

Abstracts

Characterization of Diodes in a Coaxial Measurement System

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A method is reported for experimentally characterizing packaged microwave diodes with respect to their outer cylindrical surface. The diode is mounted coaxial with the center conductor of a coaxial line and radial transmission line theory is used to determine the impedance of dummy diode packages used in calibration. The diode equivalent circuit thus developed is suited to the modeling of a diode mounted in a post-in-waveguide mount. Experimental characterization of a varactor diode and of a mixer diode are reported.

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