

Abstracts

Analysis and Design of Full-Band Matched Waveguide Bends

M. Mongiardo, A. Morini and T. Rozzi. "Analysis and Design of Full-Band Matched Waveguide Bends." 1995 Transactions on Microwave Theory and Techniques 43.12 (Dec. 1995, Part II [T-MTT] (1995 Symposium Issue)): 2964-2970.

Compact waveguide bends with low return loss over the full waveguide band width are realized by placing properly selected discontinuities inside the curve. The component is designed by using an extremely efficient computer code which employs the local modes approach to analyze curved sections, while discontinuities are rigorously accounted for by considering their multimode equivalent circuit. A simple technique to select the appropriate matching elements is described and examples of full-band matched bends are provided.

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