

Abstracts

Experimental Study of Multihole Directional Couplers Providing a Rippled Response (Short Papers)

D.L. Swartzlander and R.S. Elliott. "Experimental Study of Multihole Directional Couplers Providing a Rippled Response (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.9 (Sep. 1992 [T-MTT]): 1843-1846.

The directivity versus frequency of a multihole waveguide coupler may be expressed as a polynomial whose complex roots, if placed off the unit circle, provide the opportunity of a rippled response. Two designs using seven equispaced holes, one each with 3.0 and 0.5 dB ripple, were implemented at X-band and experimental validation of the theory has been excellent.

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