

Pdf free Slotted waveguide array antenna .pdf

slotted antenna arrays used with waveguides are a popular antenna in navigation radar and other high frequency systems they are simple to fabricate have low loss high antenna efficiency and radiate linear polarization with low cross polarization this article presents a complete design procedure for planar slotted waveguide antennas swa for a desired sidelobe level ratio slr the proposed method provides a pencil shape pattern with a narrow half power beamwidth which makes the proposed system suitable for high power microwave applications if the waveguide slot antenna is designed in this manner then all of the slots can be viewed as being in parallel hence the input admittance and input impedance for an n element slotted array can be quickly calculated the input impedance of the waveguide is a function of the slot impedance a waveguide slot antenna is a radiating slot antenna cut on a waveguide this chapter focuses on slot antennas and their arrays on rectangular waveguide s of metal typically the waveguide is hollow but sometimes it is filled with dielectric to reduce the guided wavelength slotted waveguide antenna arrays are used in radar communication and remote sensing systems for high frequencies they have linear polarization with low cross polarization and low losses but can also be designed for dual polarizations and phase steered beams in this article a 2 d slot array antenna based on a ridged waveguide with a low level of side lobe is synthesized the

antenna consists of four slotted ridged waveguides each of which

antennas the slotted waveguide antenna

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