

# Abstracts

## The Design of Discrete N-Section and Continuously Tapered Symmetrical Microwave TEM Directional Couplers

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*D.W. Kammler. "The Design of Discrete N-Section and Continuously Tapered Symmetrical Microwave TEM Directional Couplers." 1969 Transactions on Microwave Theory and Techniques 17.8 (Aug. 1969 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 577-590.*

A method is presented for the computer-aided design of either N-section discrete or continuously tapered symmetrical microwave couplers. The coupling distribution function  $k(x)$  is parametrized in the form  $k(x, p/\text{spl ovbr/})$ , and a special optimization process (of the generalized Remez type) is used to determine the set of parameters  $p/\text{spl ovbr/}$  which produce an optimum power coupling response. Standard parametric forms based on an approximate Fourier analysis as well as more general spline parametric forms for  $k(x, p/\text{spl ovbr/})$  are developed and illustrated.

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