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Lec 1 | MIT 6.450 Principles of Digital Communications I, Fall 2006

Signalling Theory: The Evolution of Natural Communication Systems

Source Coding Basics | Information Theory and Coding

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University - ELE 635 - Communication Systems - Lecture 1, Part 1

Ternary Huffman Coding | Solved problem | Information Theory and

Coding Week 1-Lecture 1 Signal-to-Noise Ratio Intoduction to

Communication System Communication Systems Framework: Communication

Control \u0026 Addressing Level Lecture 21: SNR-Bandwidth Trade-off

Basics Of Communication System What is Digital Communication?

Introduction to Computer Basics SOURCE CODING THEOREM COMPUTER

NETWORK: SIMPLE PERIODIC ANALOG SIGNAL, FREQUENCY, PHASE, WAVELENGTH |

tutorial 19 Communication systems 74: Generation of FM Waves: Direct

Method Communication Systems Framework Overview Introduction to

Digital Communication Systems

3. Introduction to Digital Communication Systems**Pre emphasis and de emphasis in FM systems**

Lecture 3 - The modern wireless Communication Systems

AM - Mathematical derivation**Lecture-1 Signals and Systems-**

Introduction *Simon Haykin Communication Systems 3rd*

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Er. Prof. Simon Haykin is Professor of Electrical Engineering; noted for his pioneering work in Adaptive Signal Processing with emphasis on applications to Radar Engineering and Telecom Technology. He is currently Distinguished University Professor at McMaster University in Hamilton, Ontario, Canada.. He received BSc (First-Class Honours); Ph.D., and DSc., degrees-all in Electrical Engineering ...

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Haykin.Reference: 1 Introduction to Digital Communication, by Rodger E. 3 Communication Systems, Simon Haykin, 4th Ed. Wiley, 2001.Communication Systems Simon Haykin, Michael Moher on Amazon.com. The theories and principles behind today's most advanced communications systems.A Conceptual Review of Digital Communication Systems.

Communication Theory By Simon Haykin Pdf [546gz3eeyqn8]

Synopsis This best selling, easy to read book offers the most complete discussion on the theories and principles behind today's most advanced communications systems. Throughout, Haykin emphasizes the statistical underpinnings of communication theory in a complete and detailed manner.

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This best-selling, easy to read book offers the most complete discussion on the theories and principles behind today's most advanced communications systems. Throughout, Haykin emphasizes the statistical underpinnings of communication theory in a complete and detailed manner.

The study of communication systems is basic to an undergraduate program in electrical engineering. In this third edition, the author has presented a study of classical communication theory in a logical and interesting manner. The material is illustrated with examples and computer-oriented experiments intended to help the reader develop an intuitive grasp of the theory under discussion. · Introduction· Representation of Signals and Systems· Continuous-Wave Modulation· Random Processes· Noise in CW Modulation Systems· Pulse Modulation· Baseband Pulse Transmission· Digital Passband Transmission· Spread-

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Spectrum Modulation · Fundamental Limits in Information Theory · Error Control Coding · Advanced Communication Systems

This best-selling, easy-to-read, communication systems text has been extensively revised to include the most exhaustive treatment of digital communications in an undergraduate level text. In addition to being the most up-to-date communications text available, Simon Haykin has added MATLAB computer experiments.

Offers the most complete, up-to-date coverage available on the principles of digital communications. Focuses on basic issues, relating theory to practice wherever possible. Numerous examples, worked out in detail, have been included to help the reader develop an intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control coding, robust quantization for pulse-code modulation, coding speech at low bit radio, information theoretic concepts, coding and computer communication. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at the undergraduate or graduate levels.

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.

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

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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.

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.

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.

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,

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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.

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