

Abstracts

Microwave Circuit Design by Digital Computer

M.A. Murray-Lasso and E.B. Kozemchak. "Microwave Circuit Design by Digital Computer." 1969 Transactions on Microwave Theory and Techniques 17.8 (Aug. 1969 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 514-526.

Methods for the automatic analysis and design of microwave circuits using a digital computer in batch mode are given. The methods are capable of handling microwave components modeled by ordinary R, L, C, M, CS elements pins transmission lines and multiterminal black-boxes whose characteristics have been determined theoretically or experimentally. The analysis-optimization program, IMPROVE (Integrated and Microwave PRogram for Optimizing Variable Elements), implementing the methods presented in this paper is described and its use illustrated with a practical design problem.

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