

# Abstracts

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

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*N. Dib, T. Weller and M. Scardelletti. "Analysis of 3-D cylindrical structures using the finite difference time domain method." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 925-928.*

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.

 [Return to main document.](#)