

Normal-Mode Analysis of Coupled-Slots with an Axially-Magnetized Ferrite Substrate

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A normal-mode analysis of axially-magnetized coupled ferrite lines (CFL) is presented for the first time. This will permit optimization of propagation characteristics, impedance-matching and placement of ferrite for device applications. Potential applications include a novel distributed planar circulator which does not suffer the high-frequency limitations of the junction circulator.

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