

Abstracts

Electromagnetic Fields in an Axial Symmetric Waveguide with Variable Cross Section

S.A. Kheifets. *"Electromagnetic Fields in an Axial Symmetric Waveguide with Variable Cross Section."* 1981 *Transactions on Microwave Theory and Techniques* 29.3 (Mar. 1981 [T-MTT]): 222-229.

A new class of separable variables is found which allows one to find an approximate analytical solution of the Maxwell equations for axial symmetric waveguides with slow (but not necessarily small) varying boundary surfaces. Two examples of the solution are given. Possible applications and limitations of this approach are discussed.

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