The state of the arts: Simulation of nanostructures using COMSOL multiphysics

Abstract

Currently, Computer simulation has become an essential part of nanotechnology and engineering and science. Digital analysis of components, in particular, is important when developing new products or optimizing designs. Today a broad spectrum of options for simulation is available; researchers use everything from basic programming languages to various high-level packages implementing advanced methods. Though each of these techniques has its own unique attributes, they all share a common concern. Hence, the paper present a COMSOL simulation on nanostructures, the past and recent development nanostructures design and simulation for nanogap, nonporous, nanowires and carbon Nanotube. Keywords; Nanostructures. COMSOL Multiphysics, Nanowire, Nanogap, Nanotechnology.

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