

Abstracts

Numerical Solution of Surface Waveguide Modes Using Transverse Field Components (Short Papers)

C.G. Williams and G.K. Cambrell. "Numerical Solution of Surface Waveguide Modes Using Transverse Field Components (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.3 (Mar. 1974 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 329-330.

The computation of surface waveguide modes is facilitated by reducing the surface waveguide field problem to a conventional eigenvalue problem that has no spurious solutions. This is achieved by formulating the field problem in terms of transverse field components and by using impedance boundary conditions on an auxiliary boundary with a specified value of the exterior cutoff wavenumber.

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