

Abstracts

The Locus of Points of Constant VSWR When Renormalized to a Different Characteristic Impedance (Letters)

J.A.G. Malherbe. "The Locus of Points of Constant VSWR When Renormalized to a Different Characteristic Impedance (Letters)." 1977 Transactions on Microwave Theory and Techniques 25.5 (May 1977 [T-MTT]): 444-445.

The locus of points of constant VSWR with respect to an impedance $Z_{\text{sub } 1}$, when measured with equipment of characteristic impedance $Z_{\text{sub } 0}$, other than $Z_{\text{sub } 1}$, is found to be a circle that is easily constructed on a Smith chart. The use of a transparent overlay with various such circles converts any network analyzer with a Smith chart display to read swept VSWR values to the new impedance.

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