

# Abstracts

## Novel Monolithic Ultra-Wideband Unilateral 4-Port Junction Using Distributed Amplification Techniques (1992 Vol. II [MWSYM])

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*I.D. Robertson and A.H. Aghvami. "Novel Monolithic Ultra-Wideband Unilateral 4-Port Junction Using Distributed Amplification Techniques (1992 Vol. II [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1051-1054.*

A novel active unilateral 4-port junction operating over 1 to 20 GHz has been demonstrated in MMIC technology, using distributed amplifier techniques. The circuit has unique unilateral characteristics with a relatively constant insertion loss and high isolation, and could replace isolators, circulators and directional couplers in many ultra-wideband applications.

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