

Abstracts

Synthesis of Low-Reflection Waveguide Joint Systems

P. Foldes and N. Gothard. "Synthesis of Low-Reflection Waveguide Joint Systems." 1961 Transactions on Microwave Theory and Techniques 9.2 (Mar. 1961 [T-MTT]): 169-175.

Some characteristics of flat-flange type joints are analyzed. Experimental evidence is given proving that it is possible to reproduce, in practice, waveguide joints which have identical complex-reflection coefficients. Such joints can be combined to form large joint systems by means of a synthesis method, which keeps the over-all reflection coefficient to a minimum. Both theory and experimental data are presented.

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