Abstracts

The Analogy Between the Weiss-floch Transformer and the Ideal Attenuator (Reflection Coefficient Transformer) and an Extension to Include the General Lossy Two-Port (Correspondence)

D.J.R. Stock and L.J. Kaplan. "The Analogy Between the Weiss-floch Transformer and the Ideal Attenuator (Reflection Coefficient Transformer) and an Extension to Include the General Lossy Two-Port (Correspondence)." 1959 Transactions on Microwave Theory and Techniques 7.4 (Oct. 1959 [T-MTT]): 473-474.

Weissfloch's transformer theorem states that at certain pairs of reference planes a lossless two-port can be represented by an ideal transformer. There are many proofs of this important theorem. One of the most interesting is due to Bolinder, who uses properties of the bilinear transformation. For lossless two-ports, the transformations will belong to the Fuchsian group.

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