

# Abstracts

## Asymmetric four-port and branch-line hybrids

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Hee-Ran Ahn and I. Wolff. "Asymmetric four-port and branch-line hybrids." 2000 *Transactions on Microwave Theory and Techniques* 48.9 (Sep. 2000 [T-MTT] (Mini-Special Issue on Research Reported at the 8th Topical Meeting on Electrical Performance of Electronic Packaging (EPEP) 1999)): 1585-1588.

Two different asymmetric branch-line hybrids, a conventional-direction asymmetric branch-line hybrid (CABH) and an anti-conventional-direction asymmetric branch-line hybrid (AABH) are discussed and their design equations are derived. On the basis of the derived design equations, a uniplanar CABH was fabricated with coplanar waveguide (CPW) technology and measured.

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