

Abstracts

Highly Sensitive Measurements with a Lens-Focused Reflectometer (Dec. 1991 [T-MTT])

D.R. Gagnon. "Highly Sensitive Measurements with a Lens-Focused Reflectometer (Dec. 1991 [T-MTT])." 1991 *Transactions on Microwave Theory and Techniques* 39.12 (Dec. 1991 [T-MTT] (1991 Symposium Issue)): 2237-2240.

A lens-focused microwave reflectometer is described which offers exceptional sensitivity and very wide band-width. The system produces a well confined spot focus and, with the prescribed calibration procedure, gives effective directivity approaching 70 dB. Applications include dielectric constant measurements and scanned imaging of bodies. Precision of ± 1 dB is demonstrated for measurements, in X-band, at the -50 dB level.

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