

Abstracts

A Novel Measurement Technique for Amplifier-Type Active Antennas

H. An, B.K.J.C. Nauwelaers, A.R. Van de Capelle and R.G. Bosisio. "A Novel Measurement Technique for Amplifier-Type Active Antennas." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1473-1476.

A novel technique is proposed for the measurements of the transducer power gain and noise figure of the amplifier embedded in a receiving active antenna, where the direct measurements with traditional techniques are impossible. The bandwidth of the active antenna can be also determined with this technique. The good agreement between the measurements and calculations of a number of active receiving microstrip antennas shows the validity of the measurement technique. This makes it possible to characterize all the performance of receiving active antennas.

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