

ANALOG & DIGITAL COMMUNICATION LAB MANUAL



**DEPARTMENT OF ELECTRICAL ENGINEERING,
FAST-NU, LAHORE**

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Books in Print, 1994 Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12 **Forthcoming Books** Rose Arny, 1997-04 **Analog and Digital Communication** J. S. Chitode, 2009

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 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 speech for wireless communications A Selected Listing of NASA Scientific and Technical Reports for 1966 United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1967 **A Selected Listing of NASA Scientific and Technical Reports for ...** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966 **An Introduction to Analog and Digital Communications** Simon Haykin, Michael Moher, 2012-04-13 The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information bearing signals While it covers analog communications the emphasis is placed on digital technology It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system Readers will next learn about

electrical noise and then progress to multiplexing and multiple access techniques Advance Communication Lab Manual
Dr. Preeta Sharan,2009 **Introduction to Analog and Digital Communication** M. A. Bhagyaveni,R. Kalidoss,K. S.
Vishvakshenan,2016-04-15 This book primarily focuses on the design of analog and digital communication systems and has
been structured to cater to the second year engineering undergraduate students of Computer Science Information
Technology Electrical Engineering and Electronics and Communication departments For better understanding the basics of
analog communication systems are outlined before the digital communication systems section The content of this book is also
suitable for the students with little knowledge in communication systems The book is divided into five modules for efficient
presentation and it provides numerous examples and illustrations for the detailed understanding of the subject in a thorough
manner Technical topics discussed in the book include Analog modulation techniques AM FM and PM Digital modulation
techniques ASK PSK FSK QPSK MSK and M ary modulation Pulse modulation techniques and Data communication Source
coding techniques Shannon Fano and Huffman coding channel coding techniques Linear block codes and convolutional
codes Advanced communication techniques topics includes Cellular communication Satellite communication and multiple
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senior engineering Technology students This book should accompany regular textbook in analog and digital communication
The lab exercises use MATLAB SIMULINK Arduino Uno and employs hardware circuits *Government Reports*
Announcements & Index ,1985-12 *NASA SP.* ,1967 *Who's Who in Finance and Business* Marquis Who's Who,
LLC,National Register Publishing,2005-12 **Ocean Science on Station** ,1968 *Analog and Digital Communication*
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