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## **Metamaterials: a new dimension in electromagnetism**

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Building any device requires the use of materials and in electromagnetism it is often the case that nature does not provide what we need. Hence the concept of a metamaterial which adds the engineering subwavelength structure within a material to the choice of chemical composition. In this way entirely novel properties have been realised most prominent of which have been metamaterials with a negative refractive index. I shall outline the development of the field with some examples of applications and the more recent applications to commercial products.

**Primary author:** Prof. PENDRY, John (Imperial College London)

**Presenter:** Prof. PENDRY, John (Imperial College London)

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