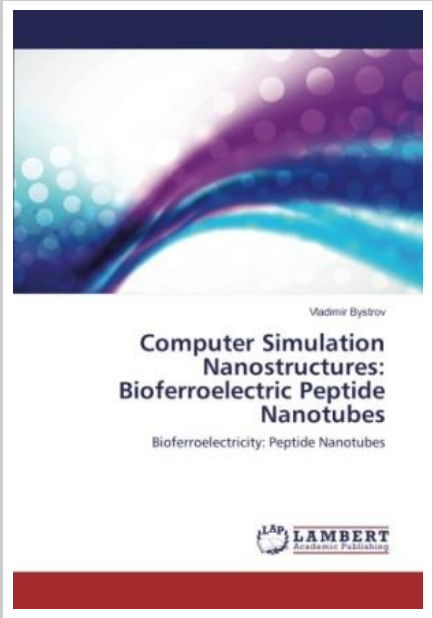

Computer Simulation Nanostructures: Bioferroelectric Peptide Nanotubes

By Vladimir Bystrov

LAP Lambert Academic Publishing Jul 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - Ferroelectricity is one of the general nonlinear properties of various materials. Currently found such phenomena in the biological and molecular systems - they are called 'bioferroelectricity.' We are currently investigating these properties at the nanoscale, with the help of modern atomic and piezo-force microscopy. Computer modeling of molecular structures not only visually 'see' these complex objects, but also to calculate their physical properties, to predict the structural reorganization. The book provides an overview of some basic questions of bioferroelectricity and more detailed are considered the di-phenylalanine peptide nanotubes. They represent a unique class of self-assembled biomaterials having the ferroelectric properties. This opens up new prospects for their use as various converters, points the new way of their nanobiomedical and technological applications. In this book, a main focus is on the computer modeling of these systems, which is essential for their research and practical applications. The book will be useful for students and young scientists interested in the nanoscience at the intersection of the physics, biology and mathematical modeling. 124 pp. Englisch.

Reviews

This publication can be really worth a go through, and a lot better than other. It is actually writter in straightforward words and phrases instead of confusing. I discovered this pdf from my dad and i suggested this publication to learn.

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