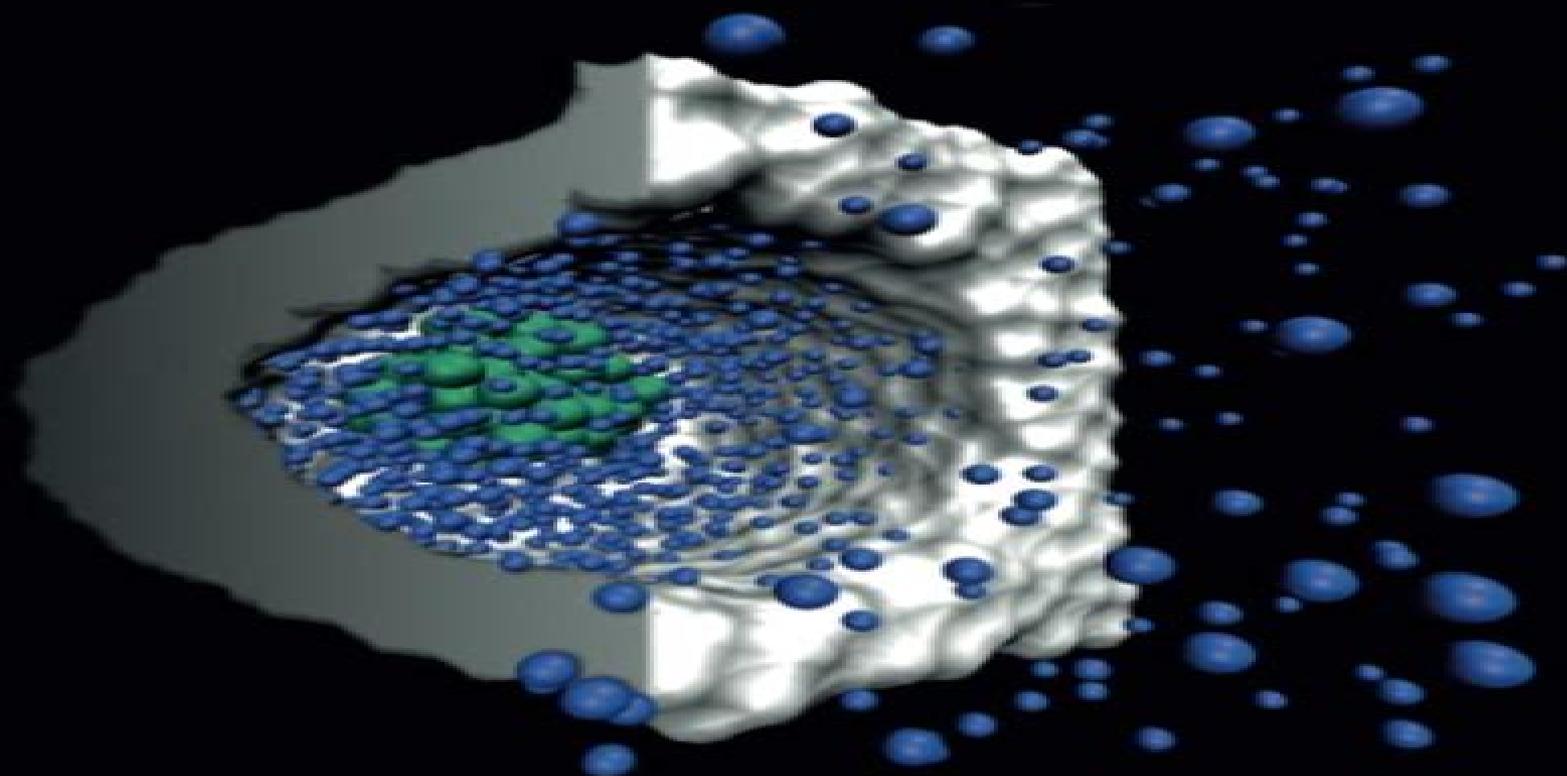# UNDERSTANDING MOLECULAR SIMULATION
From Algorithms to Applications

Third Edition

Daan Frenkel
Berend Smit

Understanding Molecular Simulation From Algorithms To Applications

Clifford Lane

Understanding Molecular Simulation From Algorithms To Applications:

   Understanding Molecular Simulation Daan Frenkel,Berend Smit,2001-10-19 Understanding Molecular Simulation From Algorithms to Applications explains the physics behind the recipes of molecular simulation for materials science Computer simulators are continuously confronted with questions concerning the choice of a particular technique for a given application A wide variety of tools exist so the choice of technique requires a good understanding of the basic principles More importantly such understanding may greatly improve the efficiency of a simulation program The implementation of simulation methods is illustrated in pseudocodes and their practical use in the case studies used in the text Since the first edition only five years ago the simulation world has changed significantly current techniques have matured and new ones have appeared This new edition deals with these new developments in particular there are sections on Transition path sampling and diffusive barrier crossing to simulaterare events Dissipative particle dynamic as a course grained simulation technique Novel schemes to compute the long ranged forces Hamiltonian and non Hamiltonian dynamics in the context constant temperature and constant pressure molecular dynamics simulations Multiple time step algorithms as an alternative for constraints Defects in solids The pruned enriched Rosenbluth sampling recoil growth and concerted rotations for complex molecules Parallel tempering for glassy Hamiltonians Examples are included that highlight current applications and the codes of case studies are available on the World Wide Web Several new examples have been added since the first edition to illustrate recent applications Questions are included in this new edition No prior knowledge of computer simulation is assumed   Understanding Molecular Simulation Daan Frenkel,Berend Smit,2023-07-13 Understanding Molecular Simulation explains molecular simulation from a chemical physics and statistical mechanics perspective It highlights how physical concepts are used to develop better algorithms and expand the range of applicability of simulations Understanding Molecular Simulation is equally relevant for those who develop new code and those who use existing packages Both groups are continuously confronted with the question of which computational technique best suits a given application Understanding Molecular Simulation provides readers with the foundational knowledge they need to learn about select and apply the most appropriate of these tools to their own work The implementation of simulation methods is illustrated in pseudocodes and their practical use is shown via case studies presented throughout the text Since the second edition s publication the simulation world has expanded significantly existing techniques have continued to develop and new ones have emerged opening up novel application areas This new edition aims to describe these new developments without becoming exhaustive examples are included that highlight current uses and several new examples have been added to illustrate recent applications Examples case studies questions and downloadable algorithms are also included to support learning No prior knowledge of computer simulation is assumed Fully updated guide to both the current state and latest developments in the field of molecular simulation including added and expanded information on such topics as molecular dynamics and statistical

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