



سمینار هفتگی گروه ماده چگال نرم

Effective Potential for Longitudinal Interactions between Microtubule Protofilaments through a Two Well Potential model

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An effective potential for longitudinal interactions between adjacent protofilaments in a microtubule is introduced. Our proposed interaction potential is based on a Two Well Potential model. It is also incorporates the bending energy of protofilaments. This potential produces the results comparable to the atomistic simulation. Further using the potential, our Monte Carlo simulation results for the skew angles of observed structures are in the range of experimental results. We have improved this model due to employing a continuous function for the potential which can be the title of my next seminar.

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قطب ماده چگال و سیستمهای پیچیده