

عنوان مقاله:

Design and Fabrication of a Broadband Blade Monopole Antenna Operating in 30 MHz – 600 MHz Frequency Band

محل انتشار:

بیست و یکمین کنفرانس مهندسی برق ایران (سال: 1392)

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خلاصه مقاله:

In this paper, design and fabrication of a blade monopole antenna operating in 30 MHz – 600 MHz is presented. Blade antennas are preferred antenna structures in airborne applications due to their light weight and aerodynamic shape. Here, the antenna structure is a blade with an oblique edge which shows the improved impedance bandwidth in comparison to a blade antenna with the same total height and no oblique edge. The antenna is matched to a 50 Ω system with $VSWR < 2$ in the range 30 MHz – 600 MHz. The antenna pattern is omnidirectional with the maximum gain (G) of 5.6 dBi at 600 MHz and $G > 0$ dBi in the frequency range 150 MHz – 600 MHz.

کلمات کلیدی:

Airborne antennas, blade monopole, broadband antennas

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