Abstract

A simple method is presented to obtain S-parameters of two dimensional dielectric waveguide corner distorted by discontinuities. We can analyze by using three different cases are considered: Length of the waveguide remains same on both axes (x and y axis), changing the length in x-axis and y-axis directions. S-parameters can compute by using integral expressions of S11 and S12 can be derived from FEM solution of two dimensional Helmholtz equation and numerical results are tabulated and compared.

References


Index Terms

Computer Science

Applied Sciences
Keywords

Waveguide Discontinuities  Finite Element Method (fem)  Scattering Matrix  Two Dimensional Helmholtz Equations.