

Photonic And Phononic Crystals

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Summary:

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Photonic-, Phononic- and Meta- Materials Group Welcome to the web-page of the Photonic, Phononic and Meta- Materials Group of IESL. The research interest of our group is the development and study (mainly theoretical but also experimental) of artificial composite materials for the control of electromagnetic and elastic waves. Thermal transport | Phononic and Photonic Nanostructures group The Phononic and Photonic Nanostructures group develop new concepts for multi-state variables based on the engineered interactions of phonons with electrons and with photons, in device-like structures. One particular interest is thermal transport in the nanoscale to address heat dissipation in nanoelectronics. Phononic and photonic band gap structures: modelling and ... Phononic band gap structures Analogously to the photonic crystals, PhnCs make use of the fundamental properties of waves, such as scattering and interference, to create band gaps where waves cannot propagate through the structure.

Phononic and Photonic Nanostructures Group - ICN2 ICREA Research Prof. Dr Clivia M. Sotomayor Torres was awarded her PhD in physics in 1984 by the University of Manchester (UK). She then held tenured academic appointments at the universities of St. Andrews and Glasgow universities in the UK, before becoming a C4 professor at UniversitÄt Wuppertal (Germany) in 1996. Photonic-Phononic Waveguides Used to Create Brillouin ... Photonic-Phononic Waveguides Used to Create Brillouin Laser Photonics Spectra Sep 2018 A laser that uses sound waves to amplify light could help address the need for silicon lasers that can overcome obstacles associated with silicon's indirect bandgap when powering photonic integrated circuits. Photonic-, Phononic- and Meta- Materials Group Phononic crystals are the acoustic analogue of photonic crystals. It is going for periodic composite media with spectral regions where the propagation of the acoustic and elastic waves is forbidden (phononic band gaps).

Photonic crystal - Wikipedia A photonic crystal is a periodic optical nanostructure that affects the motion of photons in much the same way that ionic lattices affect electrons in solids. Photonic crystals occur in nature in the form of structural coloration and animal reflectors, and, in different forms. What is Optical and Photonic band gap? - ResearchGate The Photonic band gap corresponds to the reflection of light by a periodic object which period is equal to half the wavelength of the light that falls onto it. It is the result of an interference. Photonic metamaterial - Wikipedia A photonic metamaterial (PM), also known as an optical metamaterial, is a type of electromagnetic metamaterial, that interacts with light, covering terahertz , infrared (IR) or visible wavelengths. The materials employ a periodic , cellular structure.

Solid-State Cooling Solutions by Phononic Phononic's unrivaled approach to solid-state cooling uses semiconductor chips to deliver unrivaled temperature control and energy efficiency.

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