A Compact and Stable Frequency Selective Surface for WLAN Applications

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Abstract

In this paper, a single-layer bandstop Frequency Selective Surface (FSS) is proposed for Wireless Local Area Networks (WLAN) Applications. The unit cell of the proposed FSS consists of a modification in a square patch element by the insertion of triangular shaped slots. The designs demonstrate a wide 3.8 GHz stopband in the WLAN frequency range. Moreover, it shows angular stability at various angles of incidence up to 40°.

References


Index Terms

Computer Science Wireless

Keywords

Frequency selective surfaces, angular stability, polarization independence, WLAN.