

ANALOG & DIGITAL COMMUNICATION LAB MANUAL



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

Analog And Digital Communication Lab Manual Vtu

Jai Agrawal



Analog And Digital Communication Lab Manual Vtu:

Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12 Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09 *Analog and Digital Communication Lab* Jai Agrawal, 2015-04-09 This lab book is intended for the Junior 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 **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 Eye pattern 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 Analog and Digital Communication S. Rameshbabu, Dr. S. Prabhakar rao, J. Sunilkumar, Sahebgoud karaddi, 2022-08-04 An introductory course on analog and digital communications is fundamental to the undergraduate program in electrical engineering This course is usually offered at the junior level Typically it is assumed that the student has a background in calculus electronics signals and systems and possibly probability theory Bearing in mind the introductory nature of this course a textbook recommended for the course must be easy to read

accurate and contain an abundance of insightful examples problems and computer experiments These objectives of the book are needed to expedite learning the fundamentals of communication systems at an introductory level and in an effective manner This book has been written with all of these objectives in mind Given the mathematical nature of communication theory it is rather easy for the reader to lose sight of the practical side of communication systems Throughout the book we have made a special effort not to fall into this trap We have done this by moving through the treatment of the subject in an orderly manner always trying to keep the mathematical treatment at an easy to grasp level and also pointing out practical relevance of the theory wherever it is appropriate to do so

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

Introduction to Analog and Digital Communication M A Bhagyaveni, R Kalidoss, K S Vishvakshenan, 2024-10-21 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

Analogue and Digital Communication Techniques Grahame Smillie, 1999-04-02 The rapid expansion of digital communications particularly in the fields of TV and mobile telephones does not override the need for a clear understanding of analogue frequencies Moreover analogue technology will play an important role in communications well into the 21st century Covering the principles behind analogue and digital communication systems this book takes a less mathematical approach than is often found at this level It begins with basic principles such as information systems data compression and error detection before moving on to more advanced topics such as Pulse Code Modulation systems and digital microwave systems Data protocols are also given so that the reader can gain a good understanding of more complex communication systems Analogue and Digital Communication Techniques has been designed for students studying HND electronic communication courses but will also be useful to junior undergraduates on similar courses Some knowledge of basic electronics is assumed

Advance Communication Lab Manual Dr. Preeta Sharan, 2009

Introduction to Analog and Digital Circuits Lab Manual Brian DEAN, 2018-08-13

Analog and Digital Communication Systems Martin S.

Roden, 1979 Analog Communications Kasturi Vasudevan, 2020-08-14 This textbook covers the fundamental concepts of

analog communications with a Q A approach It is a comprehensive compilation of numerical problems and solutions covering all the topics in analog communications Richly illustrated with figures this book covers the important topics of signals and systems random variables and random processes amplitude modulation frequency modulation pulse code modulation and noise in analog modulation It has numerical questions and their solutions clearing the concepts of Fourier transform Hilbert transform modulation synchronization signal to noise ratio analysis and many more All the solutions have step by step approach for easy understanding This book will be of great interest to the students of electronics and electrical communications engineering

Analog Electronics in a Digital Setting Gerald E. Williams,1988-01-01 **Analog and Digital Communication Systems** Martin S. Roden,1985 **Analog And Digital Communication Systems 3Rd Ed.** Roden,Roden Martin S,1994 *Solutions Manual for Modern Digital and Analog Communication Systems Fourth Edit* B. P. Lathi,2009-03-08 Analog and Digital Communication William David Gregg,1977 **Digital and Analog Communication Systems** K. Sam Shanmugan,1979 Provides a detailed unified treatment of theoretical and practical aspects of digital and analog communication systems with emphasis on digital communication systems Integrates theory keeping theoretical details to a minimum with over 60 practical worked examples illustrating real life methods Emphasizes deriving design equations that relate performance of functional blocks to design parameters Illustrates how to trade off between power band width and equipment complexity while maintaining an acceptable quality of performance Material is modularized so that appropriate portions can be selected to teach several different courses Includes over 300 problems and an annotated bibliography in each chapter

Web Based Real Time Laboratory Applications of Analog and Digital Communication Courses with LabVIEW Access Aynur Akar,2011 Web Based Real Time Laboratory Applications of Analog and Digital Communication Courses with LabVIEW Access *Instructor's Manual to Accompany An Introduction to Analog and Digital Communications* Simon S. Haykin,1989

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