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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.

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.

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 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.

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 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.

Various measures of information are discussed in first chapter. Information rate, entropy and Markoff models are presented. Second and third chapter deals with source coding. Shannon's encoding algorithm, discrete communication channels, 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 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 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 presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail.

The book, though comprehensive, has been developed in a reader-friendly fashion by providing numerous pedagogical aids for the study of Communication Systems. The product has been designed as per the need of the student whose requirement is to gain apt knowledge as per the examinations. An important feature is that the book takes a balanced approach towards both Analog & Digital Communications. feature • MATLAB incorporated within text (approx 120 examples) • Important points and commonly made mistakes specially highlighted • Numerous interesting pedagogical features closely resembling examination patterns – fill-in-the blanks, MCQs, short answer type questions etc

Introduction in first chapter includes various topics given in the book. Second chapter deals with information theory that includes 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 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 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, light sources and detectors, fiber optic link are presented in this chapter.

The book is written for an undergraduate course on the Communication Network and Transmission Lines. It provides comprehensive explanation of four terminal symmetrical and asymmetrical networks, attenuators, filters, network synthesis, equalizers, transmission line theory and Smith chart. The book starts with explaining the symmetrical and asymmetrical four terminal networks which form the basis of attenuators and filters. Then book provides the detailed discussion of various types of attenuators and filters. The discussion of composite filters, lattice filter and crystal filter is also included in support. The

book incorporates the discussion of Hurwitz polynomials and positive real function and continues to explain the network synthesis of LC, RC, RL and RLC networks. The book also explains the various types of equalizers. The book covers the transmission line parameters in detail along with reflection on a line, reflection loss and reflection factor. The chapter on transmission line at radio frequency includes parameters of line at high frequency, standing waves, standing wave ratio, single stub matching, double stub matching and Smith chart. 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.

Analysis of signals is given in first chapter. Types of signals, 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 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. 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 applications to LTI systems are analyzed in detail. Relationships among transforms are also given. All the concepts are supported with lot of solved examples.

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