

Abstracts

Performance Capabilities of the Ring Network Circulator for Integrated Circuits

J.A. Weiss and G.F. Dionne. "Performance Capabilities of the Ring Network Circulator for Integrated Circuits." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 725-728.

The theoretical model of a ring network junction circulator introduced in 1965 is re-examined and further elaborated, in view of its prospects for compatibility with accomplished and anticipated advances in microcircuit technology. Following a brief review of the theory, solutions are presented to illustrate the potential for novel, efficient designs with options including miniature, self-magnetized, reversible, broadband, superconducting, or other advantageous characteristics. New experimental models are showing good conformance to theoretical predictions for this promising alternative circulator design concept.

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