

Abstracts

The Design and Construction of Broadband, High-Directivity 90° Couplers Using Non-Uniform Line Techniques (1966 [MWSYM])

C.P. Tresselt. "The Design and Construction of Broadband, High-Directivity 90° Couplers Using Non-Uniform Line Techniques (1966 [MWSYM])." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 120-125.

It is presently possible to obtain multi-octave bandwidth from a single coupler which employs several cascaded quarter-wavelength sections of uniformly-coupled line. A comprehensive bibliography covering progress in this field may be found in Reference 1. Unfortunately, the physical junctions between various quarter-wave sections in the usually employed TEM conductor geometries contribute reactive discontinuities which significantly degrade coupler directivity.

[Return to main document.](#)