

Abstracts

A Novel Approach to the Synthesis of Mixed Lumped and Distributed Lossy Networks

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In this paper, a general lossy transformation technique (LTT) is proposed for solving the problem of synthesis of mixed lumped and distributed (MLD) lossy networks. The elements, of which the MLD lossy networks are composed can have arbitrary frequency-dependent losses. A computer-aided design example is presented to show the application of the new LTT of the design of a monolithic microwave integrated broadband FET amplifier with MLD lossy circuits as matching networks.

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