

Abstracts

High-Power Microwave Diagnostic System Based on Compact, Single-Unit, Radiate-and-Receive Devices

T.A. Treado, R.S. Smith, III, W.O. Doggett and D.J. Jenkins. "High-Power Microwave Diagnostic System Based on Compact, Single-Unit, Radiate-and-Receive Devices." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 875-878.

Two unique S- and C- band waveguide radiate-and-receive systems were developed as multioctave diagnostics and vacuum loads for high power microwave bursts (> 150 MW) emitted from relativistic magnetrons. The compact devices (< 1 m³) did not require an anechoic chamber. The complete HPM diagnostic system is described.

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