

Abstracts

Characterization of Sub-mm-Wave Dielectric Waveguide Directional Coupler Using the FDTD Method

N. Dib and L. Katehi. "Characterization of Sub-mm-Wave Dielectric Waveguide Directional Coupler Using the FDTD Method." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 297-300.

Sub-mm/THz monolithic circuit components made of layered dielectric waveguide are characterized using the Finite Difference Time Domain (FDTD) technique. The use of FDTD analysis allows for the characterization of these components in a very wide frequency range. Numerical results for a sub-mm wave distributed directional coupler are presented and compared to the response of an ideal coupler.

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