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***The design and analysis of
efficient data structures has
long been recognized as a key
component of the Computer***

*Science curriculum. Goodrich,
Tomassia and Goldwasser's
approach to this classic topic
is based on the object-oriented
paradigm as the framework of
choice for the design of data
structures. For each ADT*

presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces. The Java code implementing

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***fundamental data structures in
this book is organized in a
single Java package,
net.datastructures. This
package forms a coherent
library of data structures and
algorithms in Java specifically***

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*designed for educational
purposes in a way that is
complimentary with the Java
Collections Framework.
Pulse Code Modulation
Techniques brings together
the theory and practice of PCM*

at the physical layer, where the "bits meet the silicon", so to speak. The key topics of symbol encoding, detection and synchronization are discussed, in detail, both from a theoretical and a practical

*standpoint. Topics which have
been largely absent in text
books, such as multiplexing,
formatting and format
synchronization, are also
considered. Although PCM
evolved as a communication*

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*technology, it has become an
important technology in data
recording. In a sense,
magnetic or optical media are
just specialized
communication media and the
key technologies discussed in*

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***this book are just as important
to recording applications as to
communications. PCM codes
used for magnetic recording
applications are discussed
along with traditional
communication codes. The***

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***design, analysis and
implementation of a PCM
system requires knowledge of
very specific techniques
associated with detection,
synchronization and coding.
The techniques have evolved***

from both ad hoc methods and complex theory. One of the goals of this book is to bridge the gap between theory and practice in the key techniques. Matched filters are not only discussed theoretically, but

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**means for implementing them
are also considered. The same
is true with symbol
synchronization.**

**"This book provides a
comprehensive reference
source on next generation Web**

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***technologies and their
applications" --Provided by
publisher.***

***The book begins with an
overview of automation history
and followed by chapters on
PLC, DCS, and SCADA***

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***-describing how such
technologies have become
synonymous in process
instrumentation and control.
The book then introduces the
niche of Fieldbuses in process
industries. It then goes on to***

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***discuss wireless
communication in the
automation sector and its
applications in the industrial
arena. The book also discusses
the all-pervading IoT and its
industrial cousin, IIoT, which is***

*finding increasing applications
in process automation and
control domain. The last
chapter introduces OPC
technology which has strongly
emerged as a defacto standard
for interoperable data*

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***exchange between multi-
vendor software applications
and bridges the divide between
heterogeneous automation
worlds in a very effective way.
Key features: Presents an
overall industrial automation***

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*scenario as it evolved over the
years Discusses the already
established PLC, DCS, and
SCADA in a thorough and lucid
manner and their recent
advancements Provides an
insight into today's industrial*

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***automation field Reviews
Fieldbus communication and
WSNs in the context of
industrial communication
Explores IIoT in process
automation and control fields
Introduces OPC which has***

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*already carved out a niche
among industrial
communication technologies
with its seamless connectivity
in a heterogeneous automation
world Dr. Chanchal Dey is
Associate Professor in the*

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*Department of Applied Physics,
Instrumentation Engineering
Section, University of Calcutta.
He is a reviewer of IEEE,
Elsevier, Springer, Acta Press,
Sage, and Taylor & Francis
Publishers. He has more than*

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***80 papers in international
journals and conference
publications. His research
interests include intelligent
process control using
conventional, fuzzy, and neuro-
fuzzy techniques. Dr. Sunit***

***Kumar Sen is an ex-professor,
Department of Applied Physics,
Instrumentation Engineering
Section, University of Calcutta.
He was a coordinator of two
projects sponsored by AICTE
and UGC, Government of India.***

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He has published around 70 papers in international and national journals and conferences and has published three books - the last one was published by CRC Press in 2014. He is a reviewer of

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***Measurement, Elsevier. His
field of interest is new designs
of ADCs and DACs.***

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**title on Distributed Systems has
been thoroughly revised
throughout to reflect the state of
the art in this rapidly developing
field. It emphasizes the principles
used in the design and
construction of distributed**

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**computer systems based on
networks of workstations and
server computers.**

**Many of the initial developments
towards the Internet of Things
have focused on the combination
of Auto-ID and networked**

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infrastructures in business-to-business logistics and product lifecycle applications. However, the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively – it will also

enable a more convenient way of life. Since the term Internet of Things first came to attention when the Auto-ID Center launched their initial vision for the EPC network for automatically identifying and

**tracing the flow of goods within
supply-chains, increasing
numbers of researchers and
practitioners have further
developed this vision. The authors
in this book provide a research
perspective on current and future**

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developments in the Internet of Things. The different chapters cover a broad range of topics from system design aspects and core architectural approaches to end-user participation, business perspectives and applications.

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**methodologies, system
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architectures, and applications**

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heterogeneous camera networks,**

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**multi-camera object and event
detection, tracking, coding, smart
camera architecture and**

**middleware This book is the
definitive reference in multi-
camera networks. It gives clear
guidance on the conceptual and**

**implementation issues involved in
the design and operation of multi-
camera networks, as well as
presenting the state-of-the-art in
hardware, algorithms and system
development. The book is broad in
scope, covering smart camera**

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**architectures, embedded
processing, sensor fusion and
middleware, calibration and
topology, network-based detection
and tracking, and applications in
distributed and collaborative
methods in camera networks. This**

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book will be an ideal reference for university researchers, R&D engineers, computer engineers, and graduate students working in signal and video processing, computer vision, and sensor networks. Hamid Aghajan is a

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**Professor of Electrical
Engineering (consulting) at
Stanford University. His research
is on multi-camera networks for
smart environments with
application to smart homes,
assisted living and well being,**

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meeting rooms, and avatar-based communication and social interactions. He is Editor-in-Chief of Journal of Ambient Intelligence and Smart Environments, and was general chair of ACM/IEEE ICDS 2008. Andrea Cavallaro is

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**Reader (Associate Professor) at
Queen Mary, University of
London (QMUL). His research is
on target tracking and audiovisual
content analysis for advanced
surveillance and multi-sensor
systems. He serves as Associate**

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**Editor of the IEEE Signal
Processing Magazine and the
IEEE Trans. on Multimedia, and
has been general chair of IEEE
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homes, multimedia, and
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Comprehensive coverage of
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protocols and networking
technologies. The systems-**

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**oriented approach encourages
students to think about how
individual network components fit
into a larger, complex system of
interactions. This book has a
completely updated content with
expanded coverage of the topics of**

utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing.

There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a

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**network; the concepts of
switching, routing, and
internetworking; end-to-end
protocols; congestion control and
resource allocation; and end-to-
end data. Each chapter includes a
problem statement, which**

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**introduces issues to be examined;
shaded sidebars that elaborate on
a topic or introduce a related
advanced topic; What's Next?
discussions that deal with
emerging issues in research, the
commercial world, or society; and**

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including P2P, wireless, security,
and applications Increased focus
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Principles of Communication

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The first four chapters of the text describe different types of signals, modulation and demodulation of these signals, various transmission channels and noise encountered by the signals during propagation from sender to receiver end. Apart from

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this, this part of the book also deals with different forms of line communication systems. A brief introduction of information theory is also given at the end of the text so that the students become familiar with this aspect of communication systems.

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***The fundamentals and
implementation of digital
electronics are essential to
understanding the design and
working of consumer/industrial
electronics, communications,
embedded systems, computers,
security and military equipment.***

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Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital

electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on

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fundamental theory, operational aspects and potential applications.

With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families,

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and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic

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takes a structured approach to
explaining how networks work from
the inside out. He starts with an
explanation of the physical layer of
networking, computer hardware and
transmission systems; then works*

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his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing,

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and streaming media.

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***understanding of the subject
matter.” -- Mr. Craig Domoney,
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and informative book in the
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Analytics. Using this book, one can
easily gain the intuition about the***

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area, along with a solid toolset of major data mining techniques and platforms. This book can thus be gainfully used as a textbook for a college course. It is also short and accessible enough for a busy executive to become a quasi-expert in this area in a couple of hours.

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*also be of great interest
to practising engineers.*

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(QoE), the Internet of Things (IoT), and cloudbased services. Dr. Stallings reviews current network ecosystems and the challenges they face—from Big Data and mobility to

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self-contained coverage of
each new set of
technologies: how they
work, how they are
architected, and how they

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can be applied to solve
real problems. Dr.

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chapter-length analysis of
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in modern networks. He
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*date discussion of
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including important recent
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requirements of current
network environments SDN:
concepts, rationale,
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of computer science and
engineering, electronics
and communication
engineering, master of*

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provides a comprehensive
coverage of the subject.
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communication such as*

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*data, signal and channel
alongwith their
characteristics such as
bandwidth, bit internal
and bit rate have been
explained. Contents
related to guided and*

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*unguided transmission
media, Bluetooth wireless
technology, developed for
Personal Area Network
(PAN) and issues related
to routing covering
popular routing algorithms*

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*namely RIP, OSPF and BGP,
have been introduced in
the book. Various aspects
of data link control
alongwith their
application in HDLC
network and techniques*

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*such as encoding,
multiplexing and
encryption/decryption are
presented in detail.*

*Characteristics and
implementation of PSTN,
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telephone network and
Satellite network have*

also been explained.

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802.11 WLAN and congestion
control protocols have*

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solved examples, and illustrations to bring clarity to the subject and enhance its understanding.

- Review questions given at the end of each chapter, are meant to*

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student's grasping of the
subject.*

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consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station.

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They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal

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challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and

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as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be

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used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete

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mathematics and algorithms, and signals
and systems.

Digital Communications is a classic book
in the area that is designed to be used as a
senior or graduate level text. The text is
flexible and can easily be used in a one
semester course or there is enough depth

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to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes

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Systems, and Iterative Detection.

Convenient, sequential organization
begins with a look at the history and
classification of channel models and

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builds from there.

Network Management: Principles And Practice is a reference book that comprehensively covers various theoretical and practical concepts of network management. It is divided into four units. The first unit gives an

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Security in Computing

Introduction to Wireless Systems

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Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers

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on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts

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behind wireless 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, matched filtering, frame synchronization message decoding,

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and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception.

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Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

A Coherent Systems View of Wireless and Cellular Network Design and Implementation Written for senior-level

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undergraduates, first-year graduate students, and junior technical professionals, Introduction to Wireless Systems offers a coherent systems view of the crucial lower layers of today's cellular systems. The authors introduce today's most important propagation issues, modulation

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techniques, and access schemes, illuminating theory with real-world examples from modern cellular systems. They demonstrate how elements within today's wireless systems interrelate, clarify the trade-offs associated with delivering high-quality service at acceptable cost, and

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demonstrate how systems are designed and implemented by teams of complementary specialists. Coverage includes Understanding the challenge of moving information wirelessly between two points Explaining how system and subsystem designers work together to analyze,

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plan, and implement optimized
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provide service over wide areas to
large subscriber bases Using

modulation: frequency efficiency, power efficiency, BER, bandwidth, adjacent-channel interference, and spread-spectrum modulation

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of complex, heterogeneous systems. It has a particular focus on cyber-physical systems, which integrate computing, networking, and physical dynamics. The book captures more than twenty years of experience in the Ptolemy Project at UC Berkeley, which pioneered many design, modeling, and

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simulation techniques that are now in widespread use. All of the methods covered in the book are realized in the open source Ptolemy II modeling framework and are available for experimentation through links provided in the book. The book is suitable for engineers, scientists, researchers, and

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120 articles and five books in a wide

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range of areas in mathematics, statistics, data science, machine learning, and Monte Carlo methods. He is a pioneer of the well-known Cross-Entropy method—an adaptive Monte Carlo technique, which is being used around the world to help solve difficult estimation and optimization

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