

Abstracts

Analysis of 3-D cylindrical structures using the finite difference time domain method

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Recently, there has been a growing interest in using cylindrical transmission line structures in microwave applications. In this paper, the Finite Difference Time Domain (FDTD) method is used to characterize and dimensional cylindrical coplanar waveguide (CCPW) geometries. Specifically, a CCPW series stub and a three-section CCPW filter are studied theoretically and experimentally. Absorbing boundary conditions are employed to truncate the mesh at the end walls and the outer radial boundary.

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