Communication Engineering

Sub. Code : EC8395

ANNA UNIVERSITY • CBGS SCHEME • REGULATION 2017
SEM III (CSE)
SEM VI (EEE)
PROFESSIONAL
ELECTIVE II

- SIMPLIFIED & CONCEPTUAL APPROACH
- 2 MARKS QUESTIONS WITH ANSWERS
- CHAPTERWISE SOLVED AU QUESTIONS DEC. 2002 to MAY 2019
- SOLVED AU QUESTION PAPERS DEC. 2018 to MAY 2019

TECHNICAL PUBLICATIONS
SINCE 1993
An Up-Thrust for Knowledge

Dr. J. S. Chitode

Communication Engineering Chitode

Ying-Ying Zheng

Communication Engineering Chitode:

Communication Systems - I Dr. J. S. Chitode,2020-12-01 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 Communication Systems - II Dr. J. S. Chitode,2020-12-01 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

Communication Theory Dr. J. S. Chitode,2021-01-01 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 **Digital Communications** Dr. J. S. Chitode,2020-12-01 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 criterian 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 *Analog and Digital Communication* J. S. Chitode,2009 Amplitude Modulation Transmission and ReceptionPrinciples 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 parameters AM reception AM receivers TRF Super heterodyne receiver Double conversion AM recivers 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 CommunicationIntroduction Pulse modulation PCM PCM sampling Sampling rate Signal to quantization noise rate Companding Analog and Digtial Percentage error Delta modulation Adaptive delta modulation Differential pusle 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 Quandrature 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 speech for wireless communications **Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations** Anna M. Doro-on,2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With

this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations **Wireless Communication** Mainak Chowdhury,Arumita Biswas,2017-01-16 Owing to the rapid developments and growth in the telecommunications industry the need to develop relevant skills in this field are in high demand Wireless technology helps to exchange the information between portable devices situated globally In order to fulfil the demands of this developing field a unified approach between fundamental concepts and advanced topics is required The book bridges the gap with a focus on key concepts along with the latest developments including turbo coding smart antennas multiple input multiple output MIMO system and software defined radio It also underpins the design requirements of wireless systems and provides comprehensive coverage of the cellular system and its generations 3G and 4G Long Term Evolution With numerous solved examples numerical questions open book exam questions and illustrations undergraduates and graduate students will find this to be a readable and highly useful text **SATELLITE COMMUNICATION** BANERJEE, P.,2017-06-01 Designed as a text for the undergraduate students of Electronics and Communication Engineering Electronics and Telecommunication Engineering as well as for postgraduate students of 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 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 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 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 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 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 each chapter Solved numerical problems

are provided in between the text Bibliography is given at the end of the book **Communication Systems** J.. S. Chitode,V. S. Bagad,2004 Principles of Communication J. S. Chitode,2009 Communication process Source of information Communication channels Base band and Pass band signals Representation of signal and systems The modulation process Primary communication resources Analog versus digital communications Amplitude modulationFrequency division and time division multiplexing Suppressed 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 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 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 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 communication systems Noise in amplitude modulated angle modulated and pulse modulated systems Comparison of coded and un coded systems Information TransmissionMeasures of information Channel capacity transmission of continuous signals Exchange of bandwidth for signal to noise ratio Efficiency of PCM systems **Communication Engineering** Chitode J. S.,2009 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 **Information Theory and Coding** Dr. J. S. Chitode,2021-01-01 Various measures of 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 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 **Analog and Digital Communication Engineering** J. S. Chitode,2009 Elements of Communication System and its LimitationsAmplitude ModulationAmplitude 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 ModulationBasic 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 ModulationSampling 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 TechniquesTypes 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 MultiplexingFundamentals 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 **Communication Systems and Techniques** Mischa Schwartz,William R. Bennett,Seymour Stein,1995-11-22 An introductory graduate level look at modern communications in general and radio communications in particular This seminal presentation of the applications of communication theory to signal and receiver design brings you valuable insights into the fundamental concepts underlying today s communications systems especially wireless communications Coverage includes AM FM Phase Modulation PCM fading and diversity receivers This is a classic reissue of a book published by McGraw Hill in 1966 **Communication Systems Engineering** John G. Proakis,Masoud Salehi,1994 This text introduces the basic principles underlying the analysis and design of communication systems with an emphasis on digital communications It features thorough coverage of all relevant topics in communications system design including source coding channel coding baseband and carrier modulation channel distortion channel equalization and sychronization Emphasis is placed upon digital communications but analog modulation techniques are covered in sufficient detail Spread spectrum modulation is covered A CD player and magnetic recording are presented as examples of systems that employ modern communications priciples Over 450 problems and worked out examples involving applications to practical systems such as satellite communications systems ionospheric channels and mobile radio channels are also included

Communication Engineering Principles Ifiok Otung,2021-01-13 For those seeking a thorough grounding in modern

communication engineering principles delivered with unrivaled clarity using an engineering first approach Communication Engineering Principles 2nd Edition provides readers with comprehensive background information and instruction in the rapidly expanding and growing field of communication engineering This book is well suited as a textbook in any of the following courses of study Telecommunication Mobile Communication Satellite Communication Optical Communication Electronics Computer Systems Primarily designed as a textbook for undergraduate programs Communication Engineering Principles 2nd Edition can also be highly valuable in a variety of MSc programs Communication Engineering Principles grounds its readers in the core concepts and theory required for an in depth understanding of the subject It also covers many of the modern practical techniques used in the field Along with an overview of communication systems the book covers topics like time and frequency domains analysis of signals and systems transmission media noise in communication systems analogue and digital modulation pulse shaping and detection and many others **Communication Systems for Electrical Engineers** Mohammad A. Matin,2017-12-28 This book is written as a very concise introduction for students taking a first course in communication systems It provides the reader with fundamentals of digital communication systems and disseminates the essentials needed for the understanding of wire and wireless communication systems for Electrical Engineers It covers important topics right from the beginning of the subject which communication engineers must understand Example problems in each chapter will help them in understanding the materials well The study of data networking will include multiple access reliable packet transmission routing and protocols of the internet The concepts taught in class will be discussed in the context of aerospace communication systems aircraft communications satellite communications The book includes example problems in each chapter to help the reader in understanding the materials well

Essentials of Communication Systems Engineering John G. Proakis,Masoud Salehi,2005 **Principles of Communication Engineering** A.K.Chhabra,2006 The first four chapters of the text describe different types of signals modulation and demodulation of these signals various transmission channels and noise encountered by the signals during propagation from sender to receiver end Apart from this this part of the book also deals with different forms of line communication systems A brif introduction of information theory is also given at the end of the text so that the students become familiar with this aspect of communication systems *Digital Communications* J. S. Chitode,2009 Pulse Digital ModulationElements of digital communication systems Advantages of digital communication systems Elements of PCM Sampling Quantization Coding Quantization error Compading in PCM systems Differential PCM systems DPCM Delta ModulationDelta modulation its drawbacks Adaptive delta modulation Comparison of PCM and DM systems Noise in PCM and DM systems Digital Modulation TechniquesIntroduction ASK FSK PSK DPSK DEPSK QPSK M ary PSK ASK FSK similarity of BFSK and BPSK Data TransmissionBase band signal receiver Probability of error the optimum filter Matched filter Probability of error using matched filter Coherent reception Non coherent detection of FSK Calculation of error

probability of ASK BPSK BFSK QPSK Information TheoryDiscrete messages Concept of amount of information and its properties Average information Entropy and its properties Information rate Mutual information and its properties Source CodingIntroduction 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 CodesIntroduction 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 CodesIntroduction Encoding of convolution codes Time domain approach Transform domain approach Graphical approach state Tree and trellis diagram decoding using Viterbi algorithm

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