

waves in metamaterials pdf

An electromagnetic metamaterial affects electromagnetic waves that impinge on or interact with its structural features, which are smaller than the wavelength. To behave as a homogeneous material accurately described by an effective refractive index, its features must be much smaller than the wavelength.. For microwave radiation, the features are on the order of millimeters.

Metamaterial - Wikipedia

Metamaterial cloaking is the usage of metamaterials in an invisibility cloak. This is accomplished by manipulating the paths traversed by light through a novel optical material. Metamaterials direct and control the propagation and transmission of specified parts of the light spectrum and demonstrate the potential to render an object seemingly invisible.

Metamaterial cloaking - Wikipedia

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 - Phys.org

Metamaterials research and development are the core of the Kuang-Chi Research Institute of Advanced Technology (referred to as Kuang-Chi). Kuang-Chi is intended to establish the connection between fundamental research and industrial implementation.

Metamaterials: Reshape and Rethink - ScienceDirect

Metamaterials are artificial electromagnetic media structured on a scale much shorter than their operating wavelength. Under this condition they can be considered as homogeneous media whose electromagnetic properties rely mainly on the basic cell rather than periodic effects as it is the case for photonic crystal or more generally electromagnetic band gap material.

Mie resonance-based dielectric metamaterials - ScienceDirect

Fractal's FM/R metamaterial and antenna technology makes debut at CES January 12, 2018. BEDFORD, Mass.--(BUSINESS WIRE)--A spinoff of invisibility cloak technology has finally seen the lights and glitz of Las Vegas, as Fractal Antenna Systems, Inc. (FRACTAL) debuted its breakthrough fractal metamaterial technology (FM/R) at the CES.

Fractal Antenna Systems - Latest News

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