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Computer simulation of systems has become an important tool in scientific research and engineering design, including the simulation of systems through the motion of their constituent particles. Important examples of this are the motion of stars in galaxies, ions in hot gas plasmas, electrons in semiconductor devices, and atoms in solids and liquids.

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In this chapter we describe the computer simulation of matter in the condensed phases, namely in the liquid and solid states. In these states of matter, densities are much higher than in the dilute gas phase and every atom or molecule in the system is always close to a number of other particles.

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IJERT/IJERT. ISSN: 2278-0181

CFD Simulation Of Hydrodynamics And Heat Transfer In Flow

This book provides a practical guide to molecular dynamics and Monte Carlo simulation techniques used in the modelling of simple and complex liquids. Computer simulation is an essential tool in studying the chemistry and physics of condensed matter, complementing and reinforcing both experiment and theory.

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