

Abstracts

Hybrid Branchline Couplers -- A Useful New Class of Directional Couplers

B. Schiek. "Hybrid Branchline Couplers -- A Useful New Class of Directional Couplers." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 864-869.

The hybrid branchline coupler consists of two transmission lines connected alternately by $\lambda/4$ shunt and series branches. The analysis of this structure leads to a class of directional couplers of which the parallel transmission-line and the de Ronde strip-slot types may be regarded as special cases. From the precise design data thus available, a number of 3-dB strip-slot couplers have been built in C band and X band with a performance close to the predicted one.

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