

Abstracts

Determining Adapter Efficiency by Envelope Averaging Swept Frequency Reflection Data (Short Papers)

W.C. Daywitt. "Determining Adapter Efficiency by Envelope Averaging Swept Frequency Reflection Data (Short Papers)." 1990 *Transactions on Microwave Theory and Techniques* 38.11 (Nov. 1990 [T-MTT]): 1748-1752.

A simple automated network analyzer swept frequency technique for measuring adapter efficiency across its entire frequency band is described. Envelope averaging is used to avoid the model assumptions usually found in regression averaging techniques. Calculations show that errors arising from the theoretical assumptions leading to the technique are around 0.004 dB for a common WR 42 waveguide-to-coaxial adapter.

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