

# Abstracts

## Theory of 4-Port Nonreciprocal Circuit -- Filter and Circulator

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*M. Igarashi and Y. Naito. "Theory of 4-Port Nonreciprocal Circuit -- Filter and Circulator." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 296-298.*

The general formula for 4-port nonreciprocal circuit is given. The effects of structures and physical properties of resonator on the characteristics of the circuit are investigated. The limitations of available frequency range are clarified.

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