

# Abstracts

## A Broadband Homodyne Network Analyser with Binary Phase Modulation

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*U. Gartner and B. Schiek. "A Broadband Homodyne Network Analyser with Binary Phase Modulation." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 725-728.*

An automatic homodyne network analyser 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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