

Abstracts

Finite-difference time-domain analysis of a stripline disc junction circulator

B.S. Yildirim and E.-B. El-Sharawy. "Finite-difference time-domain analysis of a stripline disc junction circulator." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 629-632.

In this paper, a finite-difference time-domain (FDTD) analysis of a stripline disc junction circulator is presented. Magnetic fields inside the finite-size ferrite disks are calculated using special updating equations derived from the equation of motion of the magnetization vector and Maxwell's curl equations in consistency. Frequency dependent circulator parameters are calculated over a wide band of frequencies with a single FDTD run.

[Return to main document.](#)