

Abstracts

CAD of triple-mode cavities in rectangular waveguide

G. Lastoria, G. Gerini, M. Guglielmi and F. Emma. "CAD of triple-mode cavities in rectangular waveguide." 1998 Microwave and Guided Wave Letters 8.10 (Oct. 1998 [MGWL]): 339-341.

In this paper describe a very simple cavity structure which can be used as the basic building block for the computer-aided design (CAD) of triple-mode filters in rectangular waveguide. The input output ports are standard rectangular waveguides with a common longitudinal axis. The proposed configuration is geometrically simple and exhibits the very important feature of being amenable to a rigorous electromagnetic simulation. As an application example, a three-pole filter is demonstrated thereby fully validating the configuration proposed.

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