



Photonic Crystals

By Henri Benisty

Springer Mai 2008, 2008. Buch. Book Condition: Neu. 235x155x38 mm. Neuware - This book provides the theoretical background required for modelling photonic crystals and their optical properties, while presenting the large variety of devices where photonic crystals have found application. As such, it aims at building bridges between optics, electromagnetism and solid state physics. This second edition includes the most recent developments of two-dimensional photonic crystal devices, as well as some of the last results reported on metamaterials. Just like the periodical crystalline potential in solid state crystals determines their properties for the conduction of electrons, the periodical structuring of photonic crystals leads to envisioning the possibility of achieving a control of the photon flux in dielectric and metallic materials. The use of photonic crystals as cages for storing, filtering or guiding light at the wavelength scale paves the way to the realization of optical and optoelectronic devices with ultimate properties and dimensions. This will contribute towards meeting the demands for greater miniaturization imposed by the processing of an ever increasing number of data. Photonic Crystals will provide students and researchers from different fields with the theoretical background required for modelling photonic crystals and their optical properties, while at the...



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