# Abstracts

## Quasi-ideal multilayer two- and three-strip directional couplers for monolithic and hybrid MICs

*K. Sachse and A. Sawicki. "Quasi-ideal multilayer two- and three-strip directional couplers for monolithic and hybrid MICs." 1999 Transactions on Microwave Theory and Techniques 47.9 (Sep. 1999, Part II [T-MTT] (Special Issue on Multilayer Microwave Circuits)): 1873-1882.*

In this paper, the properties of multilayer two- and three-strip asymmetric coupled lines are described using their coupled-mode parameters. Examples of quasi-ideal, microstrip, and coplanar directional couplers designed in monolithic and hybrid microwave integrated-circuit technology, consisting of various layered structures of bilevel and trilevel coupled lines, are presented together with experimental results for two 3-dB couplers on ceramic-filled polytetrafluoroethylene and polyimide laminates.

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