

Abstracts

Computer-Aided Synthesis of Lossy Commensurate Line Network and its Application

L. Zhu and C. Sheng. "Computer-Aided Synthesis of Lossy Commensurate Line Network and its Application." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 339-342.

In this paper, a useful theorem which extends the technique introduced in [1] to even wide fields is proposed for transformation between distributed lossy and lumped lossless networks. A computer-aided approach is developed to the synthesis of lossy commensurate line network with all lines being of frequency dependent loss. As an application, one-stage broad-band amplifier is designed for monolithic microwave integrated circuits (MMIC's) and its performance is compared with the example in [2].

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