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Autore	Tileston Donna Walker
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""Cover""; ""Contents""; ""Preface""; ""Acknowledgments""; ""About the Author""; ""Chapter 1 - Whose Standards?""; ""The History behind School Standards""; ""No Child Left Behind""; ""How to Access the Standards for Your Childa€s School""; ""National Standards""; ""Chapter 2 - Why Standards are Important to Education""; ""How Standards Help Produce the Alignment That Leads to Equity""; ""Alignment in the Classroom""; ""Standards as a Measuring Rod for Schools""; ""Why Adequate Yearly Progress Matters""; ""What to Do if Adequate Yearly Progress is Not Being Achieved""</p> <p>""Why Alignment is Important""""The Reality of Alignment""; ""Five Things Parents can Do""; ""Chapter 3 - Standards and Alignment""; ""The Format of Standards and Benchmarks""; ""How Standards are Used as a Guide for What Teachers Teach""; ""Why the Instructional Practice is Important to Student Success""; ""How Standards are Used as a Guide for What Teachers Assess""; ""What Does the Research Say is the Best Way to Teach Vocabulary?""; ""What Processes Will Students Need to Know?""; ""Chapter 4 - Asking the Right Questions""</p> <p>""What are the Standards and Benchmarks for My Statea€s Schools?""""</p>

How Do I Know That My Child's School is Teaching to the State Standards?"; "What Do I Need to Know about the High Stakes Test Given in My State?"; "What Information Do I Need at the Local School Level?"; "What Other Information is Important to Examine on the School's State Report Card?"; "How can I be Sure That My Child's School Keeps Current with Quality Research on Learning?"; "What Questions Should I Ask When Adequate Yearly Progress is Not Being Achieved?"; "What can We Do to Improve the Education System?"; "Where can I Go for More Information?"; "What if?"; "Chapter 5 - Helping Your Child Master High Stakes Tests"; "Know the Vocabulary"; "Practice Compare and Contrast"; "Pay Attention to Your Child's Stress Levels"; "Glossary"; "References"; "Index"

## Sommario/riassunto

Help parents understand educational standards, mandated tests, No Child Left Behind, and other issues affecting their children's schools with this reader-friendly guide.

## 2. Record Nr.

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## Autore

Guo Zhaoli

## Titolo

Lattice Boltzmann method [[electronic resource] ] : and its applications in engineering / / Zhaoli Guo, Chang Shu

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981-4508-30-6

## Descrizione fisica

1 online resource (420 p.)

## Collana

Advances in computational fluid dynamics ; ; vol. 3

## Disciplina

530.138

## Soggetti

Lattice dynamics  
Lattice field theory  
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## Nota di contenuto

Dedication; Preface; Contents; Chapter 1 Introduction; 1.1 Description of Fluid System at Different Scales; 1.1.1 Microscopic description: molecular dynamics; 1.1.2 Mesoscopic description: kinetic theory; 1.1.3 Macroscopic description: hydrodynamic equations; 1.2 Numerical

Methods for Fluid Flows; 1.3 History of LBE; 1.3.1 Lattice gas automata; 1.3.2 From LGA to LBE; 1.3.3 From continuous Boltzmann equation to LBE; 1.4 Basic Models of LBE; 1.4.1 LBGK models; 1.4.2 From LBE to the Navier-Stokes equations: Chapman-Enskog expansion; 1.4.3 LBE models with multiple relaxation times; 1.5 Summary

Chapter 2 Initial and Boundary Conditions for Lattice Boltzmann Method

2.1 Initial Conditions; 2.1.1 Equilibrium scheme; 2.1.2 Non-equilibrium scheme; 2.1.3 Iterative method; 2.2 Boundary Conditions for Flat Walls; 2.2.1 Heuristic schemes; 2.2.2 Hydrodynamic schemes; 2.2.3 Extrapolation schemes; 2.3 Boundary Conditions for Curved Walls; 2.3.1 Bounce-back schemes; 2.3.2 Fictitious equilibrium schemes; 2.3.3 Interpolation schemes; 2.3.4 Non-equilibrium extrapolation scheme; 2.4 Pressure Boundary Conditions; 2.4.1 Periodic boundary conditions; 2.4.2 Hydrodynamic schemes; 2.4.3 Extrapolation schemes

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3.4 Accelerated LBE Methods for Steady Flows; 3.4.1 Spectrum analysis of the hydrodynamic equations of the standard LBE; 3.4.2 Time-independent methods; 3.4.3 Time-dependent methods; 3.5 Summary;

Chapter 4 Sample Applications of LBE for Isothermal Flows; 4.1 Algorithm Structure of LBE; 4.2 Lid-Driven Cavity Flow; 4.3 Flow around a Fixed Circular Cylinder; 4.4 Flow around an Oscillating Circular Cylinder with a Fixed Downstream One; 4.5 Summary;

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## Sommario/riassunto

Lattice Boltzmann method (LBM) is a relatively new simulation technique for the modeling of complex fluid systems and has attracted interest from researchers in computational physics. Unlike the traditional CFD methods, which solve the conservation equations of macroscopic properties (i.e., mass, momentum, and energy) numerically, LBM models the fluid consisting of fictive particles, and such particles perform consecutive propagation and collision processes over a discrete lattice mesh. This book will cover the fundamental and practical application of LBM. The first part of the book consists of

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