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The waveguide slot antennas we will be discussing have longitudinal slots in the broad face of standard rectangular waveguide, parallel to the length of the guide Figure 7-1 is a photograph of a typical ...

Design of Substrate Integrated Waveguide Multi-band Slots ...

substrate integrated waveguide technique and tapered micro-strip transition These structures are simulated by the software HFSS on substrate of Duroid 5880 Simulated results on return loss and ...

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Non-Resonant Slotted Waveguide Antenna Design Method

ANTENNA DESIGN I n this paper a non-resonant slotted waveguide antenna design method is present-ed The internal and external mutual coupling between adjacent radiating slots is considered in the ...

Design of Slotted Waveguide Antenna for Radar Applications ...

Slotted waveguide antennas are mostly employed in Radar applications This paper analysis the structure and design procedures of slotted antenna in the broad wall This design specifications are chosen for ...

Design of Slotted Waveguide Array Antenna Fed by H-Plane ...

of the planar antenna In section we present the design procedure and the simulated results of the corresponding section The commercially available

3D electromagnetic solver HFSS [2] is used to ...

Design of Slotted Waveguide Antennas with Low Sidelobes ...

Design of Slotted Waveguide Antennas with Low Sidelobes for High Power Microwave Applications Hilal M El Misilmani1, *, Mohammed Al-Husseini2, and Karim Y Kabalan1 Abstract—Slotted waveguide ...

Investigation and Design of a Slotted Waveguide Antenna ...

Investigation and Design of a Slotted Waveguide Antenna with Low 3D Sidelobes by Andries Johannes Nicolaas Maritz Thesis presented in partial fulfilment of the requirements for the degree of Master of ...

Plotting antenna radiation patterns

1900-1940's Most antenna work focused on wire antennas up to UHF (470- 890 MHz) and related electronics WWII years MIT Radiation Lab (huge burst of theoretical as well as practical research) ...

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2 Čestné prohlášení Prohlašuji, že jsem zadáný individuální projekt zpracoval sám s přispěním vedoucího práce a konzultanta a používal jsem pouze literaturu v práci uvedenou

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A THz Slot Antenna Optimization Using Analytical Techniques

based on slotted rectangular waveguide in the THz band was designed and simulated The conclusions are given in section 4 2 Antenna Design and Operation In order to understand the slotted waveguide ...

Theoretical Synthesis and Experimental Measurements of ...

input antenna matching than the resonant feeding antennas, assuring a suppression of a standing wave (minimized reflections) in the feeding waveguide A new synthesis procedure for advanced slotted ...

Broadband Slotted Coaxial Broadcast Antenna Technology

Broadband Slotted Coaxial Broadcast Antenna Technology John L Schadler Director of Antenna Development Dielectric LLC Summary Slotted coaxial antennas have many advantages over ...

Project 1: Rectangular Waveguide (HFSS)

Project 1: Rectangular Waveguide (HFSS) r Objective • Getting Started with HFSS (a tutorial) • Using HFSS, simulate an air-filled WR-90 waveguide shown above • To obtain the Field patterns, intrinsic ...

A cavity-backed coplanar waveguide slot antenna array

A Cavity-backed Coplanar Waveguide Slot Antenna Array James McKnight ABSTRACT In this thesis, a cavity-backed slot antenna array is designed for relatively wide instantaneous bandwidth, high gain ...

RESONANT LENGTH CALCULATION AND RADIATION PATTERN ...

pattern of longitudinal shunt slot in rectangular waveguide using Method of Moments (MoM) technique Resonant length calculation of the slot is a critical parameter in the design of waveguide slot array ...

Marine Antenna Installations - NMEA

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