

Abstracts

A New Type of Waveguide Structures with Photonic Band Structures

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We study a new type of waveguide structures -- two-dimensional photonic crystals sandwiched between two metal conductors. In the structures, not only the electromagnetic propagation, but also the radiation spectra can be controlled. Radiation from microwave dipole antennas can be completely suppressed in band gaps and enormously enhanced at specific pass bands frequencies.

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