

Abstracts

Horn Image-Guide Leaky-Wave Antenna (Dec. 1981 [T-MTT])

T.N. Trinh, R. Mittra and R.J. Paleta, Jr.. "Horn Image-Guide Leaky-Wave Antenna (Dec. 1981 [T-MTT])." 1981 Transactions on Microwave Theory and Techniques 29.12 (Dec. 1981 [T-MTT] (1981 Symposium Issue)): 1310-1314.

A novel structure for a frequency-scanning millimeter-wave antenna is described. The antenna is constructed by embedding a dielectric leaky-wave antenna in a long trough with metal flares attached along both sides. The optimum flare angle for achieving maximum gain is theoretically predicted. The design of the leaky-wave antenna, which is comprised of metallic-strip perturbations on top of the dielectric guide, is also discussed.

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