

Abstracts

Automatic Measurement of Filter Coupling Parameters

A.E. Williams, R.G. Egri and R.R. Johnson. "Automatic Measurement of Filter Coupling Parameters." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 418-420.

The coupling parameters of a system of high Q coupled cavities, such as a filter, can be determined by measuring the 0° , $\pm 90^\circ$, and $\pm 180^\circ$ phases of the input reflection coefficient. This paper describes a technique to measure these coupling parameters automatically by using an HP-9845B desk-top computer to control a frequency synthesizer, a network analyzer, and a frequency counter.

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