

Abstracts

Mode Coupling and Power Transfer in a Coaxial Sector Waveguide with a Sector Angle Taper (1980 [MWSYM])

A.W. Fliflet, L.R. Barnett and J.M. Baird. "Mode Coupling and Power Transfer in a Coaxial Sector Waveguide with a Sector Angle Taper (1980 [MWSYM])." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 93-95.

We report a theoretical study of mode coupling and power transfer in a coaxial sector taper. The power transferred from the TE₀₁ mode into other low lying modes is calculated as a function of taper length and operating frequency. This type waveguide taper is utilized to feed a wide band input coupler for a 35 GHz Gyrotron Traveling Wave Amplifier.

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