

Equivalent Circuits of Junctions of Slab-Loaded Rectangular Waveguides

A. T. Villeneuve. "Equivalent Circuits of Junctions of Slab-Loaded Rectangular Waveguides." 1985 *Transactions on Microwave Theory and Techniques* 33.11 (Nov. 1985 [T-MTT]): 1196-1203.

Equivalent-circuit parameters are calculated for junctions of dielectrically loaded rectangular waveguides. The loading takes the form of axial slabs consisting of dielectric sandwich structures. Two different forms of the equivalent circuit are considered. One form, which consists of an ideal transformer between two sections of transmission line, appears to be the most natural for these junctions. A number of examples are given.

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