Abstracts

Integral Quotient in Measurements of Ambipolar Diffused Plasma with TE/sub 011/ Cavity (Correspondence)

P. Jaaskelainen. "Integral Quotient in Measurements of Ambipolar Diffused Plasma with TE/sub 011/ Cavity (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.5 (Sep. 1964 [T-MTT]): 552-552.

Despite some known exact solutions of plasma loaded TM/010/ cavity, the TE/sub 011/ mode should be used due to measurement-technical reaons in the case of large electron densities and considerable losses. This communication is connected with the mathematical treatment of measurement results in the case of TE/sub 011/ mode and polar diffusion in discharge tube. The treatment is based on SIater's expression for discharge admittance and the assumption of small perturbations, but not on any special electron theoretically derived plasma conductivity formula.

❑ Return to main document.