

Spectral problem for chain type nanostructures

I. Popov; State University of Information Technologies, Mechanics and Optics, St.-Petersburg

Abstract

The model of quantum graph for nanostructures of chain type is considered. The continuous spectrum is described for chain of rings (particularly in a magnetic field)? for nanoribbon and for decorated chain graph. We discuss the problem of the point spectrum for the corresponding locally perturbed systems.