

Abstracts

Calculation of TM_{0n} Dispersion Relations in a Corrugated Cylindrical Waveguide

A. Bromborsky and B. Ruth. "Calculation of TM_{0n} Dispersion Relations in a Corrugated Cylindrical Waveguide." 1984 *Transactions on Microwave Theory and Techniques* 32.6 (Jun. 1984 [T-MTT]): 600-605.

The TM_{0n}-mode Maxwell equations in a cylindrical geometry are converted to a state-vector system of coupled linear differential equations, in which the boundary conditions for a waveguide of varying diameter are included in the coefficient matrix of the state-vector system. The particular problem of periodic boundary conditions is solved for a waveguide with a sinusoidally undulating wall.

[Return to main document.](#)

Click on title for a complete paper.