

عنوان مقاله:

NOVEL SUPER WIDE BAND ANTENNA WITH WLAN/WiMAX BANDREJECTION AND COMPACT SIZE

محل انتشار:

هفدهمین کنفرانس ملی دانشجویی مهندسی برق ایران (سال: 1393)

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خلاصه مقاله:

A $25 \times 25 \times 1.6$ mm³ implementation of a microstrip-fed printed monopole antenna for the future UWB wireless systems application is presented. It has features of possesses bandnotched function (from ۴.۸۸ to ۶.۰۷GHz), extremely wide impedance bandwidth (from ۲.۵۸ to ۱۸GHz) and its compact size. By using a smooth tapering between the semi fractal shaped patch and the half ellipse-shaped defected ground plane, the wide impedance bandwidth is achieved with ratio bandwidth larger than ۶.۹۷:۱. Numerical and experimental results are in good agreement and they indicate that the proposed antenna has a measured ۲:۱ VSWR bandwidth of ۱۴۹.۸%, except therejected WLAN band

کلمات کلیدی:

antenna , microstrip, band notched, radiation

لینک ثابت مقاله در پایگاه سیویلیکا:

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