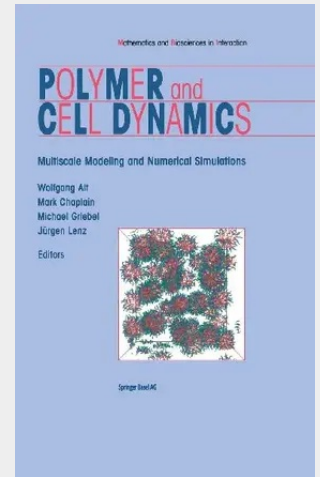


Polymer and Cell Dynamics

Multiscale Modelling and Numerical Simulations

Polymer and cell dynamics play an important role in processes like tumor growth, metastasis, embryogenesis, immune reactions and regeneration. This volume – based on an international workshop on numerical simulations of polymer and cell dynamics in Bad Honnef (Germany) in 2000 – provides an overview of the relevant mathematical and numerical methods, their applications and limits. The contributions are from the fields of applied and numerical mathematics, scientific computing, theoretical physics, molecular biophysics, cell and molecular biology as well as chemical and biomedical engineering. The volume will be of interest to scientists and advanced undergraduates in the fields of biotechnology, biomedicine, applied mathematics, biomathematics, biophysics and bioinformatics.

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