

Abstracts

The Design of Directional Couplers Using Exponential Lines in Inhomogeneous Media

M.I. Sobhy and E.A. Hosny. "The Design of Directional Couplers Using Exponential Lines in Inhomogeneous Media." 1982 Transactions on Microwave Theory and Techniques 30.1 (Jan. 1982 [T-MTT]): 71-76.

Coupled exponential transmission lines in inhomogeneous media are analyzed and an accurate solution is obtained. The solution is used to design microwave directional couplers. The designed couplers have much improved coupling characteristics compared with couplers using uniform lines. Practical measurements show very good agreement with theoretical results.

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