

# Abstracts

## Scattering Characteristics of Rectangular Coaxial Line Branching Directional Coupler

---

S. Xu, X. Wu, W. Guo and Z. Li. "Scattering Characteristics of Rectangular Coaxial Line Branching Directional Coupler." 1993 *Microwave and Guided Wave Letters* 3.1 (Jan. 1993 [MGWL]): 6-8.

The scattering characteristics of rectangular coaxial line branching directional coupler are investigated by an accurate approach, which combines the finite-element method with rigorous mode matching procedure. The impedance transform technique of the multimode network theory is used in the mode matching treatment so that the whole analysis of the 3-D discontinuity problem is significantly simplified. The accuracy and effectiveness of the present method are verified by experimental data.

[Return to main document.](#)