

Abstracts

A Dual Six-Port Network Analyzer Using Diode Detectors

J.R. Jurosek and C.A. Hoer. "A Dual Six-Port Network Analyzer Using Diode Detectors." 1984 Transactions on Microwave Theory and Techniques 32.1 (Jan. 1984 [T-MTT]): 78-82.

The performance of a dual six-port network analyzer using diode detectors is described. The network analyzer operates over the 2-18-GHz band using commercially available low-barrier Schottky diodes. The paper describes the process for calibrating the diodes for deviation from square law. Measurement results are presented showing the accuracy and precision of the six-port network analyzer when measuring 1-port and 2-port devices. Key work attenuation measurements, automated network analyzer, impedance measurements, microwave network analyzer, network analyzer, and six-port.

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