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comprises select

proceedings of the

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4th International

Conference on

Optical and

Wireless

Technologies

(OWT 2020). The

contents of this

volume focus on

research carried

out in the areas of

Optical

Communication,

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Optoelectronics,

Optics, Wireless

Communication,

Wireless

Networks,

Sensors, Mobile

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and Antenna and

Wave Propagation.

The volume also

explores the

combined use of

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various optical and

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wireless

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technologies in

next generation

applications, and

their latest

developments in

applications like

photonics, high

speed

communication

systems and

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networks, visible

light

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communication,

nanophotonics,

wireless and

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This book will

serve as a useful

reference to

scientists,

academicians,

engineers and

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policy-makers

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interested in the

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field of optical and

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The book

comprises

selected papers

presented at the

International

Conference on

Wireless

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Communication

(ICWiCOM), which

is organized by D.

J. Sanghvi College

of Engineering's

Department of

Electronics and

Telecommunicatio

n Engineering. The

book focuses on

specific topics of

wireless

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communication,

like signal and

image processing

applicable to

wireless domains,

networking,

microwave and

antenna design,

and telemedicine

systems. Covering

three main areas □

networking,



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antenna designs

and embedded

systems applicable

to communication □

it is a valuable

resource for

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This book includes  
high impact papers

presented at the  
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Systems 2019,  
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Institute of

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Technology,

Coimbatore, India,

on 15-16

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November, 2019.

Discussing recent

trends in cloud

computing, mobile

computing, and

advancements of

electronics

systems, the book

covers topics such

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as automation,

VLSI, embedded

systems,

integrated device

technology,

satellite

communication,

optical

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RF

communication,

microwave

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engineering,

artificial

intelligence, deep

learning, pattern

recognition,

Internet of Things,

precision models,

bioinformatics, and

healthcare

informatics.

Advances in

Electronics,

*Page 13/180*

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Review

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APPEIC 2014

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This book focuses on the use of The Internet of Things (IoT) and big data in business intelligence, data management, Hadoop, machine learning, cloud, smart cities, etc. IoT and big data emerged from the early 2000s data boom, driven forward

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by many of the early internet and technology companies. The Internet of Things (IoT) is an interconnection of several devices, networks, technologies, and human resources to achieve a common goal. There are a



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variety of IoT-based applications being used in different sectors and have succeeded in providing huge benefits to the users. The generation of big data by IoT has ruptured the existing data processing capacity of IoT and recommends to adopt

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the data analytics to  
strengthen solutions.

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The success of IoT depends upon the influential association of big data analytics. New technologies like search engines, mobile devices, and industrial machines provided as much data as companies could handle—and the scale

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continues to grow. In a study conducted by

IDC, the market

intelligence firm

estimated that the

global production of

data would grow 10x

between 2015 and

2020. So, the

proposed book covers

up all the aspects in

the field discuss

above.

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The communication field is evolving rapidly in order to keep up with society's demands. As such, it becomes imperative to research and report recent advancements in computational intelligence as it applies to communication networks. The

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Handbook of

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Research on Recent

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Developments in

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Application is a

pivotal reference

source for the latest

developments on

emerging data

communication

applications.

Featuring extensive

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coverage across a range of relevant perspectives and topics, such as satellite communication, cognitive radio networks, and wireless sensor networks, this book is ideally designed for engineers, professionals,

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practitioners, upper-

level students, and

academics seeking

current information

on emerging

communication

networking trends.

Contributed papers

presented at the

National Conference

on Microwaves and

Optoelectronics

organized during June

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29-30, 2004 at

Department of

Physics, Dr.

Babasaheb Ambedkar

Marathwada

University,

Aurangabad.

Based on Bahl and

Bhartia's popular

1980 classic,

Microstrip Antennas,

this all new book

provides the detail



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antenna engineers and

designers need to

design any type of

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After addressing

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current design and

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emphasizing the most

pressing issues in this

area, including

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broadbanding,

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circular polarization,

and active microstrip

antennas in

particular. Special

design challenges,

ranging from dual

polarization, high

bandwidth, and

surface wave

mitigation, to

choosing the proper

substrate, and shaping

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an antenna to achieve  
desired results are all  
covered.

New Trends and  
Applications in  
Internet of Things  
(IoT) and Big Data  
Analytics

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Computing and  
Electronics Systems

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Proceedings of ICSC  
Microstrip  
2019

Antenna By  
Microstrip Patch  
Antennas (Second  
Edition)

Broadband Planar  
Antennas

Characteristic Modes

***Recent wireless  
technology mostly  
depends on the  
microwaves and  
millimeter waves.***

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***To transmit these waves we require antennas. Antenna is an important and integral part of any wireless communication system. From the initial days, researchers worldwide have tried various techniques for enhancing***

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Antenna By  
***bandwidth and  
efficiency of  
antenna By  
structures.***

***Broadband  
antennas are such  
antennas which  
have operating  
bandwidth  
(Impedance  
bandwidth or  
fractional  
bandwidth) greater  
than 10% and high***

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Antennas Possess

*radiation efficiency*

*greater than 50%.*

*Main advantage of*

*broadband*

*antennas with high*

*efficiency is that,*

*instead of single*

*application these*

*structures are*

*useful for multiple*

*applications. Many*

*approaches such as*

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**slot cutting, EBG**

**loading, resonator**

**loading, aperture**

**coupling, fractal**

**geometry,**

**substrate removal,**

**grooved ground**

**plane etc.**

***If you are involved***

***in designing and***

***developing small***

***antennas, this***

***complete cutting-***

***edge guide covers***



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***everything you  
need to know.***

Microstrip

***Antenna Design***

***From fundamentals  
and basic theory to  
design***

***optimization,***

***evaluation,***

***measurements and***

***simulation***

***techniques, all the***

***essential***

***information is***

***included. You will***

***also get many***

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*practical examples  
from a range of*

*wireless systems,*

*whilst a glossary is*

*provided to bring*

*you up to speed on*

*the latest*

*terminology. A*

*wide variety of*

*small antennas is*

*covered, and*

*design and*

*practice steps are*

*described for each*

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*type: electrically  
small, functionally*

*small, physically*

*constrained small*

*and physically*

*small. Whether you*

*are a professional*

*in industry, a*

*researcher, or a*

*graduate student,*

*this is your*

*essential guide to*

*small antennas.*

**Compact**

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**microstrip**

**antennas are of**

**great importance**

**in meeting the**

**miniaturization**

**requirements of**

**modern portable**

**communications**

**equipment This**

**book is a**

**comprehensive**

**treatment of**

**design techniques**

**and test data for**

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***current compact  
and broadband  
microstrip designs***

***Summarizes the  
work of the author  
and his graduate  
students who have  
published over 80  
refereed journal  
articles on the  
subject in the past  
few years Advanced  
designs reported  
by various other***

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***prestigious***

***antenna designers***

***are incorporated as***

***well***

***This book***

***examines both***

***theoretical***

***developments of***

***characteristic***

***modes (CMs) and***

***practical***

***developments of***

***CM-based***

***methodologies for***

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*a variety of critical  
antenna designs.*

*The book is divided  
into six chapters.*

*Chapter 1 provides  
an introduction  
and discusses the  
recent advances of  
the CM theory and  
its applications in  
antenna  
engineering.*

*Chapter 2  
describes the*

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*Microstrip  
Antenna By*  
**formulation of the  
characteristic  
mode theory for**

**perfectly  
electrically  
conducting (PEC)  
bodies and  
discusses its  
numerical  
implementations.**

**Chapter 3 presents  
the CM theory for  
PEC structures  
embedded in**



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***multilayered  
medium and its  
applications.***

***Chapter 4 covers  
recent advances in  
CM theory for  
dielectric bodies  
and also their  
applications.***

***Chapter 5  
discusses the CM  
theory for N-port  
networks and its  
applications to the***

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*design of antenna*

*arrays. Finally,*

**Chapter 6**

*discusses the*

*design of platform-*

*integrated antenna*

*systems using*

*characteristic*

*modes.*

**Modern Small**

**Antennas**

**Innovations in**

**Computational**

**Intelligence**

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Article By

***International  
Conference on  
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Bioelectronics and  
Medical Devices  
Handbook of  
Research on  
Recent  
Developments in  
Intelligent***

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Application  
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Antenna By  
Microwaves and  
Optoelectronics**

Microwave systems are key components of every modern wireless communication system. The

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main objective

of this book

was to collect

as many

different stat

e-of-the-art

studies as

possible in

order to cover

in a single

volume the

main aspects

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of microwave  
Microstrip systems and  
Antenna By applications.

This book  
contains 17  
chapters  
written by  
acknowledged  
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researchers,  
academics, and  
microwave

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engineers,

Microstrip

providing

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comprehensive

information

and covering a

wide range of

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This book is

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divided into

four parts.

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The first part

is devoted to

microwave

components.

The second

part deals

with microwave

ICs and

innovative

techniques for



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design. The  
third part  
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systems.  
Finally, the  
last part  
covers

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applications  
of microwave

systems.

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the

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Trends in  
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(ICETE), held  
at University  
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by the Alumni  
Association,  
University  
College of  
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Osmania  
University, in  
Hyderabad,  
India on 22-23  
March 2019.

The  
proceedings of  
the ICETE are  
published in  
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covering seven  
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Civil,  
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Firstly, it  
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antennas, CP

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CP dielectric

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CP horns.

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LTCC, and CP

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Radio

Frequency

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postgraduates

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communications

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their related



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applications.

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include design

and development

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and reliable

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This new volume

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The different types of antennas, including antennas using RF energy harvesting for biomedical applications, are covered as well.

Printed antennas have become an integral part of

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next-generation

wireless

communications

and have been

found to be

commonly used to

improve system

capacity, data

rate,

reliability,

etc. This book

covers theory,

design

techniques, and

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the  
Microstrip  
Antenna By  
chronological  
regression of  
the printed  
antennas for  
various  
applications.  
This book will  
provide readers  
with the basic  
conceptual  
knowledge about  
antennas along  
with advanced



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techniques for  
antenna design.

Microstrip  
Antenna By

It covers a  
variety of  
analytical  
techniques and  
their CAD  
applications and  
discusses new  
applications of  
printed antenna  
technology such  
as sensing. The  
authors also

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present special  
Microstrip  
reconfigurable

antennas such as

ME dipole,

polarization,

feeding, and

DGS. The book

will be useful

to students as

an introduction

to design and

applications of

antennas.

Additionally,

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experienced

researchers in

this field will

find this book a

ready reference

and benefit from

the techniques

of research in

printed antennas

included in this

book. Following

are some of the

salient features

of this book:

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Covers a variety

of analytical

techniques and

their CAD

applications

Discusses new

applications of

printed antenna

technology such

as sensing

Examines the

state of design

techniques of

printed antenna

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Presents special  
reconfigurable

antennas such as

ME dipole,

polarization,

feeding, and DGS

This volume

presents

selected papers

from the 3rd

International

Conference on

Optical and

Wireless

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Technologies,  
conducted from

16th to 17th

March, 2019. It

focuses on

extending the

limits of

currently used

systems

encompassing

optical and

wireless

domains, and

explores the

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latest

Microstrip  
developments in

Antenna By  
applications

like photonics,

high speed

communication

systems and

networks,

visible light

communication,

nano-photonics,

wireless, and

MIMO systems.

The proceedings

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contain high

quality

scholarly

articles, giving

insight into the

analytical,

experimental,

and

developmental

aspects of

systems,

techniques, and

devices in these

spheres. This



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volume will

prove useful to

researchers and

professionals

alike.

Numerical

Techniques for

Microwave and

Millimeter-Wave

Passive

Structures

Design and

Applications

Theory and

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Applications of  
Applied  
Microstrip  
Electromagnetics  
Applications and  
Technology  
Advances in  
Smart  
Communication  
and Imaging  
Systems  
Printed Antennas  
A guide to  
broadband

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microstrip

Microstrip  
Antenna By  
antennas, offering  
information to help

you choose and

design the

optimum

broadband

microstrip antenna

configurations for

your applications,

without sacrificing

other antenna

parameters. The

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text shows you

how to take

advantage of the

light-weight, low

volume benefits of

these antennas, by

providing

explanations of the

various

configurations and

simple design

equations that

help you analyze

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and design

microstrip

antennas with

speed and

confidence. This

practical resource

presents an

understanding of

the radiation

mechanism and

characteristics of

microstrip

antennas, and

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provides guidance

on designing new

types of planar

monopole

antennas with

multi-octave

bandwidth. The

authors explore

how to select and

design proper

broadband

microstrip antenna

configurations for

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Truncated Square

compact, tunable,

dual-band and

Antenna By  
circular

polarization

applications.

Moreover, the

work compares all

the broadband

techniques and

suggests the most

attractive

configuration.

The most

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comprehensive

Microstrip

work on a number

Antenna By  
of practical

numerical

methods for

analyzing passive

structures in

microwave and

millimeter-wave

integrated circuits.

The introduction

presents a brief

comparison of the



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various numerical

methods and how

they may be

integrated into

computer-aided

design programs,

so the reader can

make the

appropriate

choice. Chapters

following present

step-by-step,  
detailed

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descriptions of the

methods, each

chapter written by

the utmost

authority on the

subject. Chapters

provide illustrative

examples and are

written so that the

reader can write

his own computer

program based on

the numerical

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method described

(some chapters

include sample

computer

programs).

The book presents

basic and

advanced

concepts of

circularly polarized

antennas,

including design

procedure and

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recent

applications.

Cross dipole

antennas,

microstrip

antennas, helical

antennas,

quadrifilar helix

antennas,

frequency

independent

antennas, horn

antennas,

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omnidirectional

Microstrip circularly polarized

Antenna By antennas and

radial line array

antennas are

discussed. With

abundant

examples, the

book is an

essential reference

for researchers

and engineers.

The present book

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includes a set of

selected best

papers from the

3rd International

Conference on

Recent

Developments in

Science,

Engineering and

Technology

(REDSET 2016),

held in Gurgaon,  
India, from 21 to 22

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October 2016. The

conference

focused on the

experimental,

theoretical and

application

aspects of

innovations in

computational

intelligence and

provided a

platform for the

academicians and

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scientists. This  
book provides an  
insight into

ongoing research  
and future

directions in this  
novel,

continuously  
evolving field.

Many decades  
have been devoted  
to creating and  
refining methods



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and tools for  
computational

intelligence such

as Artificial Neural  
Networks,

Evolutionary

Computation,

Fuzzy Logic,

Computational

Swarm Intelligence

and Artificial

Immune Systems.

However, their

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applications have

not yet been

broadly

disseminated.

Computational

intelligence can be

used to provide

solutions to many

real-life problems,

which could be

translated into

binary languages,

allowing

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computers to  
process them.

Microstrip

Antenna By

These problems,

which involve

various fields such

as robotics,

bioinformatics,

computational

biology, gene

expression, cancer

classification,

protein function

prediction, etc.,

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could potentially

be solved using

computational

intelligence

techniques.

ICICCT 2019 –

System Reliability,

Quality Control,

Safety,

Maintenance and

Management

Applications and

Innovations

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Truncated Square  
Handbook of  
Microstrip  
Antennas

Antennas for  
Multiple  
Applications Vol.-I  
Proceedings of  
ETES 2018  
Optical and  
Wireless  
Technologies

***The increasing  
demand for***

*Page 125/180*

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**wireless**

**communications**

**has revolutionised**

**the lifestyle of**

**today's society**

**and one of the key**

**components of**

**wireless**

**technology is**

**antenna design.**

**Broadband planar**

**antennas are the**

**newest generation**

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**of antennas**

**boasting the**

**attractive features**

**required, such as**

**broad operating**

**bandwidth, low**

**profile, light**

**weight, low cost**

**and ease of**

**integration into**

**arrays or Radio**

**Frequency (RF)**

**circuits, to make**

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*them ideal*

*components of*

*modern*

*communications*

*systems. Research*

*into small and*

*broadband*

*antennas has been*

*spurred by the*

*rapid development*

*of portable*

*wireless*

*communication*



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Microstrip

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***devices such as  
cell phones,  
laptops and  
personal digital  
assistants. This all-  
encompassing  
volume,  
Broadband Planar  
Antennas: Design  
and Applications,  
systematically  
describes the  
techniques for all***

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***planar antennas***

***from microstrip***

***patch antennas,***

***suspended plate***

***antennas and***

***planar inverted-L/F***

***antennas to planar***

***dipole antennas.***

***Also discussed are***

***some of the most***

***recent outcomes***

***such as***

***broadband***

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***antenna issues in  
promising ultra-  
wideband***

***applications.***

***Clearly describes  
the fundamentals  
of planar antennas  
and categorises  
them according to  
their radiation  
characteristics  
Introduces the  
advanced***

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***progress in***

***broadband planar***

***antennas for***

***modern wireless***

***communications***

***Includes a wealth***

***of case studies,***

***design guidelines,***

***figures and tables***

***This text is***

***essential reading***

***for antenna, RF***

***and microwave***

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**engineers and**

**manufacturers**

**within the telecom**

**munications**

**industry. Its highly**

**accessible**

**approach will also**

**appeal to**

**researchers,**

**postgraduate**

**students and**

**academic**

**lecturers.**

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***This book is a  
compilation of  
research work in  
the***

***interdisciplinary  
areas of  
electronics,  
communication,  
and computing.***

***This book is  
specifically  
targeted at  
students, research***

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***scholars and  
academicians. The***

***book covers the***

***different***

***approaches and***

***techniques for***

***specific***

***applications, such***

***as particle-swarm***

***optimization,***

***Otsu's function***

***and harmony***

***search***

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**optimization**

**algorithm, triple**

**gate silicon on**

**insulator**

**(SOI)MOSFET,**

**micro-Raman and**

**Fourier Transform**

**Infrared**

**Spectroscopy**

**(FTIR) analysis,**

**high-k dielectric**

**gate oxide,**

**spectrum sensing**



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*in cognitive radio,*

*microstrip*

*antenna, Ground-*

*penetrating radar*

*(GPR) with*

*conducting*

*surfaces, and*

*digital image*

*forgery detection.*

*The contents of*

*the book will be*

*useful to academic*

*and professional*

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**researchers alike.**

Microstrip

**In this book,**

Antenna By  
**experts from**

**academia and**

**industry present**

**the latest**

**advances in**

**scientific theory**

**relating to applied**

**electromagnetics**

**and examine**

**current and**

**emerging**

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***applications***

***particularly within***

***the fields of***

***electronics,***

***communications,***

***and computer***

***technology. The***

***book is based on***

***presentations***

***delivered at***

***APPEIC 2014, the***

***1st Applied***

***Electromagnetic***

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***International  
Conference, held  
in Bandung,***

***Indonesia in  
December 2014.***

***The conference  
provided an ideal  
platform for  
researchers and  
specialists to  
deliver both  
theoretically and  
practically***

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***oriented***

***contributions on a***

***wide range of***

***topics relevant to***

***the theme of***

***nurturing applied***

***electromagnetics***

***for human***

***technology. Many***

***novel aspects***

***were addressed,***

***and the***

***contributions***

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Truncated Square  
Microstrip  
Antenna By  
***selected for this  
book highlight the  
relevance of  
advances in  
applied  
electromagnetics  
to a variety of  
industrial  
engineering  
problems and  
identify exciting  
future directions  
for research.***

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Microstrip

Antenna By

***A practical book  
written for  
engineers who  
design and  
use antennas The  
author has many  
years of hands on  
experience  
designing antennas  
that were used in  
such applications  
as the Venus and  
Mars missions of***

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Microstrip

Antenna By

***NASA The book covers all important topics of modern antenna design for communications Numerical methods will be included but only as much as are needed for practical applications***



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***Circularly***

***Polarized Antenna***

***Technology***

***Proceedings of***

***International***

***Conference on***

***Wireless***

***Communication***

***ICWiCOM 2019***

***Digest***

***Microstrip Antenna***

***Design Handbook***

***Proceedings of***

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**OWT 2019**

*This book discusses  
reliability*

*applications for  
power systems,  
renewable energy  
and smart grids and  
highlights trends in  
reliable*

*communication,  
fault-tolerant  
systems, VLSI  
system design and  
embedded systems.*

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***Further, it includes chapters on***

***software reliability***

***and other computer***

***engineering and***

***software***

***management-related***

***disciplines, and also***

***examines areas***

***such as big data***

***analytics and***

***ubiquitous***

***computing.***

***Outlining novel,***

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*innovative concepts*

*in applied areas of*

*reliability in*

*electrical,*

*electronics and*

*computer*

*engineering*

*disciplines, it is a*

*valuable resource*

*for researchers and*

*practitioners of*

*reliability theory in*

*circuit-based*

*engineering*

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**domains.**

**Microstrip patch**

**antennas have**

**become the favorite**

**of antenna**

**designers because**

**of their versatility**

**and having the**

**advantages of**

**planar profile, ease**

**of fabrication,**

**compatibility with**

**integrated circuit**

**technology, and**

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***conformability with  
a shaped surface.***

Microstrip

***There is a need for  
graduate students  
and practicing  
engineers to gain an  
in depth***

***understanding of  
this subject. The  
first edition of this  
book, published in  
2011, was written  
with this purpose in  
mind. This second***

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*edition contains*

*approximately one*

*third new materials.*

*The authors, Prof KF*

*Lee, Prof KM Luk*

*and Dr HW Lai, have*

*all made significant*

*contributions in the*

*field. Prof Lee and*

*Prof Luk are IEEE*

*Fellows. Prof Lee*

*was the recipient of*

*the 2009 John Kraus*

*Antenna Award of*

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Microstrip

Antenna

***the IEEE Antennas and Propagation Society while Prof. Luk receives the same award in 2017, both in recognition of their contributions to wideband microstrip antennas.***

***Issues for 1973- cover the entire IEEE technical literature.***



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Microstrip

Antennas By

***This book focuses on elementary concepts of both radio frequency energy harvesting (RFEH) and wireless power transfer (WPT), and highlights their fundamental requirements followed by recent advancements. It provides a***

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**systematic overview  
of the key**

Microstrip

**components**

**required for RFEH**

**and WPT**

**applications and**

**also**

**comprehensively**

**introduces the**

**pioneering research**

**advancements**

**achieved to date.**

**The state-of-the-art**

**circuit design**

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*topologies for the  
two different*

*applications are*

*presented mainly in*

*terms of antenna*

*operating*

*frequencies,*

*polarization*

*characteristics,*

*efficient matching*

*network circuits,*

*rectifier topologies,*

*and overall rectenna*

*systems. The book*

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***serves as a single  
point of reference  
for practicing  
engineers and  
researchers  
searching for  
potential sources  
and elements  
involved in the  
RFEH system as  
well as in the WPT  
system, and need  
rapid training and  
design guidelines in***

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*the following areas:*

- *Different sensing elements used in RFEH and WPT •*

- *Inclusions of mathematical*

- *expressions and*

- *design problems •*

- *Illustration of some*

- *design examples*

- *and performance*

- *enhancement*

- *techniques*

- *Recent Progress in*

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**Surface**  
Microstrip  
**Electromagnetic**  
Antenna By  
**Modes**  
**Microwave Systems**  
**and Applications**  
**Best Selected**  
**Papers of the Third**  
**International**  
**Conference on**  
**REDSET 2016**  
**Circularly Polarized**  
**Antennas**  
**Elements of Radio**  
**Frequency Energy**

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***Harvesting and***

***Wireless Power***

***Transfer Systems***

***Compact and***

***Broadband***

***Microstrip Antennas***

This book addresses a broad range of topics on antennas for space applications. First, it introduces the fundamental methodologies of

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space antenna design,

Microstrip  
modelling and

Antenna By  
analysis as well as the

state-of-the-art and

anticipated future

technological

developments. Each of

the topics discussed

are specialized and

contextualized to the

space sector.

Furthermore, case

studies are also



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provided to  
demonstrate the  
design and  
implementation of  
antennas in actual  
applications. Second,  
the authors present a  
detailed review of  
antenna designs for  
some popular  
applications such as  
satellite  
communications,

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space-borne synthetic  
aperture radar (SAR),

Microstrip

Antenna By  
Global Navigation

Satellite Systems

(GNSS) receivers,

science instruments,

radio astronomy,

small satellites, and

deep-space

applications. Finally it

presents the reader

with a comprehensive

path from space

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antenna development

Microstrip  
basics to specific

Antenna By  
individual

applications. Key

Features: Presents a

detailed review of

antenna designs for

applications such as

satellite

communications,

space-borne SAR,

GNSS receivers,

science instruments,

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small satellites, radio

astronomy, deep-

space applications

Addresses the space

antenna development

from different angles,

including

electromagnetic,

thermal and

mechanical design

strategies required for

space qualification

Includes numerous

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case studies to

demonstrate how to

design and implement

antennas in practical

scenarios Offers both

an introduction for

students in the field

and an in-depth

reference for antenna

engineers who

develop space

antennas This book

serves as an excellent

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reference for

researchers,

professionals and

graduate students in

the fields of antennas

and propagation,

electromagnetics, RF/

microwave/millimetre

wave systems, satellite

communications,

radars, satellite remote

sensing, satellite

navigation and

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spacecraft system

engineering, It also

aids engineers

technical managers

and professionals

working on antenna

and RF designs.

Marketing and

business people in

satellites, wireless,

and electronics area

who want to acquire a

basic understanding of

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Microstrip  
Antenna By

the technology will  
also find this book of  
interest.

Every day, millions of  
people are unaware of  
the amazing processes  
that take place when  
using their phones,  
connecting to  
broadband internet,  
watching television, or  
even the most basic  
action of flipping on a



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Microstrip

Antenna By

light switch. Advances are being continually made in not only the transmission of this data but also in the new methods of receiving it. These advancements come from many different sources and from engineers who have engaged in research, design, development,

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and implementation of

electronic equipment

used in

communications

systems. This volume

addresses a selection

of important current

advancements in the

electronics and

communications

engineering fields,

focusing on signal

processing, chip

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design, and

networking

technology. The

sections in the book

cover: Microwave and

antennas

Communications

systems Very large-

scale integration

Embedded systems

Intelligent control and

signal processing

systems

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Microstrip  
Antenna By

The book reviews developments in the following fields: circular microstrip antennas; microstrip patch antennas; circular polarisation and bandwidth; microstrip dipoles; multilayer and parasitic configurations; wideband flat dipole

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and short-circuit

microstrip patch

elements and arrays;

numerical analysis;

multiport network

approach;

transmission-line

model; rectangular

microstrip antennas;

low-cost printed

antennas; printed

phased-array

antennas; circularly

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polarised antenna

Microstrip  
arrays; microstrip

Antenna By  
antenna feeds;

substrate technology;

computer-aided design

of microstrip and

triplane circuits;

resonant microstrip

antenna elements and

arrays for aerospace

applications; mobile

and satellite systems;

conical conformal

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microstrip tracking  
Microstrip  
Antenna By  
Antenna; and  
microstrip field

diagnostics.

This book gathers  
high-quality research  
papers presented at the  
First International  
Conference, ICSC  
2019, organised by  
THDC Institute of  
Hydropower  
Engineering and

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Technology, Tehri,

India, from 20 to 21

April 2019. The book

is divided into two

major sections □

Intelligent Computing

and Smart

Communication.

Some of the areas

covered are Parallel

and Distributed

Systems, Web

Services, Databases



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and Data Mining

Applications, Feature

Selection and Feature

Extraction, High-

Performance Data

Mining Algorithms,

Knowledge

Discovery,

Communication

Protocols and

Architectures, High-

speed

Communication, High-

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Voltage Insulation

Technologies, Fault

Detection and

Protection, Power

System Analysis,

Embedded Systems,

Architectures,

Electronics in

Renewable Energy,

CAD for VLSI, Green

Electronics, Signal

and Image Processing,

Pattern Recognition

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Microstrip  
Resolution Analysis  
Antenna By  
and Wavelets, 3D and  
Stereo Imaging, and  
Neural Networks.  
Space Antenna  
Handbook  
ETAERE-2016  
International  
Aerospace Abstracts

Advances in Decision  
Sciences, Image

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Microstrip  
and Computer Vision  
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