

# Abstracts

## Performance Limitations of Lossy Circulators (Correspondence)

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*H. Bex and E. Schwartz. "Performance Limitations of Lossy Circulators (Correspondence)."  
1971 Transactions on Microwave Theory and Techniques 19.5 (May 1971 [T-MTT]): 493-494.*

For lossy circulators which are not too far from the ideal circulator important necessary inequalities for the insertion loss which constitute interesting performance limitations are derived approximately. The case of semi-ideal circulators is discussed briefly and the validity of the approximations is estimated.

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