

# Abstracts

## A New Class of Nonreciprocal Components Using Slot Line (Short Papers)

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*L. Courtois and M. De Vecchis. "A New Class of Nonreciprocal Components Using Slot Line (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.6 (Jun. 1975 [T-MTT]): 511-516.*

The authors present an experimental and theoretical study of edge modes in a ferrite-loaded slot line. Nonreciprocal properties are obtained over a broad frequency band. Added microstrip lines provide suitable transitions. A theory based on magnetic boundary conditions shows good agreement with the experimental results and allows a comparison with stripline devices described by Hines. In particular, the characteristics of the slot-line isolators are satisfactorily explained by this theory.

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