

Abstracts

A Compact Waveguide "Resolver" for the Accurate Measurement of Complex Reflection and Transmission Coefficients Using the 6-Port Measurement Concept

G.P. Riblet. "A Compact Waveguide "Resolver" for the Accurate Measurement of Complex Reflection and Transmission Coefficients Using the 6-Port Measurement Concept." 1981 Transactions on Microwave Theory and Techniques 29.2 (Feb. 1981 [T-MTT]): 155-162.

The theory of an optimum 5-port network for measuring complex reflection and transmission coefficients is developed. A compact realization in waveguide is described which allows these quantities to be determined over waveguide bandwidths from the measurements of two referenced power levels.

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