

WAVES IN GRADIENT METAMATERIALS

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Waves in Gradient Metamaterials by A. B. Shvartsburg. Read online, or download in secure PDF format.

between a series of electromagnetic and acoustic wave phenomena in the novel physical concepts of wave phenomena in gradient metamaterials and the.

We demonstrate that asymmetric acoustic wave transmission in a waveguide can be achieved via gradient index metamaterials (GIMs). We theoretically prove.

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Through analyzing the band structures for a given working frequency, when the refractive index of GIMs varies from a low value into a higher one, the incident propagating wave will be gradually converted into an evanescent wave confined in the layer of GIMs, called as surface wave. Transformation media that rotate electromagnetic fields.

Stefan Helfert. In this paper we review the different devices that have been. In conclusion, based on the concept of mode conversion, we have designed several meaningful devices of waveguides with GIMs. Search Close.

Band structure of elastic waves in two-dimensional systems. Note that the observation lines will be different at different frequencies. Well-Organized Inorganic Nanowire Films.