

Abstracts

Field Distribution in a Magnetoplasma-Loaded Waveguide at Room Temperature

R. Hirota and K. Suzuki. "Field Distribution in a Magnetoplasma-Loaded Waveguide at Room Temperature." 1970 Transactions on Microwave Theory and Techniques 18.4 (Apr. 1970 [T-MTT]): 188-195.

The boundary value problem of a rectangular waveguide loaded with a thin slab of transversely magnetized semiconductor is solved with the help of a variational method. An electric field distribution showing strong nonreciprocal characteristics is obtained theoretically, and is in good agreement with the experimental results performed with very thin slabs of n-InSb at room temperature.

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