
Acoustic Metamaterials

acoustic metamaterials - acousticstoday - fall 2016 | *acoustics today* | 31 introduction why have acoustic metamaterials (amms) appeared on the scene in the last few years, and what are they? **acoustic metamaterial design and applications by shu zhang ...** - acoustic metamaterial design and applications by shu zhang dissertation submitted in partial fulfillment of the requirements for the degree of doctor of philosophy in ... **review on acoustic metamaterials - esa** - review on acoustic metamaterials . josé sánchez-dehesa . wave phenomena group , universitat politècnica de valència, camino de vera s.n., es-46022 valencia, spain **acoustics acoustic metamaterials: from local resonances to ...** - doubly negative mass density and bulk modulus by overlapping the frequency responses with the two symmetry types, it is possible to realize acoustic double negativity. **characterization of anisotropic acoustic metamaterials** - which the principal axes are not parallel to the slab interfaces . in this work, we present a method to characterize anisotropic acoustic metamaterials that have a **membrane- and plate-type acoustic metamaterials** - membrane- and plate-type acoustic metamaterials tai-yun huang, chen shen, and yun jing) department of mechanical and aerospace engineering, north carolina state university, raleigh, **2.3 concept of active acoustic metamaterials - spie** - 2.3 concept of active acoustic metamaterials in order to understand the concept and the structure of an active acoustic metamaterial, consider the structure of the external and internal acoustic **theory of acoustic metamaterials and metamaterial beams ...** - acta polytechnica hungarica vol. 13, no. 7, 2016 - 43 - theory of acoustic metamaterials and metamaterial beams: an overview livia cveticanin, gyula mester **acoustic metamaterials: metamaterials for wave control and ...** - 30 | innovative materials 4 2018 research acoustic metamaterials: metamaterials for wave control and manipulation by exploring nonlinearity the development of metamaterials enables to engineer materials with extraordinary **acoustic metamaterials - physicstodayitation** - june 2016| *physics today*43 mike haberman(haberman@arlut.utexas) is a research scientist in the applied research laboratories and the department **active acoustic metamaterials reconfigurable in real time** - rapid communications physical review b 91, 220303(r) (2015) active acoustic metamaterials reconfigurable in real time bogdan-ioan popa,* durvesh shinde, adam konneker, and steven a. cummert **controlling sound with acoustic metamaterials - all faculty** - the propagation of sound in new ways, made possible by the creation of unusual material properties. these efforts have been successful on many fronts. **acoustic metamaterials capable of both sound insulation ...** - acoustic metamaterials capable of both sound insulation and energy harvesting junfei li1, xiaoming zhou1, guoliang huang2 and gengkai hu1 1key laboratory of dynamics and control of flight vehicle, ministry of education and school of

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