

Abstracts

Accurate Design of Microstrip Directional Couplers with Capacitive Compensation

M. Dydyk. "Accurate Design of Microstrip Directional Couplers with Capacitive Compensation." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 581-584.

This paper presents an accurate design of microstrip directional couplers with high directivity using capacitive compensation. The method utilizes symmetry analysis and equivalency principals to develop closed form solutions of the compensating capacitance and a new odd mode characteristic impedance necessary to realize an ideal microstrip directional coupler. The design approach is valid for any degree of coupling thereby overcoming limitations of previous approaches to this design concept.

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