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Conference on
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and findings on all
aspects of
engineering
applications of
artificial intelligence.

The book covers
research in the
areas of artificial
intelligence,
machine learning,
and deep learning
applications in
health care,
agriculture,

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business and
security. It also

includes research in

Manual
core concepts of

computer networks,

intelligent system

design and

deployment, real-

time systems, WSN,

sensors and sensor

nodes, SDN and

NFV. As such it is a

valuable resource

for students,

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academics and
practitioners in
industry working on
AI applications.

This market-leading
textbook continues
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innovation built on
the solid
pedagogical
foundation that
instructors expect
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Smith. New to this
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study of the
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BJT and their
application in
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Improved treatment
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topics, including

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amplifiers, IC filters

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new "expand-your-

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circuits and devices

views a circuit as an

entire electronic

system, rather than

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as a collection of individual devices.

Providing students with the tools

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introduces the

MOSFET, BJT, and

JFET in a single

chapter on device

properties; covers

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the non-ideal properties of op-amps using an approach that can be understood by those with little prior knowledge of transistor theory; and contains an optional discussion of photonic devices - including the photodiode, phototransistor,

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light-emitting diode,
and laser diode.

Oxford University

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changes in
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particular. These

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Techniques
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Design
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Application
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explains the***

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*application of
recent advances
in*

*computational
intelligence -
algorithms,
design
methodologies,
and synthesis
techniques - to
the design of
integrated
circuits and*

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systems. It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high-performance digital, VLSI, radio-

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mixed-signal

(AMS) and radio-

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circuits, with

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*17 chapters
grouped into
parts on analog
and mixed-
signal
applications,
and radio-
frequency
design. It will
be of interest
to
practitioners
and researchers*

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*in computer
science and
electronics
engineering
engaged with
the design of
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circuits.*

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problem and
solutions of*

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varying degrees

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facilitate self-

study.

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introduces

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*to a broad
audience. The
author blends
theory and
practice to
bring readers
up-to-date in
key concepts,
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principles and
practical
applications of
wireless*

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easily

accessible,

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mathematics and

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been thoroughly
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reflect the
latest
challenges
associated with
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used in*

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unique

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design

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techniques.

Radio frequency

(RF) power

amplifiers are

the fundamental

building blocks

used in a vast

variety of

wireless

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*transmitters,
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practice, RF
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understanding
of the key
concepts, the
principle of
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synthesis,
analysis, and
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*update boasts:
up to date end
of chapter
summaries;
review
questions and
problems; an
expansion on
key concepts;
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related to real-
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applications*

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questions and
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fundamental
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how these properties can
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and their applications in

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ideologies for

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ctures—bottom-up and

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as is the idea that the

two methodologies can

be combined to allow

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types of image sensors
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photon electronic
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photon imaging"

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various aspects of
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coverage that
combines and

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"Microelectronic
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known for being a

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and design notes.
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methodology, and
"design note" boxes.
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examples, including

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new design examples,
has been increased,
giving students more
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Additionally, some of
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mathematical material
has been moved to the
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performed with the
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circuit analysis for
microelectronic
circuits. This text is
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companion to Sedra
& Smith's
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Edition, but is also a
very effective
standalone tutorial
text on computer-
aided circuit

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This book presents design methods and considerations for digitally-assisted wideband millimeter-wave transmitters. It addresses comprehensively both RF design and digital implementation

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simultaneously, in order to design energy- and cost-efficient high-performance transmitters for mm-wave high-speed communications. It covers the complete design flow, from link budget assessment to the transistor-level

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design of different
RF front-end blocks,
such as mixers and
power amplifiers,
presenting different
alternatives and
discussing the
existing trade-offs.

The authors also
analyze the effect of
the imperfections of
these blocks in the
overall performance,

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while describing techniques to correct and compensate for them digitally. Well-known techniques are revisited, and some new ones are described, giving examples of their applications and proving them in real integrated circuits.

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This book
constitutes the
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proceedings of the
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Industrial Systems,
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in Costa de

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organized in topical
sections on
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systems, service
orientation,
knowledge and
content
management,
human interaction,
Petri nets, smart
systems, robotic

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systems,
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perceptual
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systems, signal
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processing, energy,
renewable energy,
energy smart grid,
power electronics,
electronics,
optimization in
electronics,
telecommunications
and electronics, and
electronic materials.

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The book also includes papers from the Workshop on Data Analysis and Modeling Retina in Health and Disease.

Praise for CMOS:
Circuit Design,
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the Technical

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Reviewers "A
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presented as they
are needed for 'just-
in-time' learning.
Simulating and
designing circuits
using SPICE is
emphasized with
literally hundreds of
examples. Very few

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much detail as this
one. Highly
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CMOS circuit design
from the ground up.
With coverage of
process integration,

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layout, analog and
digital models, noise
mechanisms,
memory circuits,
references,
amplifiers,
PLLs/DLLs,
dynamic circuits,
and data converters,
the text is an
excellent reference
for both experienced
and novice

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the success of the

first with new

chapters that cover

additional material

such as

oversampled

converters and non-

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volatile memories.

This is becoming
the de facto
standard textbook to
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Engineer, AMI
Semiconductor
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design to

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CMOS: Circuit
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design of both
analog and digital
integrated circuits,
offering a vital,
contemporary view
of a wide range of
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blocks, the BSIM model, data converter architectures, and much more. This edition takes a two-path approach to the topics: design techniques are developed for both long- and short-channel CMOS technologies and

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then compared. The results are multidimensional explanations that allow readers to gain deep insight into the design process. Features include: Updated materials to reflect CMOS technology's movement into nanometer sizes

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Discussions on
phase- and delay-
locked loops, mixed-
signal circuits, data
converters, and
circuit noise More
than 1,000 figures,
200 examples, and
over 500 end-of-
chapter problems In-
depth coverage of
both analog and
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Real-world process

parameters and

design rules The

book's Web site,

CMOSedu.com,

provides: solutions

to the book's

problems; additional

homework problems

without solutions;

SPICE simulation

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HSPICE, LTspice,
and WinSpice;

layout tools and

examples for

actually fabricating a

chip; and videos to

aid learning

Electronic Devices

and Circuits

RF Power Amplifiers

Proceeding of Fifth

International

Conference on

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KC's Problems and
Solutions for
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Amplifiers, Analog
to Digital
Convertors, Analog

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Computer Aided
Design

This market-leading
textbook continues
its standard of
excellence and
innovation built on
the solid pedagogical
foundation that
instructors expect
from Adel S. Sedra
and Kenneth C.

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Smith. All material in the international sixth edition of

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Circuits is thoroughly

updated to reflect

changes in

technology-CMOS

technology in

particular. These

technological changes

have shaped the

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book's organization and topical coverage, making it the most current resource available for teaching tomorrow's engineers how to analyze and design electronic circuits. In addition, end-of-chapter problems unique to this version of the text

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help preserve the integrity of instructor assignments.

The book provides instructions on building circuits on breadboards, connecting the Analog Discovery wires to the circuit under test, and making electrical

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measurements.

Various measurement techniques are described and used in this book, including: impedance measurements, complex power measurements, frequency response measurements, power

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spectrum
measurements,
current versus voltage
characteristic
measurements of
diodes, bipolar
junction transistors,
and Mosfets. The
book includes end-of-
chapter problems for
additional exercises
geared towards hands-

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on learning,
experimentation,
comparisons between
measured results and
those obtained from
theoretical
calculations.

By helping students
develop an intuitive
understanding of the
subject,

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teaches them to think
like engineers. The
second edition of
Razavi ' s

Microelectronics
retains its hallmark
emphasis on analysis
by inspection and
building students '
design intuition, and
it incorporates a host
of new pedagogical

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features that make it easier to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty

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and more clearly
associated with
specific chapter
sections.

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Circuits Oxford
University Press,
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Networks: 5G and a
Vision of 6G

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foundations of
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from one of the
leading voices in
the field The newly
revised
Photodetectors:
Devices, Circuits
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delivers a
thoroughly updated
exploration of the
fundamentals of

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photodetection and
the novel
technologies and
concepts that have
arisen since the
release of the first
edition twenty
years ago. The
book offers
discussions of
established and
emerging
photodetection

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technologies,
including
photomultipliers,
the SPAD, the
SiPM, the SNSPD,
the UTC, the
WGPD/TWPD, the
QWIP, and the LT-
GaAs. New
examinations of
correlation
measurements on
ultrafast pulses and

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single-photon detectors for quantum communications and LiDARs have also been added. Each chapter includes selected problems for students to work through to aid in learning and retention. A booklet

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of solutions is also provided. The book is especially ideal for students and faculties of Engineering, with an emphasis on first principles, design, and the engineering of photodetectors. Issues in the book are grouped

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through the development of concepts, as opposed to collections of technical details. Perfect for undergraduate students interested in the science or design of modern optoelectronics,
Photodetectors:

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Devices, Circuits

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and Applications

also belongs on the

bookshelves of

professors teaching

PhD seminars in

advanced courses

on photodetection

and noise, as well

as engineers and

physicists seeking a

guide to an

optimum

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photodetection
solution.

This peer-reviewed
book explores the
methodologies that
are used for
effective research,
design and
innovation in the
vast field of
millimeter-wave
circuits, and
describes how

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these have to be modified to fit the uniqueness of high-frequency nanoelectronics design. Each chapter focuses on a specific research challenge related to either small form factors or higher operating frequencies. The

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book first examines nanodevice scaling and the emerging electronic design automation tools that can be used in millimeter-wave research, as well as the singular challenges of combining deep-submicron and millimeter-wave

design. It also demonstrates the importance of considering, in the millimeter-wave context, system-level design leading to differing packaging options. Further, it presents integrated circuit design methodologies for

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all major transceiver blocks typically employed at millimeter-wave frequencies, as these methodologies are normally fundamentally different from the traditional design methodologies used in analogue and

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lower-frequency
electronics. Lastly,

the book discusses

the methodologies

of millimeter-wave

research and

design for extreme

or harsh

environments,

rebooting

electronics, the

additional

opportunities for

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terahertz research,

and the main

differences

between the

approaches taken

in millimeter-wave

research and

terahertz research.

This textbook for

core courses in

Electronic Circuit

Design teaches

students the design

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and application of a
broad range of
analog electronic
circuits in a
comprehensive and
clear manner.
Readers will be
enabled to design
complete,
functional circuits
or systems. The
authors first
provide a

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foundation in the theory and operation of basic electronic devices, including the diode, bipolar junction transistor, field effect transistor, operational amplifier and current feedback amplifier. They then present

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comprehensive
instruction on the
design of working,
realistic electronic
circuits of varying
levels of
complexity,
including power
amplifiers,
regulated power
supplies, filters,
oscillators and
waveform

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generators. Many examples help the reader quickly become familiar with key design parameters and design methodology for each class of circuits. Each chapter starts from fundamental circuits and

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develops them step-by-step into a broad range of

applications of real circuits and

systems. Written to be accessible to

students of varying backgrounds, this

textbook presents the design of

realistic, working analog electronic

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circuits for key systems; Includes worked examples of functioning circuits, throughout every chapter, with an emphasis on real applications; Includes numerous exercises at the end of each chapter; Uses simulations to

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demonstrate the functionality of the designed circuits; Enables readers to design important electronic circuits including amplifiers, power supplies and oscillators.

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Microelectronics,
Computing &
Communication
Systems (MCCS
2020). It discusses
the latest
technological
trends and
advances in MEMS
and
nanoelectronics,

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wireless
communication,
optical
communication,
instrumentation,
signal processing,
image processing,
bioengineering,
green energy,
hybrid vehicles,
environmental
science, weather
forecasting, cloud

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computing,
renewable energy,

RFID, CMOS

sensors, actuators,

transducers,

telemetry systems,

embedded systems

and sensor network

applications. It

includes papers

based on original

theoretical,

practical and

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experimental
simulations,
development,
applications,
measurements and
testing. The
applications and
solutions discussed
here provide
excellent reference
material for future
product
development.

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International
Scientific
Conference
“Intelligent
Information

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Technologies for
Industry” (IITI'17)

PIC

Microcontrollers

The fourth edition of
Microelectronic
Circuits is an

extensive revision of
the classic text by
Sedra and Smith. The
primary objective of
this textbook remains
the development of the

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Manual of

microcontroller based solutions to everyday design problems in electronics, is the most important development in the field since the introduction of the microprocessor itself.

The PIC family is

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established as the
number one
microcontroller at an
introductory level.

Assuming no prior
knowledge of
microprocessors,
Martin Bates provides
a comprehensive
introduction to
microprocessor
systems and
applications covering
all the basic principles

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of microelectronics.

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Using the latest

Windows development

software MPLAB, the

author goes on to

introduce

microelectronic

systems through the

most popular PIC

devices currently used

for project work, both

in schools and

colleges, as well as

undergraduate

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university courses.
Students of
introductory level
microelectronics,
including
microprocessor /
microcontroller
systems courses,
introductory
embedded systems
design and control
electronics, will find
this highly illustrated
text covers all their

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requirements for
working with the PIC.

Part A covers the
essential principles,

concentrating on a
systems approach.

The PIC itself is
covered in Part B, step
by step, leading to
demonstration

programmes using
labels, subroutines,
timer and interrupts.

Part C then shows

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how applications may be developed using the latest Windows software, and some hardware prototyping methods. The new edition is suitable for a range of students and PIC enthusiasts, from beginner to first and second year undergraduate level. In the UK, the book is of specific relevance

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to AVCE, as well as
BTEC National and
Higher National
programmes in
electronic engineering.

- A comprehensive introductory text in microelectronic systems, written round the leading chip for project work
- Uses the latest Windows development software, MPLAB, and the most

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popular types of PIC,
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for accessible and low-
cost practical work.

Manual
Focuses on the 16F84
as the starting point for
introducing the basic
architecture of the
PIC, but also covers
newer chips in the
16F8X range, and
8-pin mini-PICs

This volume of
Advances in Intelligent
Systems and

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Computing highlights key scientific achievements and innovations in all areas of automation, informatization, computer science, and artificial intelligence. It gathers papers presented at the IITI 2017, the Second International Conference on Intelligent Information

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Industry, which was
held in Varna, Bulgaria

on September 14–16,
2017. The conference

was jointly co-

organized by

Technical University of

Varna (Bulgaria),

Technical University of

Sofia (Bulgaria), VSB

Technical University of

Ostrava (Czech

Republic) and Rostov

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State Transport
University (Russia).

The IIT 2017 brought together international researchers and industrial practitioners interested in the development and implementation of modern technologies for automation, informatization, computer science, artificial intelligence,

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transport and power
electrical engineering.

In addition to
advancing both
fundamental research
and innovative
applications, the
conference is intended
to establish a new
dissemination platform
and an international
network of
researchers in these
fields.

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This book contributes to the body of scholarly knowledge by exploring the main ideas of wireless networks of past, present, and future, trends in the field of networking, the capabilities of 5G and technologies that are potential enablers of 6G, potential 6G applications and

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Mannar

requirements, as well as unique challenges and opportunities that 6G research is going to offer over the next decade. It covers research topics such as communication via millimeter-waves, terahertz waves and visible light to enable faster speeds, as well as research into achieving other basic

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requirements of 6G networks. These include low end-to-end latency, high energy efficiency, coverage that is ubiquitous and always-on, integration of terrestrial wireless with non-terrestrial networks, network management that is made more effective by connected intelligence with

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machine learning capabilities, as well as support for the evolution of old service classes and support for new ones.

Smart Electrical Grid System

Hands-on Learning with Analog Discovery

MCCS 2020

Solutions Manual for Microelectronic Circuits

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Smart technologies such as artificial intelligence, and machine learning plays a vital role in modeling, analysis, performance prediction, effective control, and utilization of smart

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energy systems. This text discusses grid integration of renewable energy resources, and the challenges to reduce the losses incurred with efficient power transmission.

Many interesting design trends are shown by the six papers on operational

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*amplifiers (Op Amps).
Firstly, there is the
line of stand-alone
Op Amps using a
bipolar IC technology
which combines high-
frequency and high
voltage. This line is
represented in papers
by Bill Gross and
Derek Bowers. Bill
Gross shows an
improved high-*

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*frequency
compensation
technique of a high
quality three stage Op
Amp. Derek Bowers
improves the gain and
frequency behaviour
of the stages of a two-
stage Op Amp. Both
papers also present
trends in current-
mode feedback Op
Amps. Low-voltage*

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*bipolar Op Amp
design is presented by*

leroen Fonderie. He

shows how multipath

nested Miller

compensation can be

applied to turn rail-to-

rail input and output

stages into high

quality low-voltage

Op Amps. Two papers

on CMOS Op Amps

by Michael Steyaert

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*and Klaas Bult show
how high speed and
high gain VLSI*

*building blocks can
be realised. Without
departing from a
single-stage OT A
structure with a
folded cascode
output, a thorough
high frequency
design technique and
a gain-boosting*

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*Microelectronic
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*technique contributed
to the high-speed and
the high-gain
achieved with these
Op Amps. . Finally.
Rinaldo Castello
shows us how to
provide output power
with CMOS buffer
amplifiers. The
combination of class
A and AB stages in a
multipath nested*

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Miller structure provides the required linearity and bandwidth.

In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field

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*of electrical
engineering. Our
knowledge continues
to grow, and so does
the Handbook. For
the third edition, it
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set of six books
carefully focused on a
specialized area or
field of study. Each
book represents a
concise yet definitive*

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*collection of key
concepts, models, and
equations in its
respective domain,
thoughtfully gathered
for convenient access.
Circuits, Signals, and
Speech and Image
Processing presents
all of the basic
information related to
electric circuits and
components, analysis*

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*of circuits, the use of
the Laplace*

transform, as well as

signal, speech, and

image processing

using filters and

algorithms. It also

examines emerging

areas such as text-to-

speech synthesis, real-

time processing, and

embedded signal

processing. Each

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*article includes
defining terms,*

references, and

sources of further

information.

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specialties, Circuits,

Signals, and Speech

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the latest
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developments, the
Edition, Solution
broadest scope of
Manual
coverage, and new
material on
biometrics.

*Microelectronics is a
challenging course to
many undergraduate
students and is often
described as very
messy. Before taking
this course, all the*

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*students have learned
circuit analysis,
where basically all
the problems can be
solved by applying
Kirchhoff's*

CMOS

Volume 2

*International
Conference on
Artificial
Intelligence:*

Advances and

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Applications 2019

Third IFIP WG

5.5/SOCOLNET

Doctoral Conference

on Computing,

Electrical and

Industrial Systems,

DoCEIS 2012, Costa

de Caparica,

Portugal, February

27-29, 2012,

Proceedings

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