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Directional
Coupler Design
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Design and
Simulation of 180
degree ring hybrid
coupler using HFSS
at 2.4 GHz by Dr.
Niraj Kumar

Design and simulation

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of branch line (90 degree) coupler using HFSS by Dr. Niraj Kumar VIT Chennai

Design of a 3 dB Branch Line Coupler in HFSS Rectangular Waveguide Design using HFSS

HFSS Tutorial #3 : Tee Junction | Create, model and analyze a Waveguide Tee 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

Tutorial: Waveguide T-
Junction *HP 778D*

*Dual Directional
Coupler - Tear Down*

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coupler, two hole

directional

coupler, coupler

electronics Directional

Coupler in Microwave

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Structure and

Scattering

Parameters), Wave

Guide Lec 17:

Introduction to power

dividers ~~HAM RADIO:~~

~~Building a Coaxial~~

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~~Magnetic Loop~~

~~Antenna. COAX~~

~~MAGLOOP: Double~~

~~Loop: Ansoft HFSS z~~

Antenna tutorial

Microstrip patch

antenna using HFSS

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#158: Directional

Coupler Basics

\u0026amp; how to sweep

SWR of an antenna |

Return Loss | VSWR

Finite Antenna Array

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design using HFSS

Leaky Waveguide

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Learn Measurement

of VSWR for

Pyramidal Horn

Antenna | Microwave

Test Bench |

Technilab Phased

Array Antennas - An

Introduction | Lecture

#8 | Alan Fenn #599

What is a Return Loss

Bridge?

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Fiber Optic Coupler

Types and How to

Make Couplers

Two

holes Directional

Coupler basics,

Diagram and

working in

Microwave by

Engineering Funda

Design and

Simulation of 50 ?

microstrip line using

HFSS RF and

Microwave PCB

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Design - Part 4:

Power Dividers.

Directional Coupler

Coplanar Waveguide

Animation (HFSS)

*Two Hole Directional
Couplers - Microwave
Components -
Microwave
Communication Lee*

~~18: Directional~~

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Matter Interaction in

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Four-Dimensional
(4D) Metamaterials\
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Directional Coupler
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Directional Couplers
directional coupler
design for the high
vacuum side of the
system is necessary
The following paper
highlights a novel
coupler design ...

[MOBI] Waveguide

Page 13/73

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Modeling for S Band

Frequency Design of

a Low-Cost Microstrip

Directional Coupler

with ... Bidirectional

Coupler Optimization

in WR284-Type

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Waveguide Wideband
Directional Coupler
for X-band using SIW
Technique

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Directional Couplers
for High Vacuum
Applications

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simulation in hfss

Multi-Hole ...

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Directional Coupler

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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

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couplers, hybrid
junction, T-junction
and branch line
directional couplers in
non- planar and
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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 branch line

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directional couplers in
non- planar and

Coupler Design

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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,

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four right-angled ports
and ease of realizing
3-dB coupling.

Published in: 2005

Asia-Pacific

Microwave

Conference

Proceedings

Cruciform directional
couplers in H-plane
rectangular ...

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All couplers have
been designed to
offer low VSWR, flat
response and high

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directivity over the entire designated waveguide band.

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

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Directional 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

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transmission line or a waveguide. The common use of this element is to measure the power level of a transmitted or received signal.

Experiment5—Coupler Design.

Waveguide coupler's coupled output port is farthest away from the input port.

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Conversely, microstrip or stripline coupled line's coupled output port is closest to 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

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Directional

Directional Coupler

simulation in hfss |

Forum for Electronics

Directional couplers can 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

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reflectometer, which is an important part of a network analyzer).

Directional couplers generally use the distributed properties of microwave circuits.

Microwaves101 |
Directional Couplers
An Ordinary Broad-Wall Waveguide
Directional Coupler
and its ports 1.1.

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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 remainder would be coupled to the coupled port 3.

Multi-Hole Waveguide Directional Couplers

The design of the directional coupler was performed

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through a simplified circuit 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 a Low-Cost
Microstrip Directional
Coupler with ...

Page 30/73

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Abstract — Dual-band substrate-integrated waveguide (SIW) couplers for operation in the 20/30 GHz bands are presented. Initial design guidelines follow substrate selection and aperture coupling theory as known from standard air-filled waveguide components. The

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results demonstrate that this design approach is sufficient for many applications.

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

...

Click here to go to our page on directional couplers. Click here to learn more about multi-section

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symmetric couplers .

Here's a page on a
Coupler Design
Hfss
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!

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

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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 height $Xlf/10$. This

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Directional antenna is
firstly ...

Coupler Design

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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

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Directional coupler
Coupler Design
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from two coupled transmission lines set close enough together such that energy passing through one is coupled to the other.

Power dividers and directional couplers - Wikipedia

FEEL FREE TO
COMMENTS, IT WILL
BE TRY TO

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ANSWER ASAP.

Description: Substrate integrated 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

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dual-hole coupler

according to MYJ and link it to an MMT

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

Multilayered

Substrate-Integrated

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Waveguide Couplers

A double ridge cross-waveguide directional coupler has been 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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In this book, a wide range of different topics related to analytical as well as numerical solutions of problems related to scattering, propagation, radiation, and emission in different medium are discussed. Design of several devices and their measurements

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aspects are

introduced. Topics related to microwave region as well as

Terahertz and quasi-optical region are

considered. Bi-isotropic metamaterial in optical region is investigated.

Interesting numerical methods in frequency domain and time domain for scattering,

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radiation, forward as

well as reverse

problems and

microwave imaging

are summarized.

Therefore, the book

will satisfy different

tastes for engineers

interested for example

in microwave

engineering,

antennas, and

numerical methods.

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The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progresss between scholars, scientists and engineers all over the world and providing a unique opportunity to exchange information,

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to present the latest results as well as to review the relevant issues on

This book focuses on soft computing and its applications to solve real-life problems occurring in different domains ranging from medical and health care, supply chain management and

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image processing to
cryptanalysis. It
presents the
proceedings of
International
Conference on Soft
Computing: Theories
and Applications
(SoCTA 2016),
offering significant
insights into soft
computing for
teachers and
researchers and

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inspiring more and more researchers to work in the field of soft computing. >The term soft computing represents an umbrella term for computational techniques like fuzzy logic, neural networks, and nature inspired algorithms. In the past few decades, there has been an

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Exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life. The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas.

SoCTA is the first

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international

conference being
organized at Amity
University Rajasthan

(AUR), Jaipur. The
objective of SoCTA
2016 is to provide a
common platform to
researchers,
academicians,
scientists, and
industrialists working
in the area of soft
computing to share

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and exchange their views and ideas on the theory and application of soft computing techniques in multi-disciplinary areas. The aim of the conference is to bring together young and experienced researchers, academicians, scientists, and industrialists for the

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exchange of

knowledge. SoCTA especially encourages the young

researchers at the beginning of their career to participate in this conference and present their work on this platform.

Issues in Nuclear and Plasma Science and Technology: 2011

Page 50/73

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Edition is a

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eBook that delivers
timely, authoritative,

and comprehensive
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Technology. The

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Plasma Science and

Technology: 2011

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Science and

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relevant. The content of Issues in Nuclear and Plasma Science and Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written,

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available at <http://www.ScholarlyEditions.com/>.

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The thesis describes the development of receiver technologies for sub-millimetre astronomy instruments, focusing on high performance coherent cryogenic detectors operating close to the superconductor gap

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frequency. The mixer chip which comprises the SIS devices, fed by a unilateral finline and matching planar circuits was fabricated on 15 micron silicon substrate using the recently developed Silicon-On-Insulator (SOI) technology.

This offered broadband IF and RF performance, with

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fully integrated on-chip planar circuits resulting in an easily reproducible mixer chip and a simple mixer block. An important consequence of this design is that it can be extended to the supra-THz region and making the fabrication of multi-pixel heterodyne arrays

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feasible. The

extension of the
operation of major

telescopes such as

ALMA, APEX and the

GLT from single pixel

to large format arrays

is the subject of

extensive research at

present time since it

will allow fast

mapping combined

with high resolution of

the submillimetre sky.

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The technology described in this thesis makes a major contribution to this effort.

Annotation This practical "how to" book is an ideal introduction to electromagnetic field-solvers. Where most books in this area are strictly theoretical, this

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Directional resource

provides engineers with helpful advice on selecting the right tools for their RF (radio frequency) and high-speed digital circuit design work

This book constitutes the thoroughly refereed post-conference proceedings of the 6th

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International ICST
Conference on Mobile
Multimedia
Communications
(MOBIMEDIA 2010)
held in Lisbon,
Portugal, in
September 2010,
which was
accompanied by the
First International
Workshop on
Cognitive Radio and
Cooperative

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Strategies for

POWER Saving

(C2POWER 2010),

the Workshop on

Impact of Scalable

Video Coding on

Multimedia

Provisioning

(SVCVision 2010),

and the First

International

Workshop on Energy-

efficient and

Reconfigurable

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Transceivers (EERT
2010). The 59 revised
full papers presented
were carefully
reviewed and
selected from
numerous
submissions and are
organized in topical
sections on advanced
techniques for video
transmission;
multimedia
distribution; modelling

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of wireless systems;
cellular networks;
mobility concepts for
IMT-advances
(MOBILIA); media
independent
handovers
(MIH-4-MEDIA); and
IP-based emergency
applications and
services for next
generation networks
(PEACE).

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The aim of this conference is to provide a forum for researchers and technologists to present new ideas and contributions in the form of technical papers, panel discussions as well as real world evaluation of many ideas in communications, control systems and

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signal processing
employed The first
conference will bring
together various
developers to discuss
the current status,
technical challenges,
standards,
fundamental issues,
and future services
and applications
CCSSP 2020 seeks
to address and
capture highly

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innovative and state
of the art research
from academia, the
industry as well as
standardization
advances

This text, directed to
the microwave
engineers and Master
and PhD students, is
on the use of
electromagnetics to
the development and

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Design of advanced

integrated

components

distinguished by their

extended field of

applications. The

results of hundreds of

authors scattered in

numerous journals

and conference

proceedings are

carefully reviewed

and classed. Several

chapters are to

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refresh the knowledge
of readers in
advanced
electromagnetics.

New techniques are
represented by
compact electromagn
etic–quantum
equations which can
be used in modeling
of microwave-
quantum integrated
circuits of future In
addition, a topological

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method to the

boundary value

problem analysis is

considered with the

results and examples.

One extended chapter

is for the development

and design of

integrated

components for

extended bandwidth

applications, and the

technology and

electromagnetic

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issues of silicon

integrated

transmission lines,

transitions, filters,

power dividers,

directional couplers,

etc are considered.

Novel prospective

interconnects based

on different physical

effects are reviewed

as well. The ideas of

topology is applicable

to the electromagnetic

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Directional

signaling and
computing, when the
vector field maps can
carry discrete

information, and this
area and the results in
topological signaling
obtained by different
authors are analyzed,
including the recently
designed predicate
logic processor
operating spatially
represented signal

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units. The book is rich of practical examples, illustrations, and references and useful for the specialists working at the edge of contemporary technology and electromagnetics.

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Page 73/73