

Abstracts

Real Frequency Technique Applied to Synthesis of Lumped Broadband Matching Networks with Arbitrary Nonuniform Losses for MMIC's (1988 Vol. II [MWSYM])

L. Zhu, B. Wu and C. Sheng. "Real Frequency Technique Applied to Synthesis of Lumped Broadband Matching Networks with Arbitrary Nonuniform Losses for MMIC's (1988 Vol. II [MWSYM])." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 555-558.

A new computer-aided synthesis technique is presented in this paper for treating the synthesis of lumped matching networks with arbitrary nonuniform losses. It is especially applicable to the design of the broadband amplifiers in MMIC's. A new useful theorem and corollary are developed for the transformation between lossy or lossless network and lossless one, so that the design of the lossy matching networks is quite simplified and it can yield any complex models of the lumped elements with arbitrary nonuniform losses than that of Ref. (1). An example is given to show the general applications of the new method in the monolithic broadband amplifier design.

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