

Abstracts

Mode Analysis in Multimode Waveguides Using Voltage Traveling Wave Ratios

D.S. Stone. "Mode Analysis in Multimode Waveguides Using Voltage Traveling Wave Ratios." 1981 *Transactions on Microwave Theory and Techniques* 29.2 (Feb. 1981 [T-MTT]): 91-95.

The voltage traveling wave ratio (VTWR) equations are discussed in general and the specific case of guided traveling waves in multimode circular waveguides is addressed in detail. An experimental technique for measuring VTWR's is described and sample experimental results are analyzed. Measurements of the VTWR's can be easily related to the fractions of total power propagating in each waveguide mode. This information may be used, for example, to examine the mode conversion properties of multimode waveguide components.

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