Abstracts

Computer-Aided Design of Broad-Band Amplifiers with Complex Loads

T.N. Trick and J. Vlach. "Computer-Aided Design of Broad-Band Amplifiers with Complex Loads." 1970 Transactions on Microwave Theory and Techniques 18.9 (Sep. 1970 [T-MTT]): 541-547.

A computer-aided design approach is developed for the analysis and design of broad-band amplifiers with complex terminations, e.g., an antenna. The transfer scattering parameters are used for the analysis of a cascade connection of distributed lines and amplifiers. A modified version of Rosenbrock's minimization procedure is used to find the optimum lengths and characteristic impedances of the lines which minimize the reflection losses and realize a desired gain characteristic. Several examples are given.

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