



Lattice-Gas Cellular Automata and Lattice Boltzmann Models : An Introduction

By Dieter A. Wolf-Gladrow

Springer-Verlag GmbH Feb 2000, 2000. Taschenbuch. Condition: Neu. Neuware - 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. 314 pp. Englisch.



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