Abstracts

Fundamental artificial periodic substrate effects on printed circuit antennas

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The implementation of photonic bandgap technology into integrated circuit structures results in interesting novel microwave and millimeter-wave devices. This paper presents the effects of planar periodic elements to the characteristics of printed circuit antennas. This investigation provides a fundamental study of integrated circuit components on periodic media. The effects of the wave band-gap to the printed-antenna efficiency, radiation resistance, and antenna gain will be discussed.

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