



Metamaterials: Theory, Design, and Applications

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Metamaterials: Theory, Design, and Applications goes beyond left-handed materials (LHM) or negative index materials (NIM) and focuses on recent research activity. Included here is an introduction to optical transformation theory, revealing invisible cloaks, EM concentrators, beam splitters, and new-type antennas, a presentation of general theory on artificial metamaterials composed of periodic structures, coverage of a new rapid design method for inhomogeneous metamaterials, which makes it easier to design a cloak, and new developments including but not limited to experimental verification of invisible cloaks, FDTD simulations of invisible cloaks, the microwave and RF applications of metamaterials, sub-wavelength imaging using anisotropic metamaterials, dynamical metamaterial systems, photonic metamaterials, and magnetic plasmon effects of metamaterials.

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Editorial Review

From the Back Cover

Metamaterials: Theory, Design and Applications focuses on the most recent research activity in metamaterials, taking a reader beyond previously covered areas like left-handed materials (LHM) and negative index materials (LIM). Some new developments covered in the book include a rapid design method for inhomogeneous metamaterials, microwave and RF applications of metamaterials and dynamic metamaterial systems. Editors Tie Jun Cui, David R. Smith and Ruopeng Liu bring together the leading international minds focused on metamaterials to provide an all-encompassing look at a rapidly-developing field. This book stands alone as a must-read for any engineer or researcher working with metamaterials.

Drawing on their years of experience in the field, editors Tie Jun Cui, David R. Smith and Ruopeng Liu present a breadth of research in metamaterials, covering areas like:

- Optical transformation theory, including invisible cloaks, concentrators, beam splitters and antennas.
- Photonic metamaterials and the magnetic Plasmon effect.
- Experimental verification techniques for invisible cloaks.

Users Review

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Bertha Costa:

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