Boltzmann model for scroll wave in Ginzburg- Landau equation

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Lattice Boltzmann Model For Scroll Wave In Ginzburg Landau Equation

I. Ginzburg, K. Steiner



Lattice Boltzmann Model For Scroll Wave In Ginzburg Landau Equation:

Lattice Boltzmann Model for Scroll Wave in Ginzburg-Landau Equation Jianying Zhang, Guangwu Yan, 2014-09-04 The complex lattice Boltzmann model is proposed to simulate the scroll wave in three dimensional Ginzburg Landau equation The method maintains the algorithmic simplicity of the original lattice Boltzmann scheme and does not require an interpolation or coarse graining procedure We can see the details of the process of the scroll waves formed in three dimensional space we can see that the quantum vortex in three dimension is still linear we can see a variety of graceful movement patterns of the vortex filaments and their future destiny which imply the results of the existing law on the vortex filaments predicted we can also see that the accuracy of the simulation results can be compared with classical method We inherited and developed our previous results on spiral waves in this book and provided an alternative tool for simulating three dimensional complex partial differential equation

Multiphase Lattice Boltzmann Methods Haibo Huang, Michael Sukop, Xiyun Lu, 2015-06-08 Theory and Application of Multiphase Lattice Boltzmann Methods presents a comprehensive review of all popular multiphase Lattice Boltzmann Methods developed thus far and is aimed at researchers and practitioners within relevant Earth Science disciplines as well as Petroleum Chemical Mechanical and Geological Engineering Clearly structured throughout this book will be an invaluable reference on the current state of all popular multiphase Lattice Boltzmann Methods LBMs The advantages and disadvantages of each model are presented in an accessible manner to enable the reader to choose the model most suitable for the problems they are interested in The book is targeted at graduate students and researchers who plan to investigate multiphase flows using LBMs Throughout the text most of the popular multiphase LBMs are analyzed both theoretically and through numerical simulation The authors present many of the mathematical derivations of the models in greater detail than is currently found in the existing literature The approach to understanding and classifying the various models is principally based on simulation compared against analytical and observational results and discovery of undesirable terms in the derived macroscopic equations and sometimes their correction A repository of FORTRAN codes for multiphase LBM models is also provided

Lattice Boltzmann Equation On a 2D Rectangular Grid M'Hamed Bouzidi, 2002 We construct a multi relaxation lattice Boltzmann model on a two dimensional rectangular grid The model is partly inspired by a previous work of Koelman to construct a lattice BGK model on a two dimensional rectangular grid The linearized dispersion equation is analyzed to obtain the constraints on the isotropy of the transport coefficients and Galilean invariance for various wave propagations in the model The linear stability of the model is also studied The model is numerically tested for three cases a a vortex moving with a constant velocity on a mesh periodic boundary conditions b Poiseuille flow with an arbitrary inclined angle with respect to the lattice orientation and c a cylinder asymmetrically placed in a channel The numerical results of these tests are compared with either analytic solutions or the results obtained by other methods Satisfactory results are obtained for the numerical simulations

Theory of the Lattice Boltzmann Method: Dispersion, Dissipation,

Isotropy, Galilean Invariance, and Stability National Aeronautics and Space Administration (NASA), 2018-09-17 The generalized hydrodynamics the wave vector dependence of the transport coefficients of a generalized lattice Boltzmann equation LBE is studied in detail The generalized lattice Boltzmann equation is constructed in moment space rather than in discrete velocity space The generalized hydrodynamics of the model is obtained by solving the dispersion equation of the linearized LBE either analytically by using perturbation technique or numerically The proposed LBE model has a maximum number of adjustable parameters for the given set of discrete velocities Generalized hydrodynamics characterizes dispersion dissipation hyper viscosities anisotropy and lack of Galilean invariance of the model and can be applied to select the values of the adjustable parameters which optimize the properties of the model The proposed generalized hydrodynamic analysis also provides some insights into stability and proper initial conditions for LBE simulations The stability properties of some 2D LBE models are analyzed and compared with each other in the parameter space of the mean streaming velocity and the viscous relaxation time The procedure described in this work can be applied to analyze other LBE models As examples LBE models with various interpolation schemes are analyzed Numerical results on shear flow with an initially discontinuous velocity profile shock with or without a constant streaming velocity are shown to demonstrate the dispersion effects in the LBE model the results compare favorably with our theoretical analysis We also show that whereas linear analysis of the LBE evolution operator is equivalent to Chapman Enskog analysis in the long wave length limit wave vector $k \rightarrow 0$ it can also provide results for large values of k Such results are important for the stability and other hydrodynamic properties of the LBE method and cannot be obtained through Chapman Enskog analysis Lallemand Pierre and Luo Li Shi Langley Research Center BOLTZMANN TRANSPORT EQ *Development of a Lattice Boltzmann Model to Investigate the Interaction Mechanism of Surface Acoustic Wave on a Sessile Droplet* Stephen Burrell Burnside, 2022 *Lattice-Gas Cellular Automata and Lattice Boltzmann Models* Dieter A. Wolf-Gladrow, 2004-10-19 Lattice gas cellular automata LGCA and lattice Boltzmann models LBM are relatively new and promising methods for the numerical solution of nonlinear partial differential equations The book provides an introduction for graduate students and researchers Working knowledge of calculus is required and experience in PDEs and fluid dynamics is recommended Some peculiarities of cellular automata are outlined in Chapter 2 The properties of various LGCA and special coding techniques are discussed in Chapter 3 Concepts from statistical mechanics Chapter 4 provide the necessary theoretical background for LGCA and LBM The properties of lattice Boltzmann models and a method for their construction are presented in Chapter 5 **Lattice Boltzmann Equation on a 2D Rectangular Grid** National Aeronautics and Space Administration (NASA), 2018-06-20 We construct a multi relaxation lattice Boltzmann model on a two dimensional rectangular grid The model is partly inspired by a previous work of Koelman to construct a lattice BGK model on a two dimensional rectangular grid The linearized dispersion equation is analyzed to obtain the constraints on the isotropy of the transport coefficients and Galilean invariance for various wave propagations in the model The linear stability of the model

is also studied The model is numerically tested for three cases a a vortex moving with a constant velocity on a mesh periodic boundary conditions b Poiseuille flow with an arbitrary inclined angle with respect to the lattice orientation and c a cylinder symmetrically placed in a channel The numerical results of these tests are compared with either analytic solutions or the results obtained by other methods Satisfactory results are obtained for the numerical simulations Bouzidi M Hamed and D Humieres Dominique and Lallemand Pierre and Luo Li Shi and Bushnell Dennis M Technical Monitor Langley Research Center NASA CR 2002 211658 NAS 1 26 211658 ICASE 2002 18 *Analysis of Lattice-Boltzmann Methods* Martin Rheinländer, 2007-08-20 Doctoral Thesis Dissertation from the year 2007 in the subject Mathematics Analysis University of Constance Fachbereich Mathematik Statistik language English abstract Lattice Boltzmann algorithms represent a quite novel class of numerical schemes which are used to solve evolutionary partial differential equations PDEs In contrast to other methods FEM FVM lattice Boltzmann methods rely on a mesoscopic approach The idea consists in setting up an artificial grid based particle dynamics which is chosen such that appropriate averages provide approximate solutions of a certain PDE typically in the area of fluid dynamics As lattice Boltzmann schemes are closely related to finite velocity Boltzmann equations being singularly perturbed by special scalings their consistency is not obvious This work is concerned with the analysis of lattice Boltzmann methods also focusing certain numeric phenomena like initial layers multiple time scales and boundary layers As major analytic tool regular Hilbert expansions are employed to establish consistency Exemplarily two and three population algorithms are studied in one space dimension mostly discretizing the advection diffusion equation It is shown how these model schemes can be derived from two dimensional schemes in the case of special symmetries The analysis of the schemes is preceded by an examination of the singular limit being characteristic of the corresponding scaled finite velocity Boltzmann equations Convergence proofs are obtained using a Fourier series approach and alternatively a general regular expansion combined with an energy estimate The appearance of initial layers is investigated by multiscale and irregular expansions Among others a hierarchy of equations is found which gives insight into the internal coupling of the initial layer and the regular part of the solution Next the consistency of the model algorithms is considered followed by a discussion of stability Apart from proving stability for several cases entailing convergence as byproduct the spectrum of the evolution operator is examined Based on this it is shown that the CFL condition is necessary and sufficient for stability in the case of a two population algorithm discretizing the advection equation Furthermore the presentation touches upon the question whether reliable stability statements can be obtained by rather formal arguments To gather experience and prepare future work numeric boundary layers are analyzed in the context of a finite difference discretization for the one dimensional Poisson equation **Lattice Boltzmann Method for Wave Run-up** Siti Habibah Shafiai, 2014-05-21 This is a book of computational fluid dynamic that using the lattice Boltzmann method for simulating moving shoreline or wave run up phenomenon Here the lattice Boltzmann method is modeled by incorporating thin film and linear extrapolation techniques

The model is developed for one and two dimensional problems At the end of this book the model demonstrates the lattice Boltzmann method is capable of handling properly complex free surface flow phenomena *Simplified And Highly Stable Lattice Boltzmann Method: Theory And Applications* Zhen Chen,Chang Shu,2020-09-15 This unique professional volume is about the recent advances in the lattice Boltzmann method LBM It introduces a new methodology namely the simplified and highly stable lattice Boltzmann method SHSLBM for constructing numerical schemes within the lattice Boltzmann framework Through rigorous mathematical derivations and abundant numerical validations the SHSLBM is found to outperform the conventional LBM in terms of memory cost boundary treatment and numerical stability This must have title provides every necessary detail of the SHSLBM and sample codes for implementation It is a useful handbook for scholars researchers professionals and students who are keen to learn employ and further develop this novel numerical method

Multiple-Relaxation-Time Lattice Boltzmann Models in 3D Dominique dHumieres,2002 **Theory of the Lattice**

Boltzmann Method: Lattice Boltzmann Models for Non-ideal Gases Li-Shi Luo,2001 In this paper a procedure for systematic a priori derivation of the lattice Boltzmann models for non ideal gases from the Enskog equation the modified Boltzmann equation for dense gases is presented This treatment provides a unified theory of lattice Boltzmann models for non ideal gases The lattice Boltzmann equation is systematically obtained by discretizing the Enskog equation in phase space and time The lattice Boltzmann model derived in this paper is thermodynamically consistent up to the order of discretization error Existing lattice Boltzmann models for non ideal gases are analyzed and compared in detail Evaluation of these models are made in light of the general procedure to construct the lattice Boltzmann model for non ideal gases presented in this work **Lattice Boltzmann Model for Free-Surface Flow and Its Application to Filling Process in Casting I.**

Ginzburg,K. Steiner,2002 *A Lattice Boltzmann Model* R. D. Kingdon,P. Schofield,L. White,1991 **Lattice Boltzmann Methods in Interfacial Wave Modelling** James Maxwell Buick,1997 **Lattice Boltzmann Methods in Interfacial Wave Modelling** James Maxwell Buick,1997 **The Lattice Boltzmann Equation** R. Benzi,Sauro Succi,M.

Vergassola,1992 Free Surface Lattice-Boltzmann Method To Model The Filling Of Expanding Cavities By Bingham Fluids I. Ginzburg,K. Steiner,2001

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