

Optical Metamaterials Fundamentals And Applications

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This volume details recent advances in the study of optical metamaterials, ranging from fundamental aspects to up-to-date implementations, in one unified treatment. Important recent developments and applications such as superlenses and cloaking devices are also treated in detail and made understandable.

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Abstract. Recent advances in nanofabrication and characterization technologies have spurred many breakthroughs in the field of optical metamaterials and metasurfaces that provide novel ways of manipulating light interaction in a well controllable manner. Among these artificial nanostructured materials, 3D bulk hyperbolic metamaterials and 2D planar hyperbolic metasurfaces exhibit ultra-anisotropic electromagnetic responses and lead to dramatic changes for the light propagation behaviors.

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Important developments and applications such as superlenses and cloaking devices are also treated in detail and made understandable. Optical Metamaterials has been well-received by the optics community--this new edition will continue to serve as a useful reference for both newcomers and advanced researchers in this rapidly evolving field.

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A photonic metamaterial, also known as an optical metamaterial, is a type of electromagnetic metamaterial, that interacts with light, covering terahertz, infrared or visible wavelengths. The materials employ a periodic, cellular structure. The subwavelength periodicity distinguishes photonic metamaterials from photonic band gap or photonic crystal structures. The cells are on a scale that is magnitudes larger than the atom, yet much smaller than the radiated wavelength, are on the order of nanom

Photonic metamaterial - Wikipedia

However, in recent years, the metamaterial community has mainly focused on the natural optical activity originating from ED-MD interference. Metamaterials can be applied to various chiral systems with multiple origins. The optical response of physical objects is described by the multipole orders such as the dipole ($n=1$) and the quadrupole ($n=2$). The well-established hierarchy of the multipoles helps us to understand the chiroptical responses of objects.

Metamaterials and chiral sensing: a review of fundamentals ...

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