

Abstracts

Improved Device Modeling for Matching Network Synthesis

M.W. Medley, Jr. and J.L. Allen. "Improved Device Modeling for Matching Network Synthesis." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 350-352.

A new technique is presented for determining equivalent source and load device models applicable to GaAs FET or other devices for which measured data is available. The new technique provides a more accurate starting point for matching network synthesis, better prediction of achievable circuit performance, and does not require the unilateral device assumption. Simple computer optimization and elements with negative reactance slope parameters are utilized. A description of the method and an example of its application to GaAs FET amplifier design is presented.

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