Abstracts

FDTD study of resonance processes in microstrip ring resonators with different excitation geometries

E. Semouchkina, Wenwu Cao and R. Mittra. "FDTD study of resonance processes in microstrip ring resonators with different excitation geometries." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2055-2058 vol.3.

The Finite Difference Time Domain (FDTD) method is employed in this paper to study resonance processes in microstrip ring resonators in both time and frequency domains. It is shown that the geometry of the excitation strongly affects wave propagation and standing wave formation in the structures; in particular, it causes resonance mode splitting in side-coupled ring resonators.

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