

Abstracts

A power and efficiency measurement technique for active patch antennas

E.A. Elkhazmi, N.J. McEwan and N.T. Ali. "A power and efficiency measurement technique for active patch antennas." 2000 Transactions on Microwave Theory and Techniques 48.5 (May 2000 [T-MTT]): 868-870.

In this paper, the power input to the radiating element of an active microstrip patch antenna is measured using a small sensing patch, which is weakly coupled to a radiating edge. Combined with an estimate of patch radiation efficiency, this also yields a measurement of total radiated power. The method has advantages of convenience, insensitivity to room reflections, and a weakly frequency-dependent calibration factor.

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