

Read free Slotted waveguide array antenna (Download Only)

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 these antennas are often used in aircraft applications because they can be made to conform to array of slotted waveguides fed by a single source by stacking waveguides as shown in figure 1 the e plane beamwidth can be greatly reduced in addition by adding a phase delay to each waveguide the array of waveguides can be steered in the e plane see phased arrays basics 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 slotted waveguide array swa antenna technology has been utilized by many spaceborne missions such as radarsat 1 sir x ers 1 2 and sentinel 1 because swa technology has several advantages like high efficiency good mechanical strength high power handling capacity and manufacturing ease summary 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 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

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