Abstracts

Analysis of the Scattering Mechanism in an Abruptly Ended Rod Dielectric Waveguide. Application to the Determination of the Characteristics of Dielectric Resonators

P. Gelin, M. Petenzi, P. Kennis and J. Citerne. "Analysis of the Scattering Mechanism in an Abruptly Ended Rod Dielectric Waveguide. Application to the Determination of the Characteristics of Dielectric Resonators." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 220-222.

The scattering mechanism of the magnetic dipolar mode TE/sub 10/ incident in an abruptly ended rod dielectric waveguide is analysed by means of a novel integral formulation. The accurate numerical solution is obtained from an iterative procedure based on successive scattering approximation. In the second part of this paper, we applied the previous results to determine the characteristics of circular dielectric resonators.

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