Waveguide Directional Coupler Design Hfss

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Experiment5—CouplerDesign.
waves through a transmission line or a waveguide The common use of this element is to measure the power level of a transmitted or received signal The model of a directional coupler is shown in Figure 1 Forward wave Sampled wave Through wave Isolated wave 12 3 4 Figure 1 - Directional coupler model As seen in the figure, the coupler is a
Wideband Directional Coupler for X-band using SIW Technique
waveguide theory, except that its width has to be replaced with the calculated equivalent width of SIW [10] the directional coupler, in which, the coupling is obtained by gap on the common broadside wall of two adjacent SIWs studies for SIW directional couplers are performed, and an X-band coupler is designed II THEORY
Multi-Hole Waveguide Directional Couplers - InTech
Some of them such as HFSS and FEKO, are well commercialized and Figure 1 An Ordinary Broad-Wall Waveguide Directional Coupler and its ports 11 Definitions As mentioned, design equations, we consider that two waveguide’s are lay exactly on each other Here the
Multilayer Substrate Integrated Waveguide Directional Coupler
directional coupler for different applications [3] Rectangular waveguide directional coupler was extensively investigated [5-10] and numbers of circuit configurations have been developed on the basis of various design principles that suitable for high performance, high power, low insertion loss and high quality (Q) factor However, the
Multilayer Substrate Integrated Waveguide Directional Coupler
INTERNATIONAL JOURNAL OF MICROWAVE AND OPTICAL TECHNOLOGY, Multilayer Substrate Integrated Waveguide Directional Coupler T H C Bouazza*, K Nouri, B S Bouazza
Design of K-Band Substrate Integrated Waveguide Coupler ...

waveguide, HFSS, coupler, circulator, power divider I Design of K-Band Substrate Integrated Waveguide Coupler, Circulator and Power Divider directional coupler (-3dB) is realized by two RSIW with a common wall on which an aperture is used to realize the

Bidirectional Coupler Optimization in WR284-Type Waveguide

waveguide-to-N-type transitions, two WR284 waveguide straight pieces, and a 65-inch waveguide adapter piece shown in Fig 1 The waveguide straight pieces were inserted between the directional coupler and the transitions to ensure that any residual fields in the coax-to-waveguide transition would not be included in the measurements

Micro-strip to waveguide transition with integrated coupler

Also an off chip coupler before the waveguide transition will have the drawback of higher insertion loss and also by larger dimensions An alternative use of the coupler could be to design an RF-loop channel from Tx to Rx in a radio Simulations in Ansoft HFSS and ADS have been used for designing and

EuMC: Design of Multilayered Substrate-Integrated ...

Design of Multilayered Substrate-Integrated Waveguide Cross-Slot Couplers Vladimir A Labay1, Jens Bornemann2, T Rama Rao3 1Department of Electrical and Computer Engineering, Gonzaga University Spokane, WA 99258, USA 2Department of Electrical and Computer Engineering, University of Victoria Victoria, BC, V8W 2Y2, Canada 3Department of Telecommunication Engineering, SRM University

Design of a Low-Cost Microstrip Directional Coupler with ...

The design of the directional coupler was performed through a simplified circuital model, and then optimized by using the commercial software HFSS by Ansys A prototype has been realized by R&D Labs of CIAS Elettronica, using a low-cost laminate

Design of Dual-Band Substrate-Integrated Waveguide E-Plane ...

Design of Dual-Band Substrate-Integrated Waveguide E-Plane Directional Couplers Vladimir A Labay1 and Jens Bornemann2 1 Department of Electrical and Computer Engineering, Gonzaga University, Spokane, WA 99258, USA 2 Department of Electrical and Computer Engineering, University of Victoria, Victoria, BC V8W 3P6, Canada 1labay@gonzagaedu Abstract — Dual-band substrate-integrated …

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Wideband Directional Coupler for Millimeter Wave ...

Wideband Directional Coupler for Millimeter Wave Application hole waveguide coupler is employed in this design, and as shows in Figure 1 they are a few holes with uniform (HFSS) to achieve wide band performance In the first step, we designed conventional

Design of Terahertz Short-slot Coupler with Curved Waveguide

Progress In Electromagnetics Research Letters, Vol 76, 27–32, 2018 Design of Terahertz Short-slot Coupler with Curved Waveguide Wu Pan, Hao Cheng*, Xia Yin, and Xuan Li Abstract—The design of a terahertz short-slot coupler with curved waveguide is proposed

Design of an E-H Tuner and an Adjustable Directional ...

DESIGN OF AN E-H TUNER AND AN ADJUSTABLE DIRECTIONAL COUPLER FOR HIGH-POWER WAVEGUIDE SYSTEMS B Bogdanovich†, MEbert1, M Egorov, V Kaminsky, N Sobenin, V Volkov, D Zavadtsev Moscow Engineering Physics Institute (State University), 1DESY Abstract The calculation and experimental results for a magic tee

Design of a Compact X-Band Substrate Integrated Waveguide ...

Design of a Compact X-Band Substrate Integrated Waveguide Directional Coupler B H Ahmad #1, Siti Sabariah Sabri #2, A R Othman #3 # Centre for Telecommunication Research & Innovation (CeTRI

Design of microwave planar directional coupler based on ...

using HFSS on a single substrate of ARLON 1000 Simulated results are presented and discussed Index Terms— Substrate integrated waveguide (SIW), directional coupler, transition, via-holes, microstrip technology I INTRODUCTION Directional couplers are widely used in many microwave and

Design of a Novel Structure SIW 90° Coupler

applications Through using Ansoft HFSS and CST code a substrate integrated waveguide coupler has conceived and optimized in this study The SIW 90° coupler design simulations show good performances with low return loss, high isolation better than -20 and -40 …