

Abstracts

A Simple Measurement Technique for Characterizing Active Antennas

H.S. Tsai, S.D. Kent, H. Lee and R.A. York. "A Simple Measurement Technique for Characterizing Active Antennas." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1469-1472.

Testing active antennas or polarimetric radar calibrators in the far-field (plane wave excitation) is complicated by imperfect isolation between transmitting and receiving channels. We describe a far-field reflectometry setup which overcomes this problem. A large dynamic range is achieved by modulating the active element bias and using a quadrature receiver and lock-in detection scheme. Measured results compare favorably with other existing techniques.

[Return to main document.](#)

Click on title for a complete paper.