Abstracts

Analysis and Design of Wide-Band Matched Waveguide Bends Including Discontinuities

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Waveguide bends with small radii of curvature are realized by using properly selected discontinuities which, placed inside the curve, allow low return losses to be achieved over large bandwidths. The component is designed by using an efficient computer code which employs the local modes approach to analyze curved sections, while discontinuities are rigorously accounted for by considering their accessible modes. Theoretical simulations are compared with experimental results showing very good accuracy.

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