

The Object Kinetic Monte Carlo method

Wednesday 6 November 2013 14:30 (3h 30m)

Object Kinetic Monte Carlo (OKMC) is a stochastic simulation method, suitable for modelling of systems where the processes are on a time scale of seconds to years. The general method of OKMC will be presented based on an example of evolution of nanostructure in model alloys of steels employed in reactor pressure vessels of nuclear reactors. We will discuss the possibilities and restrictions of the OKMC method for future applications for simulations of materials operated under high electric fields.

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Session Classification: Poster session