

Abstracts

On the Design of Optimum Dual-Series Feed Networks

W.R. Jones and E.C. DuFort. "On the Design of Optimum Dual-Series Feed Networks." 1971 Transactions on Microwave Theory and Techniques 19.5 (May 1971 [T-MTT]): 451-458.

A computer-implemented procedure is presented for the design of optimally efficient dual-series feed networks for use in waveguide phased arrays where the network directional couplers are limited in their values of maximum coupling by geometrical and bandwidth requirements. The theory of the design procedure is outlined and results for the design of sum and difference pattern element excitations for typical coupler limitations are presented.

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