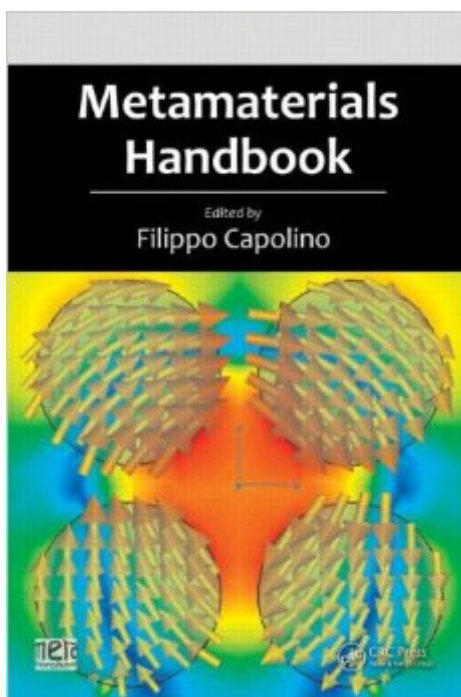


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Synopsis

The study of artificial electromagnetic materials, or metamaterials, breaks down the traditional frontiers to combine disciplines such as physics and microfabrication, electromagnetic theory and computational methods, optics and microwaves, and nanotechnology and nanochemistry. With their unique physical properties and unusual combination of microscopic and nanoscopic structures, metamaterials have application potential in a wide range of fields, from electronics and telecommunications to sensing, medical instrumentation, and data storage. However, the strategic objectives of metamaterial development require close cooperation between the many subareas of the field and cross-fertilization of the research from each. A superior reference for these multidisciplinary challenges, the *Metamaterials Handbook* provides the multifaceted understanding required by those researching this broad and exciting field. Featuring contributions from international experts, this book covers the essential aspects of metamaterials, including modeling and design, proven and potential applications in practical devices, fabrication, characterization, and measurement. With detailed references for each topic, it conveniently organizes a wealth of information into two volumes—*Theory and Phenomena* and *Applications*—that cover years worth of extensive research in this exciting area. Summarizing the state of the art in the field of electromagnetic artificial materials, this handbook is an ideal guide to using metamaterials for electronic devices in the entire frequency spectrum, from megahertz to optical frequencies.

Book Information

Series: *Metamaterials Handbook*

Hardcover: 1736 pages

Publisher: CRC Press; 1st edition (October 27, 2009)

Language: English

ISBN-10: 1420053620

ISBN-13: 978-1420053623

Product Dimensions: 7.5 x 3.7 x 10.8 inches

Shipping Weight: 8.2 pounds (View shipping rates and policies)

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