

**PHYSICS AND APPLICATIONS OF NEGATIVE  
REFRACTIVE INDEX MATERIALS**

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**Phys. Rev. Lett. , () - Negative Refractive Index in Chiral Metamaterials**

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## **Modeling meta materials with a negative refractive index - Materials Today**

How can we make refractive index  $n$  materials with negative values of both  $\epsilon$  and  $\mu$  .

## **Conditions of Perfect Imaging in Negative Refraction Materials with Gain**

Ever since the first experimental demonstration was reported in [1], the interest in metamaterials and left-handed media that exhibit a negative refractive index.

## **The reality of negative refraction - Physics World**

Negative-index metamaterial or negative-index material (NIM) is a metamaterial whose Metamaterials that exhibit a negative value for the refractive index are often Physics and Applications of Negative Refractive Index Materials (PDF).

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You are commenting using your Facebook account. Currently they are the prevailing structures for the optical wavelength range. Electrodynamics of media with negative indices of refraction were first studied by a Russian theorist Victor Veselago in

In other words, materials are combined with a desired result in mind. Most of the researchers agree that metamaterials attain their properties from the unit structure instead of the constituent materials, while that unit structure has subwavelength dimensions so that their electromagnetic optical properties may be expressed utilizing homogenized material parameters effective medium theory. Far-field optical superlens. In a team of researchers constructed a prism composed of metamaterials negative-index metamaterials to experimentally test for negative refractive index.

Nano membranes can be made in a variety of inorganic and organic materials, with the use of optical pumping to realize perfect imaging is restricted to a very narrow spectral region, under precisely defined pumping conditions. The realization of terahertz chiral negative index metamaterials offers opportunities for investigation of their novel electromagnetic properties, such as negative refraction and negative reflection, as well as important terahertz device applications.