

Abstracts

On High-Pass Transmission-Line Directional Couplers (Correspondence)

S.C. Dutta Roy. "On High-Pass Transmission-Line Directional Couplers (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.7 (Jul. 1969 [T-MTT]): 400-400.

It is shown that in a loosely coupled transmission line directional coupler, a continuously tapered coupling factor having a nonzero finite value everywhere along the longitudinal direction and having continuous derivatives gives high-pass coupling with approximately equal ripple characteristic at high values of frequency. The exponential and cosine types of nonuniformities are considered as examples to illustrate the theory.

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