Abstracts

Calibration of a lens-focused reflectometer by means of a mixed time/frequency domain method

G.L. Fyiedsam and E.M. Biebl. "Calibration of a lens-focused reflectometer by means of a mixed time/frequency domain method." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1873-1876.

A lens-focused reflectometer operating in the 75-95 GHz frequency range for measuring the square of the complex transmission coefficient of planar samples for different angles of incidence and polarization states is presented. The systematic errors of the set-up are reduced by employing a new advanced time/frequency domain calibration method. Experimental results obtained with the lens-focused reflectometer and with a free-space transmission measurement system are in good agreement. The deviation in the magnitude and in the phase of the measured curves are less than 1.0% and 1.0/spl deg/, respectively.

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