Abstracts

Continuous Spectrum of a Flange-Backed Slotted Waveguide with Application

T. Rozzi and M. Mongiardo. "Continuous Spectrum of a Flange-Backed Slotted Waveguide with Application." 1992 Transactions on Microwave Theory and Techniques 40.11 (Nov. 1992 [T-MTT]): 2042-2049.

The continuum of an open waveguide describes radiation as simply, in principle, as the discrete spectrum of a classical guide describes any physical field in it. This part of the spectrum, however, has received little attention for guides of nonseparable two-dimensional cross-sections. To illustrate its derivation, in this contribution we establish the continuum of a flange-backed rectangular waveguide slotted on its narrow wall. As a demonstration for its use, we determine the transmission and radiation properties of the junction between an ordinary and slotted guide.

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