

Computational mechanics as a power tool for exploration of deformation mechanism of nanomaterials and mechanobiology

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Abstract

Recent years, nanomaterial and biomechanics are becoming hot topics, and a large number of experiments have been conducted to study properties of nanomaterials and mechanobiology system. This talk discusses recent research in author's group for the numerical exploration of the newly synthesized diamond nano-tube and advanced musclic modelling for cells. It has proven that computational mechanics is becoming a power tool to explore deformation mechanism of nanomaterials and mechanobiology.