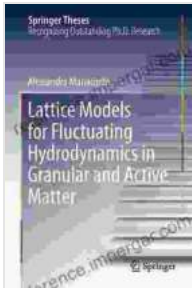


Lattice Models For Fluctuating Hydrodynamics In Granular And Active Matter



Lattice Models for Fluctuating Hydrodynamics in Granular and Active Matter (Springer Theses)

★★★★★ 5 out of 5

Language : English
File size : 38362 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 311 pages



By Patrick Richard, Eric Bertin

This book provides a comprehensive to lattice models for fluctuating hydrodynamics in granular and active matter. It covers both theoretical and computational aspects, with a focus on the latest developments in the field.

Granular and active matter are two types of complex fluids that have attracted a great deal of attention in recent years. Granular matter is composed of macroscopic particles, such as sand or grains, while active matter is composed of self-propelled particles, such as bacteria or cells. Both types of matter exhibit a wide range of fascinating phenomena, such as pattern formation, collective motion, and phase transitions.

Lattice models are a powerful tool for studying the behavior of complex fluids. They provide a simplified representation of the system, which allows

for the use of analytical and computational techniques to explore the system's dynamics. In this book, the authors present a variety of lattice models for granular and active matter, and they discuss the strengths and weaknesses of each model.

The book is divided into three parts. The first part provides an to the basic concepts of fluctuating hydrodynamics. The second part discusses lattice models for granular matter, and the third part discusses lattice models for active matter. Each part contains a number of chapters, each of which focuses on a specific topic.

The book is written in a clear and concise style, and it is suitable for both students and researchers. It is an essential resource for anyone who is interested in the study of granular and active matter.

Table of Contents

- 1.
2. Fluctuating Hydrodynamics
3. Lattice Models for Granular Matter
4. Lattice Models for Active Matter
5. Applications
- 6.

Reviews

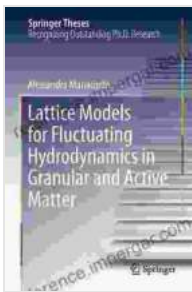
"This book is a comprehensive and up-to-date to lattice models for fluctuating hydrodynamics in granular and active matter. It is an essential

resource for anyone who is interested in the study of these fascinating materials."

- Professor Michael Cates, University of Edinburgh

"This book provides a clear and concise to the basic concepts of fluctuating hydrodynamics and lattice models. It is an excellent resource for students and researchers who are interested in the study of granular and active matter."

- Professor Eric Vanden-Eijnden, New York University

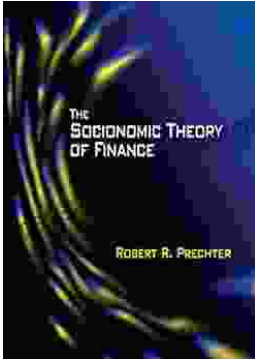


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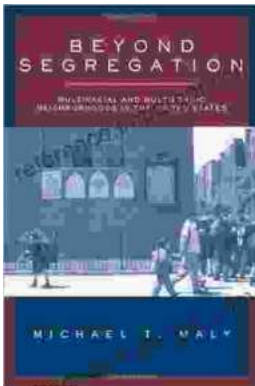
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