

Abstracts

An Electronic Scan Using a Ferrite Aperture Luneberg Lens System

D.B. Medved. "An Electronic Scan Using a Ferrite Aperture Luneberg Lens System." 1958 Transactions on Microwave Theory and Techniques 6.1 (Jan. 1958 [T-MTT]): 101-103.

Beam displacements up to $\pm 30^\circ$ have been observed in the radiation patterns from various ferrite-loaded waveguide apertures in transverse magnetic fields. The apertures are used as feeds for Luneberg lenses, and electrical lobing of narrow pencil beams is accomplished. The proposed use of a square waveguide ferrite-filled feed for a sequential lobing system is described.

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