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fundamental mixer
types, as well as
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describes many

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MIMO transceivers and provides the practical solutions for these issues.

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power amplifier,
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nonlinearity, DC-offset, I/Q imbalance and phase noise and their compensation in OFDM and MIMO techniques. In addition, it provides the most practical techniques to realize RF front-

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*The ultimate
practical resource
for today's RF
system design*

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*Consequently,
both practicing
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industry

professionals need

to be able to solve

ever more

complex problems

of RF design.

Blending

theoretical rigor

with a wealth of

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module

*specifications **

How phase noise

affects system

performance and

where it comes

*from * How*

intermodulation

products (IMs)

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change with signal

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change differently
An essential
resource for
today's RF system
engineers, the
text covers
important topics
in the areas of
system noise and
nonlinearity,*

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*conversion, and
phase noise.*

*Along with a
wealth of practical
examples using
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The effect is that the reader comes away with a deep insight not only of the design formulation but

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*answers to how
and why those
formulations work.
This is especially
valuable for
engineers whose
careers involve
research and
product
development,
wherein the
applicability of the*

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applied principles must be understood. The scope of this book extends from topics for a first course in electrical engineering, in which impedances are analyzed using complex

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numbers, through the introduction of transmission lines that are analyzed using the Smith Chart, and on to graduate level subjects, such as equivalent circuits for obstacles in hollow waveguides,

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*analyzed using
Green's Functions.
This book is a
virtual
encyclopedia of
circuit design
methods. Despite
the complexity,
topics are
presented in a
conversational
manner for ease*

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only an excellent
text at the
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reference for the
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constructed to

perform jamming

missions, which

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India and has
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(FSS),
substrate
integrated
waveguides
(SIW),
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and hardware

targeting. Readers

will gain an

understanding of

the core concepts

behind wireless

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*hardware, such as
the radio*

*frequency front-
end, analog-to-
digital and digital-
to-analog
converters, as well
as various
processing
technologies.*

*Moreover, this
volume includes
chapters on timing
estimation,*

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*matched filtering,
frame*

synchronization

*message decoding,
and source coding.*

*The orthogonal
frequency division
multiplexing is*

*explained and
details about HDL*

code generation

and deployment

are provided. The

book concludes

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with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included

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in the field.*

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text covers high-

speed, RF, mm-

wave, and optical

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nanoscale CMOS,
SiGe BiCMOS, and
III-V technologies.*

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problems, and
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*simulation and
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*affecting circuit
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play a critical
role in modern
electronic
warfare
communications
and radar.

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Engineers need

to have a solid

understanding of

the design

principles of

this technology

and how antenna

systems are used

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book serves as a

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in-depth

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applications.

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of each type of

antenna,

including

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operating

principles of circuit elements of all

kinds, from lumped elements to

transmission lines, waveguides,

optical fibers, and quasi-optical

structures.

Standard passive

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system

components like

filters, splitters,

couplers, hybrids,

baluns, and

antennas are

explained to

acclimate the

reader to

considering

multiple

technological

solutions for

common design

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problems. A basic overview of active circuit designs, such as amplifiers, mixers, and multipliers is also provided, along with discussion of the performance characteristics of electronic systems, including noise and linearity. Emphasis is placed on

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visualization and understanding of how and why electronic circuits of all frequencies are built and operate the way they do. Readers learn how to match an amplifier for optimum noise performance over the broadest bandwidth with the

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fewest number of elements and how to visualize the coupling of various modes in a mixed waveguide-type structure and avoid resonances due to trapped, higher-order modes. The book provides the tools needed to design and optimize a

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launcher from
microstrip into

waveguide, and

whether the best

characteristics can

be achieved by

incorporating

matching elements

in the microstrip

section, the

waveguide section,

or both. Packed

with references

and examples,

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readers learn not only how to do the math but what the math means.

The growing interest in commercial RF applications and high-frequency engineering has triggered a scramble for fundamental design and analysis

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information. This expertly compiled resource gives microwave engineers instant, one-stop access to a vast range of essential source material in a single convenient volume. Radio Frequency Integrated Circuits and Systems