

Abstracts

A Broad-Band Homodyne Network Analyzer with Binary Phase Modulation (Short Papers)

U. Gartner and B. Schiek. "A Broad-Band Homodyne Network Analyzer with Binary Phase Modulation (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.8 (Aug. 1986 [T-MTT]): 902-906.

An automatic homodyne network analyzer system using cascaded binary phase shifters is described which operates over the full X-band with a high dynamic range due to an auxiliary modulation and linear detection technique. A general analytic solution of the complex nonlinear system equations is given which allows the use of a coupled modulator/phase shifter structure. Measurement results are reported.

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