Abstract

This paper presents the complete analysis, design of microwave Parallel coupler using synthesis approach and Branch Line Coupler which has been fabricated using FR-4 PCB substrate material and tested in the lab environment successfully. The design of all above components is done using the IE3D simulation tool and tested its S-Parameter results with Vector Network Simulator (VNA). The design parameters with respect to the IE3D structures of the physical dimensions are optimized successfully using Matlab.


Index Terms

Computer Science
Circuits And Systems

Keywords
Branch Line Coupler (blc); Fr-4 Substrate; Ie3d Tool; Parallel Coupler; Vector Network Simulator (vna)