Abstracts

Still Another Method For Transforming Impedances Through Lossless Networks (Correspondence)

H.F. Mathis. "Still Another Method For Transforming Impedances Through Lossless Networks (Correspondence)." 1963 Transactions on Microwave Theory and Techniques 11.3 (May 1963 [T-MTT]): 213-214.

The input impedance Z/sub A/ and the terminating impedance Z/sub L/ of a symmetrical lossless four-terminal network are related by an equation which contains only one additional parameter; namely, the input impedance Z/sub 1 when the network is terminated in any known resistance R/sub 0/. Let Gamma/sub A/ = (Z/sub A/ - R/sub0/)/(Z/sub L/ + R/sub 0/), Gamma/sub L/ = (Z/sub L/ - R/sub 0/)/(Z/sub L/ + R/sub 0/), Gamma/sub 1/ = (Z/sub 1/ - R/sub 0/)/(Z/sub 1/ + R/sub 0/), and the superscript "*" denote the conjugate.

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