Abstracts

Properties and Applications of the TM/sub 11/ Mode in Cylindrical Disk-Loaded Waveguide

O.H. Altenmueller, R.R. Larsen and G.A. Loew. "Properties and Applications of the TM/sub 11/ Mode in Cylindrical Disk-Loaded Waveguide." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 38-41.

Several laboratories in Europe and the United States have recently become interested in the TM/sub 11/ mode in cylindrical disk-loaded waveguide. This interest has been stimulated by the realization that the TM/sub 11/ mode exhibits interesting and useful properties when made to interact with charged particle beams. Whereas the TM/sub 01/ mode in cylindrical disk-loaded waveguide has been used for years to give cumulative longitudinal interaction with an electron beam, as, for example, in traveling-wave tubes or linear accelerators, the TM/sub 11/ mode is found to exert a transverse force on particles traveling along the direction of propagation.

❑ Return to main document.