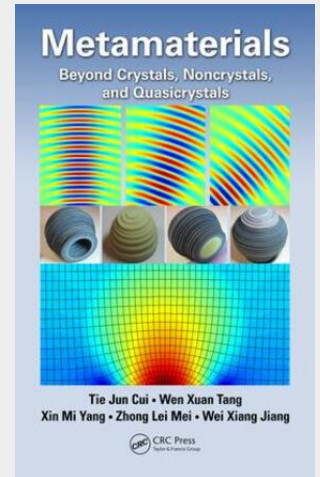


METAMATERIALS

Metamaterials: Beyond Crystals, Noncrystals, and Quasicrystals is a comprehensive and updated research monograph that focuses on recent advances in metamaterials based on the effective medium theory in microwave frequencies. Most of these procedures were conducted in the State Key Laboratory of Millimeter Waves, Southeast University, China. The book conveys the essential concept of metamaterials from the microcosmic structure to the macroscopic electromagnetic properties and helps readers quickly obtain needed skills in creating new devices at microwave frequencies using metamaterials. The authors present the latest progress on metamaterials and transformation optics and provide abundant examples of metamaterial-based devices accompanied with detailed procedures to simulate, fabricate, and measure them. Comprised of ten chapters, the book comprehensively covers both the fundamentals and the applications of metamaterials. Along with an introduction to the subject, the first three chapters discuss effective medium theory and artificial particles. The next three chapters cover homogeneous metamaterials (super crystals), random metamaterials (super noncrystals), and inhomogeneous metamaterials (super quasicrystals). The final four chapters examine gradient-index inhomogeneous metamaterials, nearly isotropic inhomogeneous metamaterials, and anisotropic inhomogeneous metamaterials, after which the authors provide their conclusions and closing remarks. The book is completely self-contained, making it easy to follow.



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