Abstracts

A Transformer Cascade, Optimally Matched to a Conductance Shunted by a Stub, Exhibiting Reflection Coefficient Zeros (Letters)

H.J. Riblet. "A Transformer Cascade, Optimally Matched to a Conductance Shunted by a Stub, Exhibiting Reflection Coefficient Zeros (Letters)." 1976 Transactions on Microwave Theory and Techniques 24.1 (Jan. 1976 [T-MTT]): 65-66.

A class of transmission-line networks is exhibited, which consist of alternate quarter-wave line sections and short-circuited stubs terminated in a stub in parallel with a conductance, which are optimum in the sense that no other network of the same form, with the same termination, can have a lower bound on its reflection coefficient in the design band. The reflection coefficients of these optimum networks are equiripple and have the maximum number of zeros in the design band consistent with their length.

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