

Complex Propagation Constants of Bent Hollow Waveguides with Arbitrary Cross Section

M. Miyagi. "Complex Propagation Constants of Bent Hollow Waveguides with Arbitrary Cross Section." 1985 Transactions on Microwave Theory and Techniques 33.1 (Jan. 1985 [T-MTT]): 15-19.

An integral representation of the complex propagation constant has been derived from Maxwell's equations for cylindrical, hollow, bent, oversized waveguides with uniform curvature and with arbitrary cross sections. The method makes the calculations much simpler than the conventional method, i.e., the characteristic-equation method, although it has not yet been tried for three-dimensional bent waveguides.

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