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Acoustic Metamaterials And Phononic Crystals

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Acoustic metamaterials and phononic crystals have some extraordinary physical properties, effective negative parameters, band gaps, negative refraction, etc., extending the acoustic properties of existing materials.

A Review of Acoustic Metamaterials and Phononic Crystals

The emphasis is on acoustic wave propagation phenomena at interfaces such as refraction, especially unusual refractive properties and negative refraction. A thorough discussion of the mechanisms leading to such refractive phenomena includes local resonances in metamaterials and scattering in phononic crystals.

Acoustic Metamaterials and Phononic Crystals | SpringerLink

An acoustic metamaterial, sonic crystal, or phononic crystal, is a material designed to control, direct, and manipulate sound waves or phonons in gases, liquids, and solids (crystal lattices). Sound wave control is accomplished through manipulating parameters such as the bulk modulus β , density ρ , and chirality.

Acoustic metamaterial - Wikipedia

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Phononic crystals and acoustic metamaterials are artificial materials that exhibit extraordinary physical phenomena, functions, and properties in acoustics. Phononic crystals are generally periodic elastic composites or structures designed with local defects for controlling of acoustic wave propagation.

Crystals | Special Issue : Recent Advances in Phononic ...

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The Special Interest Group (SIG) for Acoustic Metamaterials (SIGAM) is concerned with the development of metamaterial devices to create control of sound and elastic wave vibration using subwavelength resonators. The SIG will also maintain an interest in related areas such as phononic crystal, and other structured media as well as treated ...

Metamaterials | The UK Acoustics Network

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Acoustic Metamaterials and Phononic Crystals: Deymier ...

Phononic crystals and acoustic metamaterials : applications to guiding and filtering phenomena and acoustic isolation . By Hocine Larabi. Abstract. Cette thèse est consacrée à l'étude de certaines propriétés nouvelles des cristaux phononiques et des métamatériaux acoustiques. La plupart des simulations numériques a été réalisée ...

Phononic crystals and acoustic metamaterials ...

An overview of the literature on tunable phononic crystals is given. Three of the tuning methods proposed in the literature are described in some details. We also illustrate the new or enhanced functionalities open by the tuning of the phononic crystal properties. These applications include reconfigurable waveguides and tunable superlenses.

Tunable Phononic Crystals and Metamaterials | SpringerLink

Phononics 2019 is the fifth conference dedicated to analysis and manipulation of phonons (vibrations in solids), connecting researchers interested in phononic crystals, acoustic/thermal metamaterials, wave propagation in periodic structures, nano-scale phonon transport, and optomechanics and phonon coupling.

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