

Abstracts

Horn Image Guide Leaky-Wave Antenna (1981 [MWSYM])

T.N. Trinh, R. Mittra and R.J. Paleta, Jr.. "Horn Image Guide Leaky-Wave Antenna (1981 [MWSYM])." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 20-22.

A novel approach for designing a frequency-scanning millimeter-wave antenna is described. The antenna is constructed by using an image wide leaky-wave antenna embedded in a long trough with metal flares 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 a dielectric guide, is also discussed.

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