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Niraj Kumar

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Design and simulation
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Kumar VIT Chennai

Design of a 3 dB Branch
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Junction in Ansys

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*HFSS, bi directional
splitter, power
combiner, waveguide
directional coupler
design*

Design of 50 Ω CPW
line (Coplanar
waveguide line) using
HFSS and exciting
waveport. HFSS
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Antenna tutorial

Microstrip patch
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how to sweep SWR of
an antenna | Return Loss
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#599 What is a Return
Loss Bridge?~~

Fiber Optic Coupler
Types and How to Make
Couplers **Two holes**

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**Directional Coupler
basics, Diagram and
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*Design and Simulation
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**Design - Part 4: Power
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Coupler Coplanar**

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(HFSS) Two Hole**

*Directional Couplers -
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Microwave Components

*- Microwave
Coupler Design Lee 18:*

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Nader Engheta: \ "Wave-
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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

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couplers in non- planar
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Additionally, the design procedure is validated by em-simulations

(HFSS) and

experiments. The

present coupler is

marked by a compact

coplanar structure, four

right-angled ports and

ease of realizing 3-dB

coupling. Published in:

2005 Asia-Pacific

Microwave Conference

Proceedings

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Improvements in directivity and coupling value tolerances can be made for specified narrow band applications. The CC and DC series of couplers are designed, tested and manufactured to the highest quality

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standards.
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Couplers

A very commonly used basic element in microwave system is the directional coupler. Its basic function is to sample the forward and reverse travelling waves through a transmission line or a waveguide. The common use of this

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element is to measure the power level of a transmitted or received signal.

Experiment 5—Coupler Design.

Waveguide coupler's coupled output port is farthest away from the input port. Conversely, microstrip or stripline coupled line's coupled output port is closest to

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the input port. Any system level schematic symbol should rely on no assumptions in the reader's mind, and should always show an arrow or words depicting coupling direction. Mar 26, 2005

Directional Coupler

simulation in hfss |

Forum for Electronics

Directional couplers can

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be realized in
microstrip, stripline,
coax and waveguide.

They are used for
sampling a signal,
sometimes both the
incident and reflected
waves (this application
is called a reflectometer,
which is an important
part of a network
analyzer). Directional
couplers generally use
the distributed

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properties of microwave

circuits.

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Microwaves 101 |

Directional Couplers

An Ordinary Broad-
Wall Waveguide

Directional Coupler and
its ports 1.1. Definitions
As mentioned, couplers are
considered as 4-port passive
devices in which, a
part of input wave reaches
to output port 2 and the rem

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ained would be coupled to-
the coupled port 3.

Coupler Design

Multi-Hole Waveguide Directional Couplers

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

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realized by R&D Labs
of CIAS Elettronica,
using a low-cost
laminare.

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

Abstract — Dual-band
substrate-integrated
waveguide (SIW)
couplers for operation in
the 20/30 GHz bands
are presented. Initial

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design guidelines follow substrate selection and aperture coupling theory as known from standard air-filled waveguide components. The results demonstrate that this design approach is sufficient for many applications.

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

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Click here to go to our page on directional couplers. Click here to learn more about multi-section symmetric couplers . Here's a page on a microstrip "3 dB" coupler! The Lange coupler is one form of coupled line coupler. Why does the coupled-line have a natural 90 degree phase split? Look on this page!

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Click here to learn about an important isolation limitation in hybrid couplers (new for ...

[Microwaves101 |](#)

[Coupled Line Couplers](#)

A design based on this configuration is constructed and its measured 10dB return loss bandwidth is from 121 MHz to 1520 MHz and the monopole is of a

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height $\lambda/10$. This proposed antenna is firstly ...

Can I design coupler in HFSS? - ResearchGate

A directional coupler designed to split power equally between two ports is called a hybrid coupler. Directional couplers are most frequently constructed from two coupled

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transmission lines set close enough together such that energy passing through one is coupled to the other.

Power dividers and directional couplers - Wikipedia

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COMMENTS, IT WILL
BE TRY TO ANSWER
ASAP. Description:
Substrate integrated

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waveguide (SIW), also called post-wall waveguide or laminated wavegui...

Substrate Integrated waveguide (SIW)- HFSS simulation ...

Design • For given specifications, design an E-plane waveguide dual-hole coupler according to MYJ and link it to an MMT algorithm. • For

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Given substrate and via-hole parameters, translate dimensions to SIW application and recalculate using, e.g., HFSS. • Fine-optimize within HFSS.

Multilayered Substrate-Integrated Waveguide Couplers

A double ridge cross-waveguide directional coupler has been

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designed for feeding RF power. Port match at E plane arm has been achieved through inductive iris which cancels out capacitive...

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