Abstracts

Improved design for symmetrical six-port microstrip coupler (based on double-ring-with-star topology)

S.P. Yeo, B. Tan and E.H. Kwek. "Improved design for symmetrical six-port microstrip coupler (based on double-ring-with-star topology)." 2000 Transactions on Microwave Theory and Techniques 48.6 (Jun. 2000 [T-MTT] (Mini-Special Issue on the 1999 IEEE Radio and Wireless Conference (RAWCON))): 1074-1077.

Other researchers have designed a symmetrical six-port microstrip coupler that yields a bandwidth of 7%. It has been found in this paper that a change of the design topology allows the coupler's bandwidth to be increased. A simple-to use computer model of the double-ring-with-star prototype has also been developed and tests have confirmed that good agreement can be expected between the predicted and measured results.

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