

Abstracts

Field and Power Density Distributions of the Dipolar Modes in a Partially Filled Cylindrical Plasma Waveguide (Short Papers)

G.L. Yip and S. Le-Ngoc. "Field and Power Density Distributions of the Dipolar Modes in a Partially Filled Cylindrical Plasma Waveguide (Short Papers)." 1977 *Transactions on Microwave Theory and Techniques* 25.1 (Jan. 1977 [T-MTT]): 65-70.

The field and power density distributions for the dipolar modes in a partially filled plasma waveguide have been studied at operating points in the vicinity of the plasma, the surface wave, and the gyro resonant frequencies. Results of both the quasi-static and exact analyses are presented. From the field distributions, the behavior of electrons at each resonance is clearly explained.

 [Return to main document.](#)