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HFSS Waveguide Tutorial

HFSS WAVEGUIDE CONSTRUCTION AND SIMULATION 6/26/2018 RYAN NICKLES STEP 1: SETTING UP HFSS To open HFSS using the Windows search bar, type in "ANSYS Now that the design view is manageable, we can move onto constructing the rest of the waveguide Building the Waveguide

Waveguide Directional Coupler Design Hfss

Waveguide Directional Coupler Design Hfss Online Library Waveguide Directional Coupler Design Hfss Directional coupler is a four-port reciprocal, matched and lossless network, which can be structured in various forms, including waveguide directional couplers, hybrid junction, T-junction and branch line directional couplers in non- planar and

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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 Impedance and wavelength for the first 4 modes Analysis 1) Sweep from 4-20 GHz 2) Analysis must include first three modes (TE₁₀, TE₂₀, TE₀₁) 3)

Design of Coplanar-Waveguide-Feed Antenna

II ANTENNA DESIGN A Principle of coplanar waveguide feed As shown in Figure 1, the coplanar waveguide composed Three metal etching conduction bands are in the same side of the dielectric substrate The signal is in the between of the two ground part on the one side of the dielectric substrate, the other side is nothing

COPLANAR-WAVEGUIDE-TO-MICROSTRIP TRANSITION MODEL

coplanar-waveguide-to-microstrip (CPW-to-microstrip) transition shown in Fig 1 This tran-sition employs via holes to connect the two outer ground contacts at the substrate surface to the microstrip ground on the backside of the sub-strate, and is typically used to adapt microwave coplanar probes to structures embedded in the microstrip 400

Design of a CPW-Fed Ultra Wide Band Antenna

The design of antenna used the symmetrical structure of coplanar waveguide bandwidth up from 35 to 110 GHz (VSWR < 2), but these antennas are large in size The radiating patch generally used unit of area of regular shape, such as rectangular, circular or circular ring sheet micro-strip patch With the same working frequency, the

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Microstrip, Stripline, CPW, and SIW Design

Material Properties • Relative Permittivity (ϵ_r) or Dielectric Constant (Dk) - Dk is the property of a material which alters the Electric field in the wave - Dk is a very important property for microwave PCB design - Materials used in PCB technology generally have Dk from 2 to 10 (Dk is dimensionless) $Dk = \epsilon - j\epsilon'$, where: ϵ = energy stored, and ϵ' = energy lost

A Compact Coplanar Waveguide Fed Wideband Monopole ...

A Compact Coplanar Waveguide Fed Wideband Monopole Antenna for RF Energy Harvesting Applications Monika Mathur^{1, *}, Ankit Agrawal¹, Ghanshyam Singh², and Satish K Bhatnagar¹ Abstract—For energy harvesting applications a new design of a coplanar waveguide (CPW) fed monopole antenna is presented

LOWPASS LUMPED-ELEMENT COPLANAR WAVEGUIDE-TO- ...

Coplanar waveguide (CPW) and coplanar stripline (CPS) are widely used as building blocks in the design of uniplanar MMIC's [1] To fully utilize the exclusive features of CPW and CPS, an effective interconnection between them is of crucial importance This may allow the choice of different

uniplanar line-based circuit elements in different

Hfss Waveguide Cavity Slot Antenna

How to design Waveguide slot antenna in HFSS? UHF Cavity Slot Antenna Design of 50 Ω CPW line (Coplanar waveguide line) using HFSS and exciting waveport In this video, design procedure of CPW line is explained and 50 Ω line is designed using HFSS Link to the calculator

Development of an Equivalent Circuit Model of a Finite ...

Coplanar Waveguide Interconnect in MIS System for Ultra-Broadband Monolithic ICs Md Amimul Ehsan², Zhen Zhou¹, and Yang Yi², * Abstract—An equivalent circuit model of a finite ground plane coplanar waveguide (FGCPW) interconnect in a metal-insulator-semiconductor (MIS) system for an ultra-broadband monolithic IC is proposed and illustrated

Design of Finite Ground Coplanar Waveguide (FGCPW) fed ...

studies using Ansoft HFSS and measured results with Vector Network Analyzer II ANTENNA DESIGN AWith monopole feedlength 21mm The analysis of finite ground coplanar waveguide fed monopole antenna is presented in this session The antenna consists of a coplanar wave guide designed for 50 Ω input impedance, fed with an SMA connector

Design and Compare of Two Coplanar Fed Ultra Wideband ...

In this paper, design and analysis of two compact coplanar waveguide (CPW) fed ultra wideband (UWB) slot antenna is presented The proposed antenna consists of a rectangular slot on a ground plane and a triangular patch and another semi-circular patch at the interior portion of the feed that acts as tuning stub of the antenna