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PDF Fundamental
Communication
Fundamental
Engineering
Communication
Jacobs And
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n Engineering
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Probability,
Random
Variables,
Statistics, and
Random

Bookmark File PDF Fundamental Communication Processes:

Fundamentals &
Applications is
a comprehensive
undergraduate-
level textbook.

With its
excellent
topical
coverage, the
focus of this
book is on the
basic principles
and practical

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applications of the fundamental concepts that are extensively used in various Engineering disciplines as well as in a variety of programs in Life and Social Sciences. The text provides students with

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the requisite
building blocks
of knowledge
they require to
understand and
progress in
their areas of
interest. With a
simple, clear-
cut style of
writing, the
intuitive
explanations,
insightful

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examples, and practical applications are the hallmarks of this book. The text consists of twelve chapters divided into four parts. Part-I, Probability (Chapters 1 – 3), lays a solid groundwork for probability

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theory, and
introduces
applications in
counting,
gambling,
reliability, and
security. Part-
II, Random
Variables
(Chapters 4 –
7), discusses in
detail multiple
random
variables, along

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with a multitude
of frequently-
encountered
probability
distributions.

Part-III,
Statistics
(Chapters 8 –
10), highlights
estimation and
hypothesis
testing. Part-
IV, Random
Processes

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(Chapters 11 –
12), delves into
the Jobs And
characterization
and processing
of random
processes. Other
notable features
include: Most of
the text assumes
no knowledge of
subject matter
past first year
calculus and

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linear algebra

With its

independent

chapter

structure and

rich choice of

topics, a

variety of

syllabi for

different

courses at the

junior, senior,

and graduate

levels can be

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supported A
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website includes
solutions to
about 250
practice
problems,
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and figures and
tables from the
text Given its
engaging tone,
grounded
approach, method

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flow, thorough
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structure,
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Variables,
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clearly serves

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as a must
textbook for
courses not only
in Electrical
Engineering, but
also in Computer
Engineering,
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Engineering, and
Computer
Science.

Showcasing the
essential
principles

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behind modern
communication
systems, this
accessible
undergraduate
textbook
provides a solid
introduction to
the foundations
of communication
theory.

Carefully
selected topics
introduce

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students to the most important and fundamental concepts, giving students a focused, in-depth understanding of core material, and preparing them for more advanced study.

Abstract
concepts are

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introduced to students 'just in time' and reinforced by nearly 200 end-of-chapter exercises, alongside numerous MATLAB code fragments, software problems and practical lab exercises,

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firmly linking
the underlying
theory to real-
world problems,
and providing
additional hands-
on experience.

Finally, an
accessible
lecture-style
organisation
makes it easy
for students to
navigate to key

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passages, and
quickly identify
the most
relevant
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material
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one- or two-
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and accompanied
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instructor

resources, this
is the perfect
introductory
textbook for
undergraduate
students
studying
electrical and
computer
engineering.

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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 to cover two

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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

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design of
digital
communication
systems.

Includes expert
coverage of new
topics:

Turbocodes, Turb
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Antenna Arrays,
Digital Cellular
Systems, and
Iterative
Detection.

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

This book
presents a
collection of

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major
developments in
chaos systems
covering aspects
on chaotic
behavioral
modeling and
simulation,
control and
synchronization
of chaos
systems, and
applications
like secure

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It is a good
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acquire recent
knowledge and
ideas for future
research on
chaos systems
and to develop
experiments
applied to real
life problems.

That way, this
book is very

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interesting for students, academia and industry since the collected chapters provide a rich cocktail while balancing theory and applications.

Signal
Processing for
Communications
Theory and

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Applications
Chaotic Systems
Advances in
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Systems
Communications
and Cryptography
Addressing the
fundamental
technologies and
theories associated
with designing
complex

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communications

systems and networks,

Principles of

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Networks and

Systems provides

models and analytical

methods for

evaluating their

performance.

Including both the

physical layer (digital

transmission and

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modulation) and networking topics, the quality of service concepts belonging to the different layers of the protocol stack are interrelated to form a comprehensive picture. The book is designed to present the material in an accessible but rigorous manner. It

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jointly addresses networking and transmission aspects following a unified approach and using a bottom up style of presentation, starting from requirements on transmission links all the way up to the corresponding quality of service at network and application layers.

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The focus is on presenting the material in an integrated and systematic fashion so that students will have a clear view of all the principal aspects and of how they interconnect with each other. A comprehensive introduction to

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systems and networks,
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addressing both
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network and
transmission topics
Structured for
effective learning,
with basic principles
and technologies
being introduced
before more advanced
ones are explained
Features examples of

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existing systems and
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recent standards as
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well as advanced
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digital modulation
techniques such as
CDMA and OFDM
Contains tools to help
the reader in the
design and
performance analysis
of modern
communications
systems Provides

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problems at the end of
each chapter, with
answers on an
accompanying website

This textbook takes a
unified view of the
fundamentals of
wireless
communication and
explains cutting-edge
concepts in a simple
and intuitive way. An
abundant supply of

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exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

Communication devices such as smart phones, GPS systems, and Bluetooth, are now part of our daily lives more than ever

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before. As our communication equipment becomes more sophisticated, so do the radios and other hardware required to enable that technology. Common radio architectures are required to make this technology work seamlessly. This resource describes

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practical aspects of
radio frequency
communications
systems design,
bridging the gap
between system-level
design considerations
and circuit-level
design specifications.
Industry experts not
only provide detailed
calculations and
theory to determine

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block level specifications, but also discuss basic theory and operational concepts. This resource also includes extensive, up-to-date application examples. Simulation may be defined as the discipline whose objective is to imitate one or more aspects of

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reality in a way that is as close to that reality as possible; indeed, an apt synonym that is gaining some currency is artificial reality.

Under this definition, simulation is a very old discipline.

Probably the first applications of simulation were to scale models of

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various types of
dynamical structures
or mechanical devices.

Man has always
looked for ways to
"try things out" before
building the real thing;
this is the motivation
behind any form of
simulation. Thus,
simulation of
communication
systems is concerned

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with imitating some aspects of the behavior of communication systems. It is implicit in our use of simulation that the medium (so to speak) for carrying it out is the digital computer. Computer-based modeling and simulation of

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communication systems has only developed in the last 20 years or so, since the advent of modern digital computers. A variety of modeling and simulation techniques have been developed and described in widely scattered journals, but until now there has

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not been a single volume devoted to the subject. We have tried to provide a unified framework that describes both the disciplines involved and the methods of modeling and simulating communication systems and subsystems. In the

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electronic era, the first
type of computer
simulation, in today's
use of the term, took
shape in the form of
analog computers.
Communications,
Lidar, and Imaging
1971: Title Index
Principles of
Communications
Networks and
Systems

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Wireless
Communication
Principles of Digital
Communication

A timely overview of
a complete spectrum
of technologies
specifically designed
for public safety
communications as
well as their
deployment as

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management In our
Engineering
increasingly disaster-
Jobs And
prone world, the need
Workcraft
to upgrade and better
coordinate our public
safety networks
combined with
successful
communications is
more critical than
ever. Fundamentals of
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Systems fills a gap in the literature by providing a book that reviews a comprehensive set of technologies, from most popular to the most advanced communications technologies that can be applied to public safety networks and mission-critical communications

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systems. The book explores the technical and economic feasibility, design, application, and sustainable operation management of these vital networks and systems. Written by a noted expert in the field, the book provides extensive coverage of systems, services, end-user

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devices, and applications of public-safety services and technologies. The author explores the potential for advanced public safety systems, and this comprehensive text covers all aspects of the public safety and critical communications network field. This

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important book:

Provides an introduction to and discussion of the common characteristics of our critical communications systems Presents a review of narrowband technologies such as Project 25, TETRA, and DMR as well as the broadband

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Focuses on the
emerging
technologies that can
be adopted to
improve our vital
communications
systems Discusses
deployment of such
technologies,
including economics
and finance, planning
and project

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management
Provides, in detail, the
issues and solutions
related to the
management of such
communications
networks Offers a
complete list of
standards documents
Written for
professionals in the
industry, academics,
and government and
regulatory agencies,

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Public Safety
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Systems offers a review of the most significant safety technologies, explores the application for advanced technologies, and examines the most current research.

This work focuses on

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a new digital radio architecture now emerging as a key technology in the wireless industry and in the third generation of cellular communication. This book addresses the problems of wireless high data rates from a physical layer point of view and presents an innovative

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approach from both a theoretical and practical point of view. The author explains the fundamental theory for the transmission of digitally modulated signals with and without antenna arrays, details new families of digital radio architectures, describes advanced

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signal processing methods and evaluates algorithmic approaches by hardware platforms and associated measurements.

Exploring the interrelation between information theory and signal processing theory, the book contains a new algebraic approach to

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signal processing
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theory. Readers will
Jacob And
learn this new
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approach to
constructing the
unified mathematical
fundamentals of both
information theory
and signal processing
theory in addition to
new methods of
evaluating quality
indices of signal
processing. The book

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discusses the methodology of synthesis and analysis of signal processing algorithms providing qualitative increase of signal processing efficiency under parametric and nonparametric prior uncertainty conditions. Examples are included throughout the book

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to further emphasize
new material.

Thorough coverage of
basic digital
communication
system principles
ensures that readers
are exposed to all
basic relevant topics
in digital
communication
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standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving

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applications to
practical systems
such as satellite
communications
systems, ionospheric
channels, and mobile
radio channels gives
readers ample
opportunity to
practice the concepts
they have just
learned. With an
emphasis on digital
communications,

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introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important

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mathematical
foundation topics.

New material has
been added on

wireless

communication

systems—GSM and
CDMA/IS-94; turbo

codes and iterative

decoding; multicarrier

(OFDM) systems;

multiple antenna

systems. Includes

thorough coverage of

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principles—including
source coding,
channel coding,
baseband and carrier
modulation, channel
distortion, channel
equalization,
synchronization, and
wireless
communications.

Includes basic

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coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication

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system design.

Two Sides of One
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Methodology and

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Lattice Properties

Transmission

Techniques for Digital

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Providing the
underlying
principles of digital
communication and
the design
techniques of real-
world systems, this
textbook prepares
senior
undergraduate and
graduate students
for the engineering

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practices required
in industry.

Covering the core
concepts, including
modulation,
demodulation,
equalization, and
channel coding, it
provides step-by-
step mathematical
derivations to aid
understanding of
background

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material. In addition to describing the basic theory, the principles of system and subsystem design are introduced, enabling students to visualize the intricate connections between subsystems and

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understand how
each aspect of the
design supports the
overall goal of
achieving reliable
communications.
Throughout the
book, theories are
linked to practical
applications with
over 250 real-world
examples, whilst
370 varied

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homework
problems in three
levels of difficulty
enhance and
extend the text
material. With this
textbook, students
can understand
how digital
communication
systems operate in
the real world, learn
how to design

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subsystems, and
evaluate end-to-end
performance with
ease and
confidence.

Taking a novel, less
classical approach
to the subject, the
authors have
written this book
with the conviction
that signal
processing should

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be fun. Their treatment is less focused on the mathematics and more on the conceptual aspects, allowing students to think about the subject at a higher conceptual level, thus building the foundations for more advanced

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topics and helping students solve real-world problems.

The last chapter pulls together the individual topics into an in-depth look at the development of an end-to-end communication system. Richly illustrated with

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examples and
exercises in each
chapter, the book
offers a fresh
approach to the
teaching of signal
processing to upper-
level

undergraduates.

In addition to
presenting the
basic principles of
waveguiding in

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optical fibres, both single mode and multimode, this book explains the characteristics of light sources and detectors, coupling phenomena, receiver performance and optical fibre link analysis.

The purpose of

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Error-Control
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Coding for Data
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Networks is to
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provide an
accessible and
comprehensive
overview of the
fundamental
techniques and
practical
applications of the
error-control coding
needed by students

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and engineers. An additional purpose of the book is to acquaint the reader with the analytical techniques used to design an error-control coding system for many new applications in data networks.

Error~control coding is a field in

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which elegant theory was motivated by practical problems so that it often leads to important useful advances. Claude Shannon in 1948 proved the existence of error-control codes that, under suitable conditions and at

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rates less than
channel capacity,
would transmit
error-free

information for all
practical
applications. The
first practical binary
codes were
introduced by
Richard Hamming
and Marcel Golay
from which the

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drama and excitement have infused researchers and engineers in digital communication and error-control coding for more than fifty years. Nowadays, error-control codes are being used in almost all modern digital electronic

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systems and data
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networks. Not only
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is coding
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equipment being
implemented to
increase the energy
and bandwidth
efficiency of
communication
systems, but coding
also provides
innovative solutions
to many related

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Methods, and
Performance
Evaluation

Presents practical
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applications in the
context of the
fundamental
principles of
communication
theory,

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thermodynamics,
information theory
and propagation
theory. Combining
systems issues with
fundamentals of
communications, this
is an essential
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researchers in optical
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resource offers you a new methodology for analyzing and studying the behavior of wireless communication systems in an interference environment. It provides you with modern tools and techniques for use in real-world applications that help

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you with an up-to-date understanding of how to plan, analyze, and design next-generation broadband wireless networks. This comprehensive book includes all the necessary background information needed to fully understand the material and places emphasis on practical

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engineering know-
how that can be
readily applied to
designing OFDM-
based systems. You
find detailed
discussions on
everything from the
physical and media
access control layers,
to QoS and security
functions. Rather than
just offering simple
explanations of

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standards, this invaluable book takes a close look at live, real-world systems, explaining how the technical features work and why they were adopted.

Moreover, the author includes his own design frameworks and rules that have been developed through his own

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extensive research
and experience. This
comprehensive
reference is
supported with over
170 illustrations and
more than 250
equations."

This authoritative
book provides a
thorough
understanding of the
fundamental concepts
of satellite

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communications
(SATCOM) network
design and
performance

assessments. You find discussions on a wide class of SATCOM networks using satellites as core components, as well as coverage key applications in the field. This in-depth resource presents a

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broad range of critical topics, from geosynchronous Earth orbiting (GEO) satellites and direct broadcast satellite systems, to low Earth orbiting (LEO) satellites, radio standards and protocols. This invaluable reference explains the many specific uses of

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satellite networks,
including small-
terminal wireless and
mobile
communications
systems. Moreover,
this book presents
advanced topics such
as satellite RF link
analyses, optimum
transponder loading,
on-board processing,
antenna
characteristics,

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information
assurance, and
spread spectrums.

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current and future
SATCOM systems
and find details on
their performance
supportabilities. This
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also presents trends
in multimedia satellite
applications and IP

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Algebraic Approach
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***Since the first
edition of this
book was
published
seven years
ago, the field
of modeling
and simulation
of
communication systems has
grown and***

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***matured in
many ways,
and the use of
simulation as
a day-to-day
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digital mobile***

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represents a
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lucid writing
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digital
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***n for a one-
semester
course for
graduate
students. With
the clarity and
insight that
have
characterized
his teaching
and earlier
textbooks, he***

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simple
framework
and then**

**combines this
with careful
proofs to help
the reader
understand
modern
systems and
simplified**

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precise way. A
strong
narrative and
links between
theory and
practice
reinforce this
concise,
practical
presentation.***

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begins with
data
compression
for arbitrary
sources.***

***Gallager then
describes how
to modulate
the resulting
binary data for
transmission***

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fibers, and
wireless
channels.
Analysis and
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channel noise
models,**

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coverage of
the principles
of detection,
coding, and
decoding. The
various
concepts
covered are
brought
together in a
description of***

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contributions
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application of i
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n channels
such as
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channel
equalization,
and coded
modulation for
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coherent***

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