

Abstracts

Computer-Aided Design of Millimeter-Wave E-Plane Filters (Feb. 1983 [T-MTT])

Y.-C. Shih, T. Itoh and L. Q. Bui. "Computer-Aided Design of Millimeter-Wave E-Plane Filters (Feb. 1983 [T-MTT])." 1983 Transactions on Microwave Theory and Techniques 31.2 (Feb. 1983 [T-MTT] (Special Issue on Millimeter-Waves)): 135-142.

A computer-aided design (CAD) algorithm has been developed for a class of E-plane bandpass filters. The analysis portion of the algorithm is based on the residue-calculus technique and a generalized scattering parameter method. It is mathematically exact and numerically very efficient. Filters designed with this method have been fabricated and tested in Ku-band. Good agreement with design has been obtained.

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