

عنوان مقاله:

A Compact Directional Super-wideband Antenna

محل انتشار:

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خلاصه مقاله:

In this paper, we propose a novel directional super-wideband microstrip antenna based on a simple and new geometry which covers the frequency range of 11 GHz to 200 GHz. Its radiation pattern is approximately steady in the frequency range of 50 GHz to 200 GHz. The antenna consists of a club-like radiating patch, a combination of three circular patches, and a partial ground structure. Moreover, the proposed antenna has a compact volume of $24 \text{ mm} \times 18 \text{ mm} \times 0.787 \text{ mm}$ on a RT Duroid substrate with a relative dielectric constant of 2.2. Antenna design and the simulation results of radiation pattern, and gain are presented and discussed in detail.

کلمات کلیدی:

microstrip antenna; radiation pattern; reflection coefficient; super-wideband

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