

Abstracts

A Higher Order Approximation for Waveguide Circulators (Short Papers)

J.B. Castillo and L.E. Davis. "A Higher Order Approximation for Waveguide Circulators (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.6 (Jun. 1972 [T-MTT]): 410-412.

Earlier work on the analysis and experimental performance of 3-port and 4-port waveguide circulators over the waveguide bandwidth has shown some discrepancies. The computed performance tended to be too optimistic. It is shown that an extension of Davies' analysis to include higher order cylindrical modes and evanescent modes in the waveguide arms yields excellent correlation between theory and practice.

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