

## Millimetre-Wave Vector Measurements Using Multistate Reflectometers with Diode Detectors

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*M. Perkins and R.D. Pollard. "Millimetre-Wave Vector Measurements Using Multistate Reflectometers with Diode Detectors." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1037-1040.*

The use of diode power detection with millimetre-wave multistate reflectometers is described. The nonlinear behaviour of the diodes has been linearised and comparisons with thermistor-based systems show that high quality vector measurements are produced at Q-band and 94.9 GHz with a significant improvement in measurement speed.

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