Abstracts

The Resistive Bifurcated Parallel-Plate Waveguide

The guided-wave problem of a parallel-plate region with a bifurcated resistive sheet of finite length is solved. After the space has been divided into three regions the series solutions in them are matched across the boundaries. Then, the eigenequation is used to determine the propagation and four sets of equations are solved for the unknown coefficients. The series solutions converge rapidly and are readily applied to obtain conditions of maximum absorption.

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