Abstracts

Three-Port Hybrid Power Dividers Terminated in Complex Frequency-Dependent Impedances (Short Papers)

S. Rosloniec. "Three-Port Hybrid Power Dividers Terminated in Complex Frequency-Dependent Impedances (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.8 (Aug. 1996 [T-MTT]): 1490-1493.

A new CAD algorithm for design of two- and four-section three-port hybrid power dividers terminated with complex frequency-dependent impedances is described. The dividers under consideration are composed of lumped element resistors and noncommensurate transmission line sections whose characteristic impedances take extreme, practically realizable, values. These values are assumed freely at the beginning of a design process. The validity of the presented design algorithm has been confirmed by numerical modeling and experimentation.

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