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"Principles of Electronic
Communication Systems" is an
introductory course in
communication electronics

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for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications,

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including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and

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color photographs. The up-to-date content includes a new chapter on wireless communications systems.

Various aspects of troubleshooting are discussed throughout..

Various measures of

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information are discussed in first chapter. Information rate, entropy and mark off models are presented. Second and third chapter deals with source coding. Shannon's encoding algorithm, discrete communication channels,

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mutual information,
Shannon's first theorem are
also presented. Huffman
coding and Shannon-Fano
coding is also discussed.
Continuous channels are
discussed in fourth chapter.
Channel coding theorem and

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channel capacity theorems are also presented. Block codes are discussed in chapter fifth, sixth and seventh. Linear block codes, Hamming codes, syndrome decoding is presented in detail. Structure and

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properties of cyclic codes,
encoding and syndrome
decoding for cyclic codes is
also discussed. Additional
cyclic codes such as RS
codes, Golay codes, burst
error correction is also
discussed. Last chapter

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presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail.

The clear, easy-to-

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understand introduction to
digital communications
Completely updated coverage
of today's most critical
technologies Step-by-step
implementation coverage
Trellis-coded modulation,
fading channels, Reed-

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Solomon codes, encryption,
and more Exclusive coverage
of maximizing performance
with advanced "turbo codes"
"This is a remarkably
comprehensive treatment of
the field, covering in
considerable detail

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modulation, coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability

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theory or as a valuable reference for the practicing communication system engineer. For both communities, the treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group

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Master every key digital communications technology, concept, and technique. Digital Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-

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selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the heart of today's wireless and Internet revolutions, providing a unified

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structure and context for understanding them -- all without sacrificing mathematical precision.

Sklar begins by introducing the fundamentals of signals, spectra, formatting, and baseband transmission. Next,

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he presents practical coverage of virtually every contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance. Coverage includes:

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Signals and processing steps: from information source through transmitter, channel, receiver, and information sink Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth

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expenditure Trellis-coded
modulation and Reed-Solomon
codes: what's behind the
math Synchronization and
spread spectrum solutions
Fading channels: causes,
effects, and techniques for
withstanding fading The

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first complete how-to guide
to turbo codes: squeezing
maximum performance out of
digital connections

Implementing encryption with
PGP, the de facto industry
standard Whether you're
building wireless systems,

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xDSL, fiber or coax-based services, satellite networks, or Internet infrastructure, Sklar presents the theory and the practical implementation details you need. With nearly 500 illustrations and

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300 problems and exercises,
there's never been a faster
way to master advanced
digital communications. CD-
ROM INCLUDED The CD-ROM
contains a complete
educational version of
Elanix' SystemView DSP

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design software, as well as detailed notes for getting started, a comprehensive DSP tutorial, and over 50 additional communications exercises.

Modulation Systems Time and frequency domain

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representation of signals,
Amplitude modulation and
demodulation, Frequency
modulation and demodulation,
Super heterodyne radio
receiver. Frequency division
multiplexing, Pulse width
modulation. Transmission

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Medium Transmission lines -
Types, Equivalent circuit,
Losses, Standing waves,
Impedance matching,
Bandwidth: Radio propagation
- Ground wave and space wave
propagation, Critical
frequency maximum usable

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frequency, Path loss, White Gaussian noise. Digital Communication Pulse code modulation, Time division multiplexing, Digital T-carrier system. Digital radio system. Digital modulation: Frequency and

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phase shift keying -
Modulator and demodulator,
Bit error rate
calculation.Data
Communication and Network
Protocol Data communication
codes, Error control, Serial
and parallel interface,

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Telephone network, Data
modem, ISDN.LAN.ISO-OSI
seven layer architecture for
WAN.Satellite and Optical
Fibre Communications Orbital
satellites, Geostationary
satellites, Look angles,
Satellite system link

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models, satellite system
link equations: advantages
of optical fibre
communication - Light
propagation through fibre,
Fibre loss, Light sources
and detectors.

A Textbook of Applied

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Electronics

Numerical Techniques

Advanced Hybrid Information

Processing

Information Theory Meets

Power Laws

Principles of Electronic

Communication Systems

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**Electronics And
Communication Engineering
Handbook: For ECE
Competitive Examinations is a
comprehensive book which
covers almost all the basic
concepts of ECE. It is written
to address the needs of the**

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students/ aspirants of the national level competitive examinations in Electronics and Communication Engineering (GATE-ECE/ IES/ BEL/ ISRO/ other PSU examinations). An extensive study of all the core subjects

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in electronics and communications is required to crack such examinations. This book is written to be a one-stop source for study and revision of all the important concepts in ECE, so that the students/ aspirants do not

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miss any important concept that might be useful for solving problems in the examination. The book is an outcome of the author's own experiential insights, and it will immensely help the students/ aspirants in finding

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**the right way and the right
approach of preparation for
competitive examinations.
Communication process,
Source of information,
Communication channels,
Base-band and Pass-band
signals, Representation of**

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**signal and systems, The
modulation process, Primary
communication resources,
Analog versus digital
communications. Amplitude
modulation Frequency division
and time division
multiplexing, Suppressed**

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carrier systems, Single side band transmission, Amplitude modulation with carrier power, Effect of frequency and phase errors in synchronous detection, Comparison of various AM systems, Vestigial side band

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**transmission.Angle
ModulationNarrow and wide
band FM, Multiple frequency
and square wave modulation,
Linear and Non-linear
modulation, Phase
modulation, Demodulation of
FM signals, Noise**

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**reduction. Pulse Modulation
Pulse amplitude modulation,
Other forms of pulse
modulation, Bandwidth
required for transmission
PAM signals, Comparison of
frequency division and Time
division multiplexed**

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systems.NoiseDifferent types of noise, Noise calculations, Equivalent noise bandwidth, Noise figures, Effective noise temperature, Noise figure in cascaded stages.Performance of Communication SystemsNoise calculation in

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**communication systems,
Noise in amplitude
modulated, angle modulated
and pulse modulated
systems, Comparison of
coded and un-coded
systems. Information
Transmission Measures of**

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information, Channel capacity, transmission of continuous signals, Exchange of bandwidth for signal to noise ratio, Efficiency of PCM systems.

The book comprises of various numerical methods and their

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implementation with C-language and MATLAB. Basics of C-programming are covered in first chapter. Basics of errors in computation, number representation and its impact on errors is covered in second

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chapter. Various types of errors, their propagation, analysis and estimation is also covered in this chapter. Roots of transcendental equations are covered in third chapter. Birge-vieta method, Bairstow method, Bisection

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method, Secant method, Regula Falsi, Newton Raphson methods are discussed in detail. Fourth chapter focuses mainly on solution of simultaneous linear equations. Graphical, matrix inversion, substitution, Gauss'

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elimination, Gauss Jordan, LU decomposition, Gauss Seidel methods are discussed with the help of numerical examples. Curve fitting is discussed in fifth chapter. Finite differences operators, finite differences, Newton's

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**forward and backward
difference interpolation,
divided differences
interpolation, Lagrange's
interpolation, inverse
interpolation, least squares
approximation are presented.
Numerical differentiation and**

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integration is given in sixth and seventh chapter. Simpson's and trapezoidal rules of integration are presented. Solution of ordinary differential equations is given in eighth chapter. Taylor series,

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Picard's methods, Euler's RK methods, Predictor corrector methods, boundary value problems and eigen value problems are also presented. Last chapter deals with unconstrained and constrained optimization. All

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the methods are implemented using C-program and some of them with MATLAB. Large number of solved and unsolved examples are also given.

Amplitude modulation and Angle modulation are

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discussed in first two chapters. AM, FM, analysis equations, modulators, detectors, transmission and reception are thoroughly presented. SSB, DSB, VSB, FDM are also discussed. Noise theory is given in third

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chapter. It includes random variables, probability, random processes and correlation functions. Noise factor, noise temperature and mathematical analysis of noise is presented. Performance of modulation

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systems in the presence of noise is explained in fourth chapter. Figure of merit, capture effect and threshold effect are also presented. Last chapter presents information theory. Entropy information rate, discrete

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memoryless source, source coding, Shannon's theorems are also given in detail.

Mutual information and channel capacity are also presented.

**Digital Signal Processing
Analog and Digital**

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Communication

**For ECE Competitive
Examinations**

Analog Communication

The most important resources in civil aviation and commercial use of the outer space are legal rights to

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occupy certain space in airports and geostationary orbits respectively. This book clarifies the nature of the rights called "slots" in both arena. It then reviews both the domestic and international slot distribution mechanisms and

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Common Law principles therein. Wireless networks represent an inexpensive and convenient way to connect to the Internet. However, despite their applications across several technologies, one challenge still remains: to understand the

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behavior of wireless sensor networks and assess their performance in large-scale scenarios. When a large number of network nodes need to interact, developing suitable analytical models is essential to ensure the

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appropriate coverage and throughput of these networks and to enhance user mobility. This is intrinsically difficult due to the size and number of different network nodes and users. This book highlights some examples which

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show how this problem can be overcome with the use of different techniques. An intensive parameter analysis shows the reader how to the exploit analytical models for an effective development and management of different types of

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wireless networks.

With a strong focus on basic principles and applications, this thoroughly up-to-date text provides a solid foundation in the concepts, methods, and algorithms of digital signal processing. Key topics such

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as spectral analysis, discrete-time systems, the sampling process, and digital filter design are all covered in well-illustrated detail.". "Filled with examples and problems that can be worked in MATLAB or the author's DSP software, D-Filter, Digital

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Signal Processing offers a fully interactive approach to successfully mastering DSP.". "Accessible and comprehensive, this resource covers the essentials of DSP theory and practice."--BOOK JACKET.
Analog and Digital Communication

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Engineering

Stochastic Processes and

Language Models

Signals & Systems

Digital Communications

Theory and Applications

Computational Science – ICCS

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2019

New edition of a text intended primarily for the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental

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importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences.

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Discussion of applications is emphasized, and numerous worked examples are included. Annotation copyrighted by Book News, Inc., Portland, OR
There are eight chapters, useful appendix and solved question papers in the book. Basic digital

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communication, line codes and sampling methods are presented at the beginning. Digital pulse modulation techniques such as PCM, DPCM, DM, ADM are presented. Continuous wave digital modulation methods such as BPSK, DPSK, QPSK, QAM,

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BFSK and OOK are presented with mathematical analysis of modulators and receivers. Issues related to baseband transmission such as ISI, Nyquist pulse shaping criterion, optimum reception, matched filter and eye patterns are also discussed.

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Concepts of information theory such as discrete memoryless channels, mutual information, shannon's theorems on source coding are also presented. Coding using linear block codes, cyclic codes and convolutional coding is also discussed. Secured

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communication using spread spectrum modulation is also discussed in detail.

Analysis tools such as Fourier series, Fourier transforms signals, systems and spectral densities are discussed in the second chapter. Introduction is

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presented in the first chapter. Third chapter presents additional analysis techniques such as probability, random variables, distribution functions and density functions. Probability models and random processes are also discussed. Noise representation,

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sources, noise factor, noise temperature, filtering of noise, noise bandwidth and performance of AM/FM in presence of noise is discussed in fourth chapter. Analog pulse modulation is presented in fifth chapter. Sampling, PAM,

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PAM/TDM are discussed in this chapter. Sixth chapter deals with digital pulse modulation methods such as PCM, DM, ADM and DPCM. Seventh chapter presents digital multiplexers, line coding, synchronization, scramblers, ISI, eye patterns and equalization

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techniques. Digital modulation is presented in eighth chapter. Phase shift keying, frequency shift keying, QPSK, QAM and MSK are presented. Last chapter deals with error performance of these techniques using matched filter.

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Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication Engineering (ECE)-3-year course offered by various Indian and

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foreign polytechnics and technical institutes like city and guilds of London Institute(CGLI).2.B.E.(Elect.& Comm.)-4-year course offered by various Engineering Colleges.efforts have beenmade to cover the papers:Electronics-I

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*& II and Pulse and Digital
Circuits.3.B.Sc.(Elect.)-3-Year
vocationalised course recently
introduced by Approach.*

*Information Theory and Coding
19th International Conference,
Faro, Portugal, June 12-14, 2019,
Proceedings, Part I*

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*Analytical Modeling of Wireless
Communication Systems*

Electromagnetic Field Theory

Electronics and Communication

Engineering Handbook

This book presents theoretical and application topics in digital signal processing (DSP). The topics here

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comprise clever DSP tricks of the trade not covered in traditional DSP textbooks. Here we go beyond the standard DSP fundamentals textbook and present new, but tried-n-true, clever implementations of digital filter

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design, spectrum analysis, signal generation, high-speed function approximation and various other DSP functions. With this book we wished to create a resource that is relevant to the needs of the working DSP engineer by helping

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bridge the theory-to-practice gap between introductory DSP textbooks and the esoteric, difficult to understand, academic journals. This book will be useful to experienced DSP engineers, due to its gentle tutorial style it will also

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be of considerable value to the DSP beginner. The mathematics used herein is simple algebra and the arithmetic of complex numbers, making this material accessible to a wide engineering and scientific audience.

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Fortunately, the chapter topics in this book are written in a standalone manner, so the subject matter can be read in any desired order.

First chapter deals with probability and random variable discussion.

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CDF, PDF and two dimensional random variables are discussed. Second chapter presents various useful probability distribution models. It also presents useful statistical averages such as mean, moments, variance, etc. Third

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chapter presents basic statistics concepts. Mean, median, mode, moments, variance, Kurtosis, skewness are discussed.

Correlation, regression, Chebyshev inequality are also presented.

Fourth chapter discusses

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formation of hypothesis, tests of significance and chi-square distribution. Last chapter presents curve fitting using straight line and second degree parabola.

The present book has been throughly revised and lot of useful

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material has been added .saveral
photographs of electronic devices
and their specifications sheets
have been included.This will help
the students to have a better
understanding of the electrinic
devices and circuits from

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application point of view.the
mistake and misprints,which has
crept in,have been eliminated in
this edition.

This book constitutes the refereed
proceedings of the First
International Conference on

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Advanced Hybrid Information Processing, ADHIB 2017, held in Harbin, China, in July 2017. The 64 full papers were selected from 134 submissions and focus on advanced methods and applications for hybrid information

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processing.

Basic Electronics

Communication Systems - I

The Scientist and Engineer's Guide
to Digital Signal Processing

Analog and Digital Communication
Engineering

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The Origin of Injustice in Air and
Space Law

**The renowned communications theorist
Robert Gallager brings his lucid writing
style to the study of the fundamental
system aspects of digital
communication for a one-semester
course for graduate students. With the**

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clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and

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links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis

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and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

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Amplitude Modulation : Transmission and Reception Principles of amplitude modulation - AM envelope, Frequency spectrum and bandwidth, Modulation index and Percent modulation, AM power distribution, AM modulator circuits- low-level AM modulator, Medium power AM modulator, AM

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**transmitters-Low-level transmitters,
High level transmitters, receiver
parameters, AM reception - AM
receivers - TRF, Super heterodyne
receiver, Double conversion AM
receivers.Angle Modulation :
Transmission and Reception Angle
modulation - FM and PM waveforms,**

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**Phase deviation and Modulation index,
Frequency deviation, Phase and
Frequency modulators and
demodulators, Frequency spectrum of
Angle - Modulated waves. Bandwidth
requirements of Angle modulated
waves, Commercial Broadcast band
FM, Average power of an angle**

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modulated wave, Frequency and Phase modulators, A direct FM transmitters, Indirect transmitters, Angle modulation Vs Amplitude modulation, FM receivers : FM demodulators, PLL FM demodulators, FM noise suppression, Frequency versus Phase modulation. Digital Transmission and

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**Data Communication Introduction,
Pulse modulation, PCM - PCM
sampling, Sampling rate, Signal to
quantization noise rate, Companding -
Analog and Digital - Percentage error,
Delta modulation, Adaptive delta
modulation, Differential pulse code
modulation, Pulse transmission - ISI,**

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Eyepattern, Data communication history, Standards, Data communication circuits, Data communication codes, Error control, Hardware, Serial and Parallel interfaces, Data modems, - Asynchronous modem, Synchronous modem, Low-speed modem, Medium

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and High speed modem, Modem control. Digital Communication Introduction, Shannon limit for information capacity, Digital amplitude modulation, Frequency shift keying, FSK bit rate and baud, FSK transmitter, BW consideration of FSK, FSK receiver, Phase shift keying -

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**Binary phase shift keying - QPSK,
Quadrature Amplitude modulation,
Bandwidth efficiency, Carrier recovery
- Squaring loop, Costas loop,
DPSK. Spread Spectrum and Multiple
Access Techniques Introduction,
Pseudo-noise sequence, DS spread
spectrum with coherent binary PSK,**

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**Processing gain, FH spread spectrum,
Multiple access techniques - Wireless
communication, TDMA and FDMA,
Wireless communication systems,
Source coding of speech for wireless
communications.**

**This book consolidates and summarizes
smart technologies like IoT, edge**

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computing, and AI used in different aspects of waste material management, mitigation, and recycling for a sustainable environment. One of the cases explains how IoT-based systems and wireless sensors can be used to continuously detect common pollutants such as volatile organic compounds

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(VOCs), carbon monoxide, and particulate matter (PM) and how the data collected are used to assess the overall air quality and determine actions for improvements. A collection of practical case studies, this book provides a comprehensive knowledge in smart waste management to readers in

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universities, research centers, and industries.

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is

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structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as

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Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy

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in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The

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chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element

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and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good

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conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the

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knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

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DIGITAL SIGNAL PROCESSING

A Textbook Of Digital Signal

Processing

Principles of Communication

Fiber-optic Communication Systems

Communication Engineering

Discover new theoretical

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connections between stochastic phenomena and the structure of natural language with this powerful volume! Information Theory Meets Power Laws: Stochastic Processes and Language Models presents

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readers with a novel subtype of a probabilistic approach to language, which is based on statistical laws of texts and their analysis by means of information theory. The distinguished author insightfully and rigorously

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examines the linguistic and mathematical subject matter while eschewing needlessly abstract and superfluous constructions. The book begins with a less formal treatment of its subjects in the first chapter,

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introducing its concepts to readers without mathematical training and allowing those unfamiliar with linguistics to learn the book's motivations. Despite its inherent complexity, Information Theory Meets Power

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Laws: Stochastic Processes and Language Models is a surprisingly approachable treatment of idealized mathematical models of human language. The author succeeds in developing some of the theory

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underlying fundamental stochastic and semantic phenomena, like strong nonergodicity, in a way that has not previously been seriously attempted. In doing so, he covers topics including: Zipf's

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and Herdan's laws for natural language Power laws for information, repetitions, and correlations Markov, finite-state, and Santa Fe processes Bayesian and frequentist interpretations of probability

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Ergodic decomposition,
Kolmogorov complexity, and
universal coding Theorems
about facts and words
Information measures for fields
Rényi entropies, recurrence
times, and subword complexity

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Asymptotically mean stationary processes
Written primarily for
mathematics graduate students
and professionals interested in
information theory or discrete
stochastic processes,
Information Theory Meets Power

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Laws: Stochastic Processes and Language Models also belongs on the bookshelves of doctoral students and researchers in artificial intelligence, computational and quantitative linguistics as well as physics of

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complex systems.

The five-volume set LNCS
11536, 11537, 11538, 11539,
and 11540 constitutes the
proceedings of the 19th
International Conference on
Computational Science, ICCS

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2019, held in Faro, Portugal, in June 2019. The total of 65 full papers and 168 workshop papers presented in this book set were carefully reviewed and selected from 573 submissions (228 submissions to the main

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track and 345 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track
Part II: ICCS Main Track; Track of Advances in High-Performance Computational

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Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of

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Architecture, Languages,
Compilation and Hardware
Support for Emerging and
Heterogeneous Systems Part III:
Track of Biomedical and
Bioinformatics Challenges for
Computer Science; Track of

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Classifier Learning from Difficult
Data; Track of Computational
Finance and Business
Intelligence; Track of
Computational Optimization,
Modelling and Simulation; Track
of Computational Science in IoT

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and Smart Systems Part IV:
Track of Data-Driven
Computational Sciences; Track
of Machine Learning and Data
Assimilation for Dynamical
Systems; Track of Marine
Computing in the Interconnected

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World for the Benefit of the
Society; Track of Multiscale
Modelling and Simulation; Track
of Simulations of Flow and
Transport: Modeling, Algorithms
and Computation Part V: Track
of Smart Systems: Computer

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Vision, Sensor Networks and
Machine Learning; Track of
Solving Problems with
Uncertainties; Track of Teaching
Computational Science; Poster
Track ICCS 2019 Chapter
□ Comparing Domain-

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decomposition Methods for the
Parallelization of Distributed
Land Surface Models is
available open access under a
Creative Commons Attribution
4.0 International License via
link.springer.com.

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Power semiconductor devices are discussed in first chapter. SCR, GTO, LASCR, RCT, MCT, characteristics, rating turn-off and turn-on is presented. Power BJT, MOSFET, IGBT, driving circuits, protection and snubber

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circuits are also discussed.

Commutation circuits and series and parallel operation are presented. Single and three phase controlled converters are given in second chapter. Half wave, full wave, midpoint,

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semiconverters, full converters, dual converters and effect of source inductance is also given. Operation with resistive and inductive load is discussed. Third chapter presents AC voltage controllers and cycloconverters.

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On-off control, phase control, triac based controllers are given. Cycloconverters and operations with inductive as well as resistive load are discussed. Choppers are given in fourth chapter. Step down, step up, voltage, current

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and load commutated choppers are given. Classification is also discussed. Last chapter presents inverters. Half bridge, full bridge, quasi square wave, push-pull, thyristorized inverters with resistive and inductive loads are

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given. Switching techniques for PWM inverters are also given. The second edition of this well received text continues to provide coherent and comprehensive coverage of digital signal processing. It is

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designed for undergraduate students of Electronics and Communication engineering, Telecommunication engineering, Electronics and Instrumentation engineering, Electrical and Electronics engineering,

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Electronics and Computers engineering, Biomedical engineering and Medical Electronics engineering. This book will also be useful to AMIE and IETE students. Written with student-centred, pedagogically-

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driven approach, the text provides a self-contained introduction to the theory of digital signal processing. It covers topics ranging from basic discrete-time signals and systems, discrete convolution

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and correlation, Z-transform and its applications, realization of discrete-time systems, discrete-time Fourier transform, discrete Fourier series, discrete Fourier transform to fast Fourier transform. In addition to this,

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various design techniques for design of IIR and FIR filters are discussed. Multi-rate digital signal processing and introduction to digital signal processors and finite word length effects on digital filters are also

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covered. All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way. MATLAB programs and the results for typical examples are also included at the end of chapters

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for the benefit of the students.

New to This Edition A chapter on
Finite Word Length Effects in
Digital Filters Key Features □
Numerous worked-out examples
in each chapter □ Short questions
with answers help students to

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prepare for examinations and interviews □ Fill in the blanks, review questions, objective type questions and unsolved problems at the end of each chapter to test the level of understanding of the subject

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IoT-Based Smart Waste
Management for Environmental
Sustainability
Signals & System Analysis
Power Electronics
de facto property rights by virtue
of the "first come, first served"

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rule

Probability and Statistics

Elements of Communication
System and its

Limitations Amplitude

Modulation Amplitude modulation
and detection, Generation and

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detection of DSB-SC, SSB and vestigial side band modulation, Carrier acquisition. AM transmitters and receivers, Superheterodyne receiver, IF amplifiers, AGC circuits, Frequency division multiplexing. Angle Modulation Basic definitions, Narrow band and

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wideband frequency modulation,
Transmission bandwidth of FM
signals. Generation and detection
of frequency modulation.Noise :
External noise, Internal noise, Noise
calculations, Signal to noise ratio,
Noise in AM and FM systems.Pulse
ModulationSampling process,

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Analog pulse modulation systems,
Pulse amplitude modulation, Pulse
width modulation and pulse
position modulation. Waveform
Coding Techniques : Discretization
in time and amplitude, Quantization
process, Quantization noise, Pulse
code modulation, Differential pulse

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code modulation, Delta modulation and adaptive delta modulation. Digital Modulation Techniques Types of digital modulation, Waveforms for amplitude, frequency and phase shift keying, Methods of generation of coherent and non-coherent, ASK,

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FSK and PSK, Comparison of above digital techniques. Time Division Multiplexing Fundamentals, Electronic commutator, Bit/byte interleaving, T1 carrier system, Synchronization and signaling of T1, TDM and PCM hierarchy, Synchronization

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techniques. Information Theory :
Measure of information, Entropy
and information rate, Channel
capacity, Hartley Shannon law,
Huffman coding, Shannon Fano
coding.

Analysis of signals is given in first
chapter. Types of signals,

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properties of systems are also presented. Second chapter presents Fourier series analysis. Its properties are also discussed. Fourier transform is given in third chapter, along with its properties. The transmission of signals through linear systems is given in

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fourth chapter. Realizability and distortion less transmission is also discussed. Fifth chapter discusses, convolution, its properties and impulse response properties of LTI systems. Causality and stability are discussed. Autocorrelation and cross correlation is also given.

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Energy spectral density and power spectral density along with their properties are also given. Sampling principles and types are given in sixth chapter. Chapter seventh and eighth presents Laplace transforms and z-transforms in detail. Their properties, inversion and

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applications to LTI systems are analyzed in detail. Relationships among transforms are also given. All the concepts are supported with lot of solved examples.

Communication / Pulse Modulation
Block schematic of Communication System, Base Band Signals and

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their bandwidth requirements, RF Bands, Types and Communication Channels (Transmission Lines, Parallel Wires, Co-axial Cables, Waveguides and Optical Fiber). Necessity of Modulation, Types of Modulation : AM, FM, PM and Pulse Modulation. Block schematic of

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PAM, PWM, PPM. Multiplexing :
TDM, FDM. Amplitude Modulation
Mathematical treatment and
expression for AM, Frequency
Spectrum, Modulation Index, Power
Relation as applied to Sinusoidal
Signals, Representation of AM
wave, Mathematical treatment as

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applied to general signals in
Communication, Generation of AM
using non-linear property. Types of
AM Transmitters DSB-FC, DSB-SC,
SSB, ISB & VSB, their generation
methods and Comparison in terms
of Bandwidth and Transmission
Power requirements & Complexity

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(Block diagram treatment only) Angle Modulation Mathematical analysis of FM and PM using Sinusoidal Signals, Frequency spectrum, Mathematical treatment as applied to general non-sinusoidal Signals, Modulation index, Bandwidth requirements (all

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three relations). Narrowband and Wideband FM, Comparison of FM and PM, Direct and Indirect methods of FM generation, Need for Pre-emphasis, Comparison of AM and FM. AM & FM Receivers Block diagram of AM and FM receivers, Superheterodyne Receiver,

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Performance characteristics :
Sensitivity, Selectivity, Fidelity,
Image Frequency Rejection, IFRR,
Tracking, De-emphasis, Mixers.AM
DetectionEnvelope detection,
Synchronous detection, Practical
diode detection, AGC. SSB and DSB
detection methods.FM

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Detection Phase discriminator and Ratio Detector, Mathematical analysis of FM Detection. Noise Sources of Noise, Types of Noise, White Noise, SNR, Noise Figure, Noise Temperature, Friis formula for Noise Figure, Noise Bandwidth, Performance of AM (DSB, SSB &

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VSB) and FM in presence of Noise :
Mathematical treatment
Radiation
and Propagation
Concept of
Radiation, Basic Antenna System
(Dipole), Antenna parameters, Yagi
Antenna. Mechanism of
Propagation : Ground Wave, Sky
Wave, Space Wave, Duct,

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Tropospheric Scatter and
Extraterrestrial Propagation.
Concept of Fading and diversity
reception.

The book is written for an
undergraduate course on the
Signals and Systems. It provides
comprehensive explanation of

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continuous time signals and systems , analogous systems, Fourier transform, Laplace transform, state variable analysis and z-transform analysis of systems. The book starts with the various types of signals and operations on signals. It explains

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the classification of continuous time signals and systems. Then it includes the discussion of analogous systems. The book provides detailed discussion of Fourier transform representation, properties of Fourier transform and its applications to network analysis.

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The book also covers the Laplace transform, its properties and network analysis using Laplace transform with and without initial conditions. The book provides the detailed explanation of modern approach of system analysis called the state variable analysis. It

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includes various methods of state space representation of systems, finding the state transition matrix and solution of state equation. The discussion of network topology is also included in the book. The chapter on z-transform includes the properties of ROC, properties of z-

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transform, inverse z-transform, z-transform analysis of LTI systems and pulse transfer function. The state space representation of discrete systems is also incorporated in the book. The book uses plain, simple and lucid language to explain each topic. The

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book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book. The book explains the philosophy of the subject which makes the

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understanding of the concepts very clear and makes the subject more interesting.

Wireless Communication
Fundamentals and Applications
Signals and Systems
Communication Theory
First International Conference,

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ADHIP 2017, Harbin, China, July
17-18, 2017, Proceedings

**Designed as a text for the
undergraduate students of
Electronics and Communication
Engineering/Electronics and
Telecommunication Engineering as
well as for postgraduate students of**

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Communication Systems/Electronics and Communication Engineering, the book presents all the topics related to satellite communication in an organised way, starting from the basic concepts to the latest advancements in the field. The book

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commences with an introductory chapter that familiarises the readers with the evolution of satellite communication. The following chapters expatiate on orbital mechanics, perturbation factors of the orbit and different orbit configurations. Next, the launching

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mechanism and satellite sub-systems, which together configure a complete satellite system, are focused. The book further explicates the link calculation to facilitate the design aspect. In addition, satellite access mechanism, and Internet linking via

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satellite are also outlined in the text. Finally, the concluding chapters of the book elaborate navigation satellite, direct broadcasting satellite television, VSAT and special purpose satellites. With all the contents enriched by the vast experience of the author, the book

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provides a comprehensive treatment of the subject, and enables the students to rely upon this exclusive book only. KEY FEATURES The presentation of every topic is kept simple and systematic to help students understand the complicated

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concepts easily. Annexures covering presentations of some additional relevant information are appended to most of the chapters. The book is rich in pedagogical features to the full, which include ample figures and tables, summary and review questions at the end of

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each chapter. Solved numerical problems are provided in between the text. Bibliography is given at the end of the book.

Introduction in first chapter includes various topics given in the book. Second chapter deals with information theory that includes

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modes of sources and channels, information and entropy, source coding, discrete memoryless channels, mutual information and Shannon's theorems are given. Linear block codes, cyclic codes, Hamming codes, syndrome decoding, convolutional codes are

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given in third chapter. Spread spectrum communication includes pseudo noise sequences, direct sequence and frequency hop spread spectrum. It is presented in fourth chapter. Multiple access techniques are reviewed in fifth chapter. Sixth chapter deals with

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satellite communications. Satellite orbits, satellite access, earth station, transponder, frequency reuse, link budget, VSAT and MSAT are presented. Fibre optic communication is introduced in seventh chapter. Light propagation in fiber, losses, modes, dispersion,

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light sources and detectors, fiber optic link are presented in this chapter.

CD-ROM contains: a software package for designing fiber-optic communication systems called "OptiSystem Lite" and a set of problems for each chapter.

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Signals, Systems, and Filters
Communication Systems - II
SATELLITE COMMUNICATION
Communication Systems
Solid State