

Graduate Texts in Physics

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Monte Carlo Simulation in Statistical Physics

An Introduction

Sixth Edition

 Springer

Monte Carlo Simulation In Statistical Physics An Introduction

David P. Landau, Kurt Binder



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Monte Carlo Simulation in Statistical Physics Kurt Binder, Dieter Heermann, 2014-01-15

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random number generation At the end of the book the authors give a number of example programs demonstrating the applications of these techniques to a variety of well known models

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Fluids Richard J. Sadus, 2023-09-16 Molecular simulation allows researchers unique insight into the structures and interactions at play in fluids Since publication of the first edition of Molecular Simulation of Fluids novel developments in theory algorithms and computer hardware have generated enormous growth in simulation capabilities This 2nd edition has been fully updated and expanded to highlight this recent progress encompassing both Monte Carlo and molecular dynamic techniques and providing details of theory algorithms and both serial and parallel implementations Beginning with a clear introduction and review of theoretical foundations the book goes on to explore intermolecular potentials before discussing the calculation of molecular interactions in more detail Monte Carlo simulation and integrators for molecular dynamics are then discussed further followed by non equilibrium molecular dynamics and molecular simulation of ensembles and phase equilibria The use of object orientation is examined in detail with working examples coded in C Finally practical parallel simulation algorithms are discussed using both MPI and GPUs with the latter coded in CUDA Drawing on the extensive experience of its expert author Molecular Simulation of Fluids Theory Algorithms Object Orientation and Parallel Computing 2nd Edition is a practical accessible guide to this complex topic for all those currently using or interested in using molecular simulation to study fluids Fully updated and revised to reflect advances in the field including new chapters on intermolecular potentials and parallel algorithms Covers the application of both MPI and GPU programming to molecular simulation Covers a wide range of simulation topics using both Monte Carlo and molecular dynamics approaches Provides access to downloadable simulation code including GPU code using CUDA to encourage practice and support learning

Mathematical Tools for Physicists Michael Grinfeld, 2015-01-12 The new edition is significantly updated and expanded This unique collection of review articles ranging from fundamental concepts up to latest applications contains individual contributions written by renowned experts in the relevant fields Much attention is paid to ensuring fast access to the information with each carefully reviewed article featuring cross referencing references to the most relevant publications in the field and suggestions for further reading both introductory as well as more specialized While the chapters on group theory integral transforms Monte Carlo methods numerical analysis perturbation theory and special functions are thoroughly rewritten completely new content includes sections on commutative algebra computational algebraic topology differential geometry dynamical systems functional analysis graph and network theory PDEs of mathematical physics probability theory stochastic differential equations and variational methods

Simulation Methods for Polymers Michael Kotelyanskii, Doros N. Theodorou, 2004-03-15 Synthetic Lubricants and High Performance Functional Fluids Second Edition offers state of the art information on all the major synthetic fluids describing established products as well as highly promising experimental fluids with commercial potential This second edition contains chapters on polyinternalolefins polymer esters refrigeration lubes polyphenyl ethers highly refined mineral oils automotive gear oils and industrial gear oils The book also assesses automotive industrial aerospace environmental and commercial trends in Europe Asia South America and the US

Complex Inorganic Solids Patrice E. A. Turchi, Antonios Gonis, Krishna Rajan, Annemarie Meike, 2007-12-31 One of the key aspects of this volume is to cut across the traditional taxonomy of disciplines in the study of alloys Hence there has been a deliberate attempt to integrate the different approaches taken towards alloys as a class of materials in different fields ranging from geology to metallurgical engineering The emphasis of this book is to highlight commonalities between different fields with respect to how alloys are studied The topics in this book fall into several themes which suggest a number of different classification schemes We have chosen a scheme that classifies the papers in the volume into the categories Microstructural Considerations Ordering Kinetics and Diffusion Magnetic Considerations and Elastic Considerations The book has juxtaposed apparently disparate approaches to similar physical processes in the hope of revealing a more dynamic character of the processes under consideration This monograph will invigorate new kinds of discussion and reveal challenges and new avenues to the description and prediction of properties of materials in the solid state and the conditions that produce them

A Theoretical Introduction to Numerical Analysis Victor S. Ryaben'kii, Semyon V. Tsynkov, 2006-11-02 A Theoretical Introduction to Numerical Analysis presents the general methodology and principles of numerical analysis illustrating these concepts using numerical methods from real analysis linear algebra and differential equations The book focuses on how to efficiently represent mathematical models for computer based study An access

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