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*Linear Systems and
Signals, Third
Edition, has been*
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text uses*

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which allows access to the Student's Book Companion Site. On the BCS the student will find:

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*demonstrations with code. This includes a Transmission Lines simulator created by the author. **

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systems, consisting of readers and tags, are expected to replace bar codes as the primary means of identification, inventory and billing of everyday items. The tags typically consist of an RFID chip placed on a

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*flexible film
containing a planar
antenna. The
antenna captures
radiation from the
reader's signal to
power the tag
electronics, which
then responds to the
reader's query. The
PENI Tag (Product
Emitting Numbering
Identification Tag)
shown, developed by*

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*the University of
Pittsburgh in a team
led by Professor
Marlin H. Mickle,
integrates the
antenna with the rest
of the tag
electronics. RFID
systems involve
many
electromagnetics
concepts, including
antennas, radiation,
transmission lines,*

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*and microwave
circuit components.*

*(Photo courtesy of
Marlin H. Mickle.)*

*Fundamental of
Engineering
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only presents the
fundamentals of
electromagnetism in
a concise and logical
manner, but also
includes a variety of
interesting and*

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important applications. While adapted from his popular and more extensive work, Field and Wave Electromagnetics, this text incorporates a number of innovative pedagogical features. Each chapter begins with an overview which serves to offer

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qualitative guidance to the subject matter and motivate the student. Review questions and worked examples throughout each chapter reinforce the student's understanding of the material. Remarks boxes following the review questions and margin notes

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*throughout the book
serve as additional
pedagogical aids.*

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*Biosensors: Device
Platforms,
Biorecognition,
Applications provides
a comprehensive
overview of the field
of fiber optic sensors
using an
interdisciplinary
approach that covers*

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the fabrication of sensing devices and optical hardware, the functionalization to perform selective biorecognition, and the main applications of biosensors, with a present and a future outlook. Chapters discuss the principles of light propagation and the sensing devices suitable to

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*perform biosensing
with optical fibers,
the process to
functionalize the
previous devices to
selective biosensing,
and applications in
cells, small
molecules,
biomarkers and
protein sensing, with
a birds eye view on
the most important
results. This book*

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provides a coherent picture of fiber optic biosensors, from the start (the device) to the end (the application), explaining in simple terms what is the whole process for development of a biosensor. The book also contains practical material (e.g. commercial

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fabrication

instructions, medical
standards for
biocompatibility) that
cannot be easily
found elsewhere, and
this is very useful for
researchers to plan
their development
and build their labs.

Covers the
technologies and
operating principles

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*of optical fiber
devices used in
biosensing Contains
chapters on the
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to functionalize a
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the main applications
of fiber optic
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worldwide popularity
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described by a set of
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but also for the
possibility of
simulating non-
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dependent studies.

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Filling a gap in
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for the simulation of

semiconductor

processes, devices

and integrated

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circuits. The
Workshop on
Computational
Electronics was
intended to be a
forum for the dis
cussion of the state-of-
the-art of device
simulation. Three
major research areas
were covered:
conventional
simulations, based on
the drift-diffusion and

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the hydrodynamic models; Monte Carlo methods and other techniques for the solution of the Boltzmann transport equation; and computational approaches to quantum transport which are relevant to novel devices based on quantum interference and

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resonant tunneling phenomena. Our goal was to bring together researchers from various disciplines that contribute to the advancement of device simulation.

These include Computer Science, Electrical Engineering, Applied Physics and Applied Mathematics. The suc

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cess of this multidisciplinary formula was proven by numerous interactions which took place at the Workshop and during the following three-day Short Course on Computational Electronics. The format of the course, including a number of tutorial lectures, and

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the large attendance of graduate students, stimulated many discussions and has proven to us once more the importance of cross-fertilization between the different disciplines.

Metrology is a constantly evolving field, and one which has developed in many ways in the last

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four decades. This book presents the proceedings of the Enrico Fermi Summer School on the topic of Metrology, held in Varenna, Italy, from 26 June to 6 July 2017. This was the 6th Enrico Fermi summer school devoted to metrology, the first having been held in 1976. The

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2017 program addressed two major new directions for metrology: the work done in preparation for a possible re-definition of four of the base units of the SI in 2018, and the impact of the application of metrology to issues addressing quality of life – such as global climate change and

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clinical and food
analysis – on science,
citizens and society.

The lectures were
grouped into three
modules: metrology
for quality of life;
fundamentals of
metrology; and
physical metrology
and fundamental
constants, and topics
covered included food
supply and safety;

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biomarkers;
monitoring climate
and air quality; new IS
units; measurement
uncertainty;
fundamental
constants; electrical
metrology; optical
frequency standards;
and photometry and
light metrology. The
book provides an
overview of the topics
and changes relevant

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to metrology today,
and will be of interest
to both academics
and all those whose
work involves any of
the various aspects of
this field.

This text focuses on
the synthesis,
properties and
applications of
nanostructures and
nanomaterials,
particularly inorganic

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nanomaterials. It provides coverage of the fundamentals and processing techniques with regard to synthesis, properties, characterization and applications of nanostructures and nanomaterials.

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Interference

(RFI), which

is the

reception of

undesired

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radio signals

originating

from digital

electronics

and electronic

equipment.

With today's

rapid

development of

radio

communication,

these

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*undesired
signals as
well as
signals due to
natural
phenomena such
as lightning,
sparking, and
others are
becoming
increasingly
important in*

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pipelines*

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