

Abstracts

Cutoff frequencies of an asymmetrically loaded cylindrical waveguide

Tat Soon Yeo. "Cutoff frequencies of an asymmetrically loaded cylindrical waveguide." 1998 *Transactions on Microwave Theory and Techniques* 46.9 (Sep. 1998 [T-MTT]): 1331-1334.

The cutoff characteristics of an asymmetrically loaded cylindrical waveguide are analyzed using the null-field method. The fields in the metallic waveguide and dielectric loading are expressed in their corresponding guided-wave modes. The addition theorem of the Bessel function is used to relate the fields across the air-dielectric boundary.

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