

Dieter A. Wolf-Gladrow

Lattice-Gas Cellular Automata and Lattice Boltzmann Models

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An Introduction



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Raj P. Chhabra



Latticegas Cellular Automata And Lattice Boltzmann Models An Introduction:

Lattice-Gas Cellular Automata and Lattice Boltzmann Models Dieter A. Wolf-Gladrow, 2000-02-18 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-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-Gas Cellular Automata* Daniel H. Rothman, Stiphane Zaleski, 2004-12-23 The text is a self contained comprehensive introduction to the theory of hydrodynamic lattice gases Lattice gas cellular automata are discrete models of fluids Identical particles hop from site to site on a regular lattice obeying simple conservative scattering rules when they collide Remarkably at a scale larger than the lattice spacing these discrete models simulate the Navier Stokes equations of fluid mechanics This book addresses three important aspects of lattice gases First it shows how such simple idealised microscopic dynamics give rise to isotropic macroscopic hydrodynamics Second it details how the simplicity of the lattice gas provides for equally simple models of fluid phase separation hydrodynamic interfaces and multiphase flow Lastly it illustrates how lattice gas models and related lattice Boltzmann methods have been used to solve problems in applications as diverse as flow through porous media phase separation and interface dynamics Many exercises and references are included **Microfluidics and Nanofluidics Handbook, 2 Volume Set** Sushanta K. Mitra, Suman Chakraborty, 2011-09-20 A comprehensive two volume handbook on Microfluidics and Nanofluidics this text covers fundamental aspects fabrication techniques introductory materials on microbiology and chemistry measurement techniques and applications with special emphasis on the energy sector Each chapter begins with introductory coverage to a subject and then narrows in on advanced techniques and concepts thus making it valuable to students and practitioners The author pays special attention to applications of microfluidics in the energy sector and provides insight into the world of opportunities nanotechnology has to offer Figures tables and equations

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Cellular Automata Bastien Chopard, Stefania Bandini, Alberto Dennunzio, Mira Arabi Haddad, 2022-08-12 This book constitutes the refereed proceedings of the 15th International Conference on Cellular Automata for Research and Industry ACRI 2022 which took place in Geneva Switzerland in September 2022 The 31 full papers presented in this volume were carefully reviewed and selected from 36 submissions They were organized in topical sections named Theory Modelling and simulation physical systems and phenomena Cellular automata and spreading dynamics Crowds pedestrian and traffic dynamics Other studies on cellular automata

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