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Modulation And
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Lab 8 Bpsk Modulation And Demodulation Ksu Faculty

*Catering to the current
interest in increasing
the spectral efficiency
of optical fiber*

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*networks by the
deployment of high-
order modulation
formats, this
monograph describes
transmitters, receivers
and performance of
optical systems with
high-order phase and
quadrature amplitude
modulation. In the first
part of the book, the
author discusses various
transmitter*

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*implementation options
as well as several
receiver concepts based
on direct and coherent
detection, including
designs of new
structures. Hereby, both
optical and electrical
parts are considered,
allowing the assessment
of practicability and
complexity. In the
second part, a detailed
characterization of*

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optical fiber transmission systems is presented, regarding a wide range of modulation formats. It provides insight in the fundamental behavior of different formats with respect to relevant performance degradation effects and identifies the major trends in system performance.

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The REV conference aims to discuss the fundamentals, applications and experiences in remote engineering, virtual instrumentation and related new technologies, as well as new concepts for education on these topics, including emerging technologies in learning, MOOCs &

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***MOOLs, Open
Resources, and STEM
pre-university***

***education. In the last 10
years, remote solutions
based on Internet
technology have been
increasingly deployed in
numerous areas of
research, science,
industry, medicine and
education. With the new
focus on cyber-physical
systems, Industry 4.0,***

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*Internet of Things and
the digital
transformation in
industry, economy and
education, the core
topics of the REV
conference have become
indispensable elements
of a future digitized
society. REV 2018,
which was held at the
University of Applied
Sciences in Duesseldorf
from 21–23 March*

2018, addressed these topics as well as state-of-the-art and future trends.

*Scientific and
Technical Aerospace
Reports*

*1975 International
Conference on
Communications
Multimedia Video-
Based Surveillance
Systems*

Principles and Trends

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*Proceedings of SCIS
2021*

China Satellite

*Navigation Conference
(CSNC) 2012*

Proceedings

Lists citations
with abstracts for
aerospace related
reports obtained
from world wide
sources and
announces

documents that
have recently
been entered into
the NASA
Scientific and
Technical
Information
Database.

This book
describes the
digitally intensive
time-domain

architectures and techniques applied to millimeter-wave frequency synthesis, with the objective of improving performance and reducing the cost of implementation.

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Coverage includes
system
architecture,
system level
modeling, critical
building block
design, and digital
calibration
techniques,
making it highly
suitable for those
who want to learn

about mm-wave
frequency
generation for
communication
and radar
applications,
integrated circuit
implementation,
and time-domain
circuit and system
techniques.

Highlights the

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challenges of
frequency
synthesis at mm-
wave band using
CMOS technology
Compares the
various
approaches for
mm-wave
frequency
generation (pros
and cons)

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Introduces the
digitally intensive
synthesizer

approach and its
advantages

Discusses the
proper

partitioning of the
digitally intensive
mm-wave

frequency

synthesizer into

Bookmark File
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Modulation And
mm-wave, RF,
Demodulation Ksu
analog, digital
Faculty

and software
components

Provides detailed
design techniques
from system level
to circuit level

Addresses system
modeling,
simulation
techniques,

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Modulation And
design-for-test,
Demodulation Ksu
and layout issues
Faculty

Demonstrates the
use of time-
domain
techniques for
high-performance
mm-wave
frequency
synthesis

ICC75 : June
16-18, San

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Francisco
Toward a Digital
World
37th IEEE
Vehicular
Technology
Conference
Journal of the
Radio Research
Laboratories
Telecommunicatio
ns for Pacific

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Development Mitigation of Nonlinear

Impairments for Advanced Optical Modulation Formats

An unparalleled
learning tool and guide
to error correction
coding Error correction
coding techniques allow
the detection and

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correction of errors occurring during the transmission of data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an important component of the modern information economy. Error

Correction Coding:
Mathematical Methods

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and Algorithms
provides a
comprehensive
introduction to both the
theoretical and practical
aspects of error
correction coding, with
a presentation suitable
for a wide variety of
audiences, including
graduate students in
electrical engineering,
mathematics, or
computer science. The

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pedagogy is arranged so that the mathematical concepts are presented incrementally, followed immediately by applications to coding. A large number of exercises expand and deepen students' understanding. A unique feature of the book is a set of programming laboratories, supplemented with over

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250 programs and functions on an associated Web site, which provides hands-on experience and a better understanding of the material. These laboratories lead students through the implementation and evaluation of Hamming codes, CRC codes, BCH and R-S codes, convolutional codes,

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turbo codes, and LDPC codes. This text offers both "classical" coding theory-such as Hamming, BCH, Reed-Solomon, Reed-Muller, and convolutional codes-as well as modern codes and decoding methods, including turbo codes, LDPC codes, repeat-accumulate codes, space time codes, factor graphs, soft-decision

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decoding, Guruswami-Sudan decoding, EXIT charts, and iterative decoding. Theoretical complements on performance and bounds are presented. Coding is also put into its communications and information theoretic context and connections are drawn to public key cryptosystems. Ideal as a classroom resource

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and a professional reference, this thorough guide will benefit electrical and computer engineers, mathematicians, students, researchers, and scientists.

Since publication of the 1st edition in 2002, there has been a deep evolution of the global communication network with the entry of

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submarine cables in the Terabit era. Thanks to optical technologies, the transmission on a single fiber can achieve 1 billion simultaneous phone calls across the ocean! Modern submarine optical cables are fueling the global internet backbone, surpassing by far all alternative techniques. This new edition of

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Undersea Fiber
Communication
Systems provides a
detailed explanation of
all technical aspects of
undersea
communications
systems, with an
emphasis on the most
recent breakthroughs of
optical submarine cable
technologies. This fully
updated new edition is
the best resource for

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demystifying enabling
optical technologies,
equipment, operations,
up to marine
installations, and is an
essential reference for
those in contact with
this field. Each chapter
of the book is written by
key experts of their
domain. The book
assembles in a
complementary way the
contributions of authors

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from key suppliers acting in the domain, such as Alcatel-Lucent, Ciena, NEC, TE-Subcom, Xtera, from consultant and operators such as Axiom, OSI, Orange, and from University and organization references such as TelecomParisTech, and Suboptic. This has ensured that the overall

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topics of submarine
telecommunications is
treated in a quite
ecumenical, complete
and un-biased approach.
Features new content
on: Ultra-long haul
submarine transmission
technologies for
telecommunications
Alternative submarine
cable applications, such
as scientific or oil and
gas Addresses the

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development of high-speed networks for multiplying Internet and broadband services with: Coherent optical technology for 100Gbit/s channels or above Wet plant optical networking and configurability Provides a full overview of the evolution of the field conveys the strategic importance of large

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undersea projects with:
Technical and
organizational life cycle
of a submarine network
Upgrades of amplified
submarine cables by
coherent technology
Fundamentals Through
Advanced
Intelligent Systems
Conference Proceedings
: the Second National
Technology Transfer
Conference and

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Exposition, December
3-5, 1991, San Jose
Convention Center, San
Jose, CA.

Review, Naval Research
Laboratory,
Washington, D.C.

Next Generation Mobile
Broadcasting

Government Reports
Announcements &
Index

**Cable and
Wireless**

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**Networks:
Theory and
Practice presents
a comprehensive
approach to
networking,
cable and
wireless
communications,
and networking
security. It
describes the
most important
state-of-the-art**

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Modulation And
Demodulation Ksu
Fundamentals
and system
details in the
field, as well as
many key aspects
concerning the
development and
understanding of
current and
emergent
services. In this
book, the author
gathers in a
single volume

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**current and
emergent cable
and wireless
network services
and
technologies.
Unlike other
books, which
cover each one of
these topics
independently
without
establishing
their natural**

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Early

**relationships,
this book allows
students to
quickly learn and
improve their
mastering of the
covered topics
with a deeper
understanding of
their
interconnection.
It also collects in
a single source
the latest**

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**developments in
the area,
typically only
within reach of
an active
researcher. Each
chapter
illustrates the
theory of cable
and wireless
communications
with relevant
examples, hands-
on exercises, and**

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**review questions
suitable for
readers with a
BSc degree or an
MSc degree in
computer science
or electrical
engineering. This
approach makes
the book well
suited for higher
education
students in
courses such as**

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**networking, telec
ommunications,
mobile
communications,
and network
security. This is
an excellent
reference book
for academic,
institutional, and
industrial
professionals
with technical
responsibilities**

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**in planning,
design and
development of
networks, teleco
mmunications
and security
systems, and
mobile
communications,
as well as for
Cisco CCNA and
CCNP exam
preparation.
This book**

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**contains the
latest
computational
intelligence
methodologies
and applications.**

**This book is a
collection of
selected papers
presented at
International
Conference on
Sustainable
Computing and**

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**Intelligent
Systems (SCIS
2021), held in
Jaipur, India,
during February
5-6, 2021. It
includes novel
and innovative
work from
experts,
practitioners,
scientists, and
decision-makers
from academia**

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and industry. It covers selected papers in the area of artificial intelligence and intelligent systems, intelligent business systems, machine intelligence, computer vision, Web intelligence, big data

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**analytics, swarm
intelligence, and
related topics.**

**Introduction to
Communication
Systems
Theory and
Practice
Journal of the
Communications
Research
Laboratory
Energy Research
Abstracts**

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**Conference
Record
Proceedings of
the Fifth
International
Mobile Satellite
Conference 1997,
IMSC '97**

Previous studies by
the authors have
included a
theoretical and
experimental

investigation of the
spatial distribution
of an optical signal
used for
communications in
underwater
scattering
environments.

Presented here is an
experimental study
of how scattering
affects the

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temporally encoded information bearing component of the optical signal. Short range underwater optical links employing BPSK, QPSK, 8- PSK, 16-QAM, and 32-QAM modulation are implemented in a laboratory setting,

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yielding data rates
up to 5Mb/s. The
effect of link quality
is examined versus
water turbidity.

Proceedings of the
3rd China Satellite
Navigation
Conference
(CSNC2012)
presents selected
research papers from

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CSNC2012, held on
15-19 May in
Guangzhou, China.

These papers discuss
the technologies and
applications of the
Global Navigation
Satellite System
(GNSS), and the
latest progress made
in the China BeiDou
system especially.

They are divided into 9 topics to match the corresponding sessions in CSNC2012, which broadly covered key topics in GNSS. Readers can learn about the BeiDou system and keep abreast of the latest

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advances in GNSS
techniques and
applications. SUN
Jiadong is the Chief
Designer of the
Compass/BeiDou
system, and the
Academician of
Chinese Academy of
Sciences; LIU
Jingnan is a
professor at Wuhan

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University, and the
Academician of

Chinese Academy of
Engineering; YANG

Yuanxi is a

professor at China

National

Administration of

GNSS and

Applications, and

the Academician of

Chinese Academy of

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Sciences; FAN
Shiwei is a
researcher on
satellite navigation.
Principles of Spread-
Spectrum
Communication
Systems
Proceedings,
ICDSC-7
Cable and Wireless
Networks

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Handbook of
Research on Recent
Developments in
Intelligent
Communication
Application
Proceedings of the
15th International
Conference on
Remote Engineering
and Virtual
Instrumentation

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NASA Tech Briefs
Optical fibre
networks form the
backbone of the
global
communication
infrastructure but are
currently
experiencing an
unprecedented level
of stress due to more
and more bandwidth-

hungry applications.
In an effort to
address this and
avoid a so-called
capacity crunch,
research groups
around the world
have focused their
attention on more
spectrally-efficient
modulation formats,
to increase available

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capacity at a competitive cost.

However, the drive towards higher-order modulation formats leads to greater transmission impairments, reducing the maximum distance over which increased capacity can be

provided. The thesis describes the research work carried out to investigate the achievable transmission distances when using higher order modulation formats together with digital backpropagation

(DBP). DBP is a digital signal processing (DSP) algorithm, capable of compensating for deterministic nonlinear impairments by inverting the fibre channel. Single-channel and wavelen
gth-division-

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multiplexed (WDM)

transmission has

been investigated in

experiment and

simulation for a

variety of polarisatio

n-division-

multiplexed (PDM)

modulation formats:

binary-phase-shift-

keying (PDM-

BPSK), quadrature-

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phase-shift-keying
(PDM-QPSK),
8-phase-shift-keying
(PDM-8PSK),
8-quadrature
amplitude
modulation
(PDM-8QAM),
16-quadrature
amplitude
modulation
(PDM-16QAM) and

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polarisation-switched
QPSK (PS-QPSK).

Record transmission
distances were
achieved in WDM
transmission
experiments with
PDM-BPSK, PS-
QPSK and PDM-
QPSK at 42.9Gbit/s
as well as for
PDM-8PSK and

PDM-8QAM at
112Gbit/s, over the
most common fibre
type: standard single
mode fibre (SSMF)
and the most
common
amplification
solution: erbium
doped fibre
amplifiers (EDFA).
For the first time,

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nonlinear
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compensation has
been compared
experimentally for
different modulation
formats and a fixed-
complexity DBP
algorithm. Its use led
to increased benefit
for more spectrally
efficient modulation
formats. Computer

simulations were used to explore the upper bounds of achievable performance improvement with DBP, using an algorithm with unconstrained complexity.

Furthermore, DBP was investigated for

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varying symbol rates and channel spacings to investigate trade-offs with respect to the digital receiver bandwidth. It was shown that even though DBP is computationally expensive, it can achieve significant improvements in

transmission reach
and BER
performance. The
results presented in
this thesis, can be
applied to the design
of future optical
transmission
systems.

WIRELESS
COMMUNICATIO
N SIGNALS A

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practical guide to
wireless
communication

systems and concepts

Wireless

technologies and

services have

evolved significantly

over the last couple

of decades, and

Wireless

Communication

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Signals offers an important guide to the most recent advances in wireless communication systems and concepts grounded in a practical and laboratory perspective. Written by a noted expert on the topic, the book

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provides the information needed to model, simulate, test, and analyze wireless system and wireless circuits using modern instrumentation and computer aided design software.

Designed as a practical resource,

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the book provides a clear understanding of the basic theory, software simulation, hardware test, and modeling, system component testing, software and hardware interactions and co-simulations. This important book:

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Provides organic and
harmonized coverage
of wireless

communication

systems Covers a

range of systems

from radio hardware

to digital baseband

signal processing

Presents information

on testing and

measurement of

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Modulation And
wireless
Demodulation Ksu
communication
Faculty
systems and

subsystems Includes
MATLAB file codes
Written for
professionals in the
communications
industry, technical
managers, and
researchers in both
academia and

industry. Wireless
Communication
Signals introduces
wireless
communication
systems and concepts
from both a practical
and laboratory
perspective.

7th International
Conference on
Digital Satellite

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Communications,
May 12-16, 1986,
Hotel Hilton
International,
Munich, Federal
Republic of
Germany ;
Conference
Organized by VDE
... ; in Cooperation
with DBP/FTZ ... ;
Sponsored by

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INTELSAT ... [et
Al.].

Technology 2001

Official Gazette of
the United States

Patent and

Trademark Office

Tech Notes

Requirements, Issues
and Solutions

High-Order

Modulation for

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Optical Fiber
Transmission
*A comprehensive
reference
covering optical
payloads in
space missions,
with
contributions
from global
experts * Covers
various
applications,*

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*including earth
observation,
communications,
navigation,
weather, and
science
satellites and
deep space
exploration **
*Each chapter
covers one or
more specific
optical payload
* Contains a*

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*review chapter
which provides
readers with an
overview on the
background,
current status,
trends and
future prospects
of optical
payloads
Demand for
Mobile Satellite
Service (MSS) is
on the increase,*

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with a huge surge of interest in mobile communications in recent years and high-paced advancements in the supporting system architectures, devices and applications. This thoroughly

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*revised and
updated book
provides a
comprehensive
guide to the MSS
technologies and
emerging trends.
It takes a
system level
approach, giving
in-depth
treatment of
technical and
business related*

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issues. The author, a leading professional in the area, draws on his extensive experience in industry and research, to provide the reader with a sound and informed understanding of

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*the technology.
Mobile Satellite
Communications
includes
introductory
material for the
reader new to
the field, in
addition to
exploring
prevalent system
concepts,
architecture,
practices and*

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*trends for the
more
experienced. An
in-depth review
of scientific
principles
merged with
business models
and regulatory
considerations
presents a
balanced
perspective of
commercial*

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*mobile satellite
systems. This
book will be of
interest to
practicing
engineers in
mobile satellite
communications
and mobile
broadcasting,
research and
development
professionals
working in these*

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*areas, mobile
satellite
service
providers and
operators.
Academics and
students
studying
satellite system
s/technology,
specialists in
other classes of
satellite
systems,*

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*technical and
marketing
managers,
strategists and
planners of tele
communication
systems:
individuals
interested in
mobile
communications,
satellite and te
lecommunications
/broadcasting*

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*technology will
also find this
book insightful.*

Key Features:

*Comprehensive
treatment of
mobile satellite
communications
topics,
including radio
link aspects,
satellite
constellations,
architectural*

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Faculty
and operational
aspects, as well
as business
planning models,
MSS radio
interface
standards,
spectrum
forecast
methodologies
and system
examples.
Addresses
related themes

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such as mobile
broadcasting,
mobile VSATs,
search and
rescue, and
navigation
systems.

Introduces
emerging
technologies
such as mobile
broadband,
television
broadcasting to

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*handheld units,
advanced
capacity
enhancement
techniques,
hybrid system
architecture
concepts,
including a rich
sample of
research topics
such as multiple
input multiple
output,*

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*satellite-based
ad-hoc networks,
and highlights
initiatives in
the use of Q/V
frequency bands.
Includes
revision
questions at the
end of each
chapter. An
accompanying
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profile
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roadcast
extension of 4G
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standard E-
MBMS. This part
includes a
chapter about a
common
broadcast
specification

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of state-of-the-art 3GPP and

DVB standards

to provide a

broadcast

overlay

optimized for

mobile and

operated in

conjunction

with a

broadband

unicast access.

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It also contains an overview chapter on a new High-Efficiency Video Coding (HEVC) standard that is expected to provide significantly improved coding

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efficiency
compared to
current MPEG-4
AVC video
coding. The
second part of
the book—Next-
Generation
Handheld DVB
Technology: DVB-
NGH —describes
the latest
mobile

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broadcast
technology

known as

Digital Video B
roadcasting-Nex
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Handheld (DVB-
NGH), which is

expected to

significantly

outperform all

existing

technologies in

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both capacity
and coverage.

DVB-NGH

introduces new
technological
solutions that
along with the
high
performance of
DVB-T2 make DVB-
NGH a powerful
next-generation
mobile

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multimedia
broadcasting
technology. In
fact, DVB-NGH
can be regarded
as the first 3G
broadcasting
system because
it allows for
the possibility
of using
multiple input
multiple output

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MIMO antenna schemes to overcome the Shannon limit of single antenna wireless communications. DVB-NGH also allows the deployment of an optional satellite

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component
forming a
hybrid terrestri-
al-satellite
network
topology to
improve
coverage in
rural areas
where the
installation of
terrestrial
networks is

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economically
unfeasible.

Although the
commercial
deployment of
DVB-NGH is
nowadays
unclear after
its standardiza
tion, it will
be a reference
point for
future

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generations of
digital
terrestrial
television
technologies.
Edited by a
member of the
DVB-NGH
standardization
group, the book
includes
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of
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e—including
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Television
Systems
Committee
(ATSC) in the

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US, Korea,
Japan, and
China; Third
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and the Moving
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Group (MPEG).
Millimeter-Wave
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advancements in
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working, or interested,
in satellite

newsgathering (SNG).

The new edition of this popular book builds upon the success of the first--an important and valuable work that is extremely easy to read, comprehensive in its treatment, and detailed where necessary. SNG used to be an immensely complex and

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expensive affair where broadcasting organizations were at the mercy of an expert who sat in a lonely corner, until needed. Things have changed--everyone in a global news organization needs to know about it now. This is not only because of the high costs of mistakes, but because

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