

Abstracts

On the Coupling Between a Quasiperiodic Structure and an Asymmetric Output Arm

L. Schachter and J.A. Nation. "On the Coupling Between a Quasiperiodic Structure and an Asymmetric Output Arm." 1995 Transactions on Microwave Theory and Techniques 43.1 (Jan. 1995 [T-MTT]): 42-47.

We present the analysis of the electromagnetic coupling between a quasi-periodic disk loaded structure and an asymmetric radial arm. The field is excited by a current distribution which models the spatial growth of a space-charge wave in a traveling wave structure. The output power is controlled by a stub tuner. Maximum power does not occur for minimum reflection. The condition for this regime is presented.

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