

MOLECULAR DYNAMICS SIMULATIONS OF BIOMOLECULES AT THE BEGINNING OF THE 21st CENTURY

Summary

Computer simulations have become a mature and useful method in studies of molecules of life. As a part of structural bioinformatics carefully planned numerical experiments provide unique data on dynamics and properties of biomolecules. In this article a review of the state of art of molecular dynam-

ics (MD) studies is presented. Current trends involving the steered MD, milestoning and coarse grained MD are described and some examples of MD applications in bio- and nano-technology are presented. The progress in hardware, such as parallel computing and purpose-built processors, is also addressed.