Abstracts

Systematic Analysis Method of E- and H-Plane Circular Bend of Rectangular Waveguide Based on the Planar Circuit Equations and Equivalent Network Representation

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E- and H-plane circular bends of the rectangular waveguide, shown in Table 1(A), are very familiar waveguide components. So far, many works have been done for the analysis of this structure, but their results are practically limited for the gradual bend case only. Therefore, wide-band frequency characteristics with wide range of bend parameters (=bend angle and curvature*) including sharp bend are still not clear, but are needed for the future microwave integrated circuit design. This paper solves these problems by the following procedure.

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