

NOVEL INSET FEED MINIATURIZED FRACTAL PATCH ANTENNA FOR WI-FI APPLICATIONS

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ABSTRACT

Fractals are profoundly intricate shapes that are easy to design. These contours are able to add more electrical length in less volume. In this paper, a new approach in designing multi band micro strip patch antenna for Wi-Fi application is introduced. The presented approach is based on applying fractal geometry to a square loop antenna. The proposed antenna has the advantage of low profile, light weight and easy fabrication and is potential for wireless communication modelling and simulation is performed via IE3D and ADS electromagnetic simulator.

KEYWORDS: Fractals - Fractal Antennas - Wi-Fi – Micro Strip Patch, Antenna –Wideband