

CONVOCATORIA DE SEMINARIO

DIA: 12 de Junio 2006

Lugar: Salón de Actos ETSI Telecomunicación (3ª planta)

Hora: 12:00

Theory of homogenization of photonic and phononic crystals

Arkadii Krokhin

University of North Texas (EEUU)

New periodic heterostructures – photonic crystals – are expected to produce new media for information technology by replacing traditional electronic devices by integrated photonic circuits. In this talk I'll consider fundamental optical properties of photonic crystals in the low-frequency region. The question of interest is: What is the speed of light in photonic crystals? Answering this question we can understand what are the similarities and distinctions between optics of natural crystals and artificial photonic crystals. Similar question arises for phononic crystal – periodic elastic composites.