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Nota di contenuto	CONTENTS ; Preface ; Chapter 1 Multi-Particle Structures in Non-Sequentially Reorganized Hard Sphere Deposits ; 1. Introduction ; 2. Model Deposits ; 3. Statistics of Bridge Structures ; 4. Discussion ; References Chapter 2 Inelastic Hard Spheres with Random Restitution Coefficient: A New Model for Heated Granular Fluids 1. Introduction ; 2. System Studied and Modelisation ; 3. Kinetic Theory ; 4. Numerical Simulations ; 5. Conclusions and Perspectives ; References Chapter 3 Spin-Models of Granular Compaction: From One-Dimensional Models to Random Graphs 1. Introduction ; 2. Random Tapping and Thermal Tapping ; 3. The Ferromagnetic 3-Spin Hamiltonian ; 4. One-Dimensional Models ; 5. The Random Graph Model ; 6. Conclusion ; References

Chapter 4 Models of Free Cooling Granular Gases

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Lattice Models ; 4. One-Dimensional Models

; 5. Two-Dimensional Lattice Model ; 6.

Conclusions ; Chapter 5 The Steady State of the Tapped

Ising Model ; 1. Introduction

2. Determination of the Steady State Energy

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Sommario/riassunto

This book contains accounts of state-of-the art approaches to the physics of granular matter, from a widely interdisciplinary and international set of experts in the field. The authors include theorists such as S F Edwards, J Krug and J Kurchan; the book is also unique in reporting current experimental approaches with, importantly, a detailed account of new techniques. It will serve as an invaluable handbook for all researchers, both novice and experienced, who wish to get quickly directed to open questions in key aspects of this challenging and topical domain.
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