Abstracts

Improvements in the performance of microstrip antennas on finite ground planes through ground plane edge serrations

G.H. Huff and J.T. Bernhard. "Improvements in the performance of microstrip antennas on finite ground planes through ground plane edge serrations." 2002 Microwave and Wireless Components Letters 12.8 (Aug. 2002 [MWCL]): 308-310.

This paper explores how edge serrations on a truncated ground plane affect the performance of a microstrip antenna. The investigation includes both simulations and measurements of a range of serration dimensions. Improvements in performance through ground plane edge serration include lower cross-polarization level, increased beam width, and slight impedance tuning compared to a microstrip antenna on a simple finite ground plane.

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