Abstracts

Modal cutoff in coaxial transmission lines of conical and cylindrical geometries

C.M. Weil, B.F. Riddle, D.R. Novotny and R.T. Johnk. "Modal cutoff in coaxial transmission lines of conical and cylindrical geometries." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1229-1232 vol.2.

We present numerical data on normalized cutoff wavelength versus cone half-angle for the first three higher-order TE/sub m1/ modes, as well as four other modes of interest, in conical coaxial transmission lines (the "co-conical" line). These are given as a function of the ratio of outer-to-inner cone half-angles (proportional to line impedance) for outer cone half-angles of 10 and 22.5 degrees. Results were compared to those for the coaxial transmission line of cylindrical geometry and found to be qualitatively similar.

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