

# Optical Metamaterials Fundamentals And Applications

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## **Optical Metamaterials Fundamentals And Applications**

Negative-index metamaterial or negative-index material (NIM) is a metamaterial whose refractive index for an electromagnetic wave has a negative value over some frequency range.. NIMs are constructed of periodic basic parts called unit cells, which are usually significantly smaller than the wavelength of the externally applied electromagnetic radiation. The unit cells of the first ...

## **Negative-index metamaterial - Wikipedia**

1 Introduction. Metamaterials (MMs) are three-dimensional (3D) artificial composite nanostructures with unprecedented properties for guiding and controlling the flow of electromagnetic waves, and have various intriguing novel optical effects and applications not achievable using natural materials. 1-4 However, it is still difficult to realize many of the proposed

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potential applications or ...

## **Fundamentals and Applications of Metasurfaces - Hsiao**

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According to energy balance theory, the net radiative cooling power of the radiator is the comprehensive manifestation of the four preceding energy flows mentioned and can be expressed as follows : (1)  $q_{\text{net-cooling}} = q_{\text{rad}} - q_{\text{sky}} - q_{\text{sun}} - q_{\text{loss}}$  where  $q_{\text{net-cooling}}$  is the net radiative cooling power of the radiator,  $W$ , and  $T_r$  denotes the absolute temperature of the radiator,  $K$ .

## **Radiative cooling: A review of fundamentals, materials ...**

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