

Acoustic Metamaterials Tunable Gradient Index Phononic Crystals For Acoustic Wave Manipulation By Lin Sz Chin Steven 2012 Paperback

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Enhanced flexural wave sensing by adaptive gradient-index ...

tremendous progress in acoustic metamaterials, decelerating, trapping and spectrum-splitting of elastic waves by using elastic metamaterials has not yet been realized due to the fact that there is still a lack of a feasible and easily tunable meta-structure with strong gradient index ...

Design of acoustic metamaterials using the covariance ...

tions, acoustic metamaterials with a large refraction index are essential and highly desired for devices with complex functionalities, eg, a gradient refraction index (GRIN) lens with a short focal length or an ultrathin acoustic cloak^{6,10,13}) Recently, rapid progress has been made in demonstrating

arXiv:1505.00453v1 [physics.class-ph] 3 May 2015

form the incident acoustic field into a converging field Gradient-index metamaterials could achieve the same effect by varying the delay of the

acoustic wave as it propagates through various parts of a flat lens [20–22, 27, 28] We employ here the latter idea However, instead of de-laying the incident wave inside the material itself we en-

Tunable Asymmetric Transmission via Lossy Acoustic ...

Tunable Asymmetric Transmission via Lossy Acoustic Metasurfaces Yong Li,^{1,2} Chen Shen,^{3,4} Yangbo Xie,³ Junfei Li,³ Wenqi Wang,³ Steven A Cummer,^{3,*} and Yun Jing^{4,†} ¹Institute of Acoustics

A continuously tunable acoustic metasurface for ...

1 A continuously tunable acoustic metasurface for transmitted wavefront manipulation Sheng-Dong Zhao^{1, 2}, Yue-Sheng Wang^{1,*}, and Chuanzeng Zhang^{2,*} ¹Institute of Engineering Mechanics, Beijing Jiaotong University, Beijing 100044, China ²Department of Civil Engineering, University of Siegen, Siegen 57068, Germany Abstract: Previously reported acoustic metasurfaces that consist of fixed ...

ACOUSTIC METAMATERIAL DESIGN AND APPLICATIONS BY ...

The third chapter deals with one of the most promising application of acoustic metamaterials, obtaining a negative refractive index lens which can possibly overcome the diffraction limit An acoustic system is simulated by the analogous lumped circuit model in which the behavior of the current resembles the motion of the fluid

Fabrication and experimental demonstration of a hybrid ...

Tunable perfect negative reflection based on an acoustic coding metasurface Over the past few years, acoustic gradient index metasurfaces (GIMs) have been actively studied for the numerous wave control capabilities mechanical metamaterials are accompanied by the rapid advances of

Enhanced flexural wave sensing by adaptive gradient-index ...

1 Enhanced flexural wave sensing by adaptive gradient-index metamaterials YY Chen ¹, R Zhu¹, MV Barnhart & GL Huang¹ Increasing sensitivity and signal to noise ratios of conventional wave

Microwave metamaterials—from passive to digital and ...

Optical and acoustic metamaterials: superlens, negative refractive index and invisibility cloak Zi Jing Wong, Yuan Wang, Kevin O'Brien et al-Roadmap on optical metamaterials Augustine M Urbas, Zubin Jacob, Luca Dal Negro et al-Gradient metasurfaces: a review of fundamentals and applications Fei Ding, Anders Pors and Sergey I Bozhevolnyi

Experimental study of an adaptive elastic metamaterial ...

Optimizing the band gap of effective mass negativity in acoustic metamaterials Appl Phys Lett 101, 241902 (2012); 101063/14770370 demonstrated that a one-dimensional tunable acoustic meta-vides a great potential for the design of a gradient-index EMM for applications in elastic wave steering and even elastic wave cloaking

The Present and Future Role of Acoustic Metamaterials for ...

size and shape of structures, acoustic metamaterials can be used for noise attenuation purpose over a specific pre-designed and tunable frequency range The fundamental concept of acoustic metamaterials is extensively discussed in previously published review articles [26–36] Figure 1 Sound absorption coefficients of various traditional

Design Of Acoustical Bessel-Like Beam Formation By Tunable ...

One type of acoustic lenses are those which change the refractive index among the medium ²³ known as Gradient-Index (GRIN) lenses using labyrinthine structures [12–14] Phononic crystals [15], ²⁴ acoustic metamaterials [16] and acoustic resonators [17] have also been used in the

implementation of 25 acoustic lenses

Mathematical modeling of metamaterials

12 Basic Structures of Metamaterials There are many different types of metamaterials Terahertz, photonic, tunable, frequency selective surface (FSS) based, nonlinear, absorber, superlens, cloaking de-vice, antenna, acoustic, and even seismic Usually, they are periodic structures which incorporate a system of SRRs and wires

A sound absorbing metasurface with coupled resonators

efficiently enter the absorber Conventional means of acoustic absorption use porous and fibrous materials,1-3 gradient index materials,4 or perforated or micro-perforated plates with cavi-ties behind them3,5 Such absorbers usually result in an imper-fect impedance match with ...

Yuvakbharati English 11th

structural concrete standard, acoustic metamaterials tunable gradient index phononic crystals for acoustic wave manipulation, a4tech rfkbs 26a, a study of islamic history by k ali pdf, a really good day how microdosing made a mega difference in my mood my marriage and my life, a ...

Topology optimization of anisotropic elastic metamaterial ...

low loss and high accuracy To make metamaterials more practical, some researchers reported structures with tunable and reconfigurable negative properties (Baz et al, 2009; Kasirga et al, 2009; Ma et al, 2014) Unlike the electromagnetic and acoustic metamaterials, however, the increased number of

Elastic Wannier-Stark ladders and Bloch oscillations in 1D ...

Acoustic valley edge states in a graphene-like resonator system Journal of Applied Physics 123, 091713 (2018); 101063/15009626 Topologically protected bound states in one-dimensional Floquet acoustic waveguide systems Journal of Applied Physics 123, 091716 (2018); 101063/15010830 Zero refractive index in time-Floquet acoustic metamaterials

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