Abstracts

Using an Arbitrary Six-Port Junction to Measure Complex Voltage Ratios (Dec. 1975 [T-MTT])

C.A. Hoer and K.C. Roe. "Using an Arbitrary Six-Port Junction to Measure Complex Voltage Ratios (Dec. 1975 [T-MTT])." 1975 Transactions on Microwave Theory and Techniques 23.12 (Dec. 1975 [T-MTT] (1975 Symposium Issue)): 978-984.

An arbitrary six-port junction is analyzed as a microwave vector voltmeter, measuring the amplitudes and phase differences of two input signals in terms of power readings taken at the remaining four ports. The junction may be calibrated for measuring the complex ratio of these two signals using a self-calibration procedure which requires no attenuation or phase standards.

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