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Elements of Communication System and its Limitations  
Amplitude Modulation  
Amplitude modulation and detection, Generation and 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 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 Modulation  
Sampling process, 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 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, 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 techniques.  
Information Theory : Measure of information, Entropy and information rate, Channel capacity, Hartley Shannon law, Huffman coding, Shannon Fano coding.

Amplitude modulation and Angle modulation are 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 chapter. It

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includes random variables, probability, random processes and correlation functions. Noise factor, noise temperature and mathematical analysis of noise is presented. Performance of modulation 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 memoryless source, source coding, Shannon's theorems are also given in detail. Mutual information and channel capacity are also presented.

Modulation Systems Time and frequency domain representation of signals, Amplitude modulation and demodulation, Frequency modulation and demodulation, Super heterodyne radio receiver. Frequency division multiplexing, Pulse width modulation. Transmission Medium Transmission lines - Types, Equivalent circuit, Losses, Standing waves, Impedance matching, Bandwidth: Radio propagation - Ground wave and space wave propagation, Critical frequency maximum usable 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 phase shift keying - Modulator and demodulator, Bit error rate calculation. Data Communication and Network Protocol Data communication codes, Error control, Serial and parallel interface, 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 models, satellite system link equations: advantages of optical fibre communication - Light propagation through fibre, Fibre loss, Light sources and detectors.



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

There are eight chapters, useful appendix and solved question papers in the book. Basic digital 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, 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. Concepts of information theory such as discrete memoryless channels, mutual information, Shannon's theorems on source coding are also

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presented. Coding using linear block codes, cyclic codes and convolutional coding is also discussed. Secured communication using spread spectrum modulation is also discussed in detail.

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 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, 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. 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 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 given. Switching techniques for PWM inverters are also given.

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 transmitters-Low-level transmitters, High level transmitters, receiver

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parameters, AM reception - AM receivers - TRF, Super heterodyne receiver, Double conversion AM receivers. Angle Modulation : Transmission and Reception Angle modulation - FM and PM waveforms, 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 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 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, 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 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 - 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, Processing gain, FH spread spectrum, Multiple access techniques - Wireless communication, TDMA and FDMA, Wireless communication systems, Source coding of

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speech for wireless communications.

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 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 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 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.

Pulse Digital Modulation Elements of digital communication systems, Advantages of digital communication systems, Elements of PCM : Sampling, Quantization & Coding, Quantization error, Companding in PCM systems. Differential PCM systems (DPCM). Delta Modulation Delta modulation, its drawbacks, Adaptive delta modulation, Comparison of PCM and DM systems, Noise in PCM and DM systems. Digital Modulation Techniques Introduction ASK, FSK, PSK, DPSK, DEPSK, QPSK, M-ary, PSK, ASK, FSK, similarity of BFSK and BPSK. Data Transmission Base band signal receiver, Probability of error, the optimum filter, Matched filter,

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Probability of error using matched filter, Coherent reception, Non-coherent detection of FSK, Calculation of error probability of ASK, BPSK, BFSK, QPSK. Information Theory Discrete messages, Concept of amount of information and its properties, Average information, Entropy and its properties, Information rate, Mutual information and its properties. Source Coding Introduction, Advantages, Shannon's theorem, Shannon-Fano coding, Huffman coding, Efficiency calculations, Channel capacity of discrete and analog channels, Capacity of a Gaussian channel, Bandwidth-S/N trade off. Linear Block Codes Introduction, Matrix description of Linear Block codes, Error detection and error correction capabilities of Linear block codes, Hamming codes, Binary cyclic codes, Algebraic structure, Encoding, Syndrome calculation, BCH Codes. Convolution Codes Introduction, Encoding of convolution codes, Time domain approach, Transform domain approach, Graphical approach : state, Tree and trellis diagram decoding using Viterbi algorithm.

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

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modern approach of system analysis called the state variable analysis. It 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-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 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 understanding of the concepts very clear and makes the subject more interesting.

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