

Abstracts

Zolotarev Branch-Guide Couplers

R. Levy. "Zolotarev Branch-Guide Couplers." 1973 Transactions on Microwave Theory and Techniques 21.2 (Feb. 1973 [T-MTT]): 95-99.

A new theory for the design of branch-guide couplers, which enables the designer to optimize the internal impedance level, is presented. This overcomes previous difficulties associated with design of branch-guide couplers for tight-coupling values. Results are demonstrated for couplings as tight as 1.5 dB and give exact agreement between computer predictions and measured results. The theory was used to design a complex matched power divider employing many branch-guide couplers of 14 different coupling values and gave practical results in close agreement with theory.

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