

acoustic metamaterials and phononic pdf

Optical metamaterials have been widely studied in the past decade for applications such as cloaking and perfect lenses. The basic principles of optical metamaterials apply to acoustic ...

New metamaterials device focuses sound waves like a camera

A perfectly matched layer (PML) is an artificial absorbing layer for wave equations, commonly used to truncate computational regions in numerical methods to simulate problems with open boundaries, especially in the FDTD and FE methods. The key property of a PML that distinguishes it from an ordinary absorbing material is that it is designed so that waves incident upon the PML from a non-PML ...

Perfectly matched layer - Wikipedia

Chirality is associated with the breaking of symmetry, often described as left- or right-handed behavior. Such asymmetry can be seen, for example, in the electronic responses of particular materials or the reactions between particular chemical species. Zhu et al. observed a chiral phonon mode in a monolayer of the transition metal dichalcogenide WSe₂, detected spectroscopically as the circular ...

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