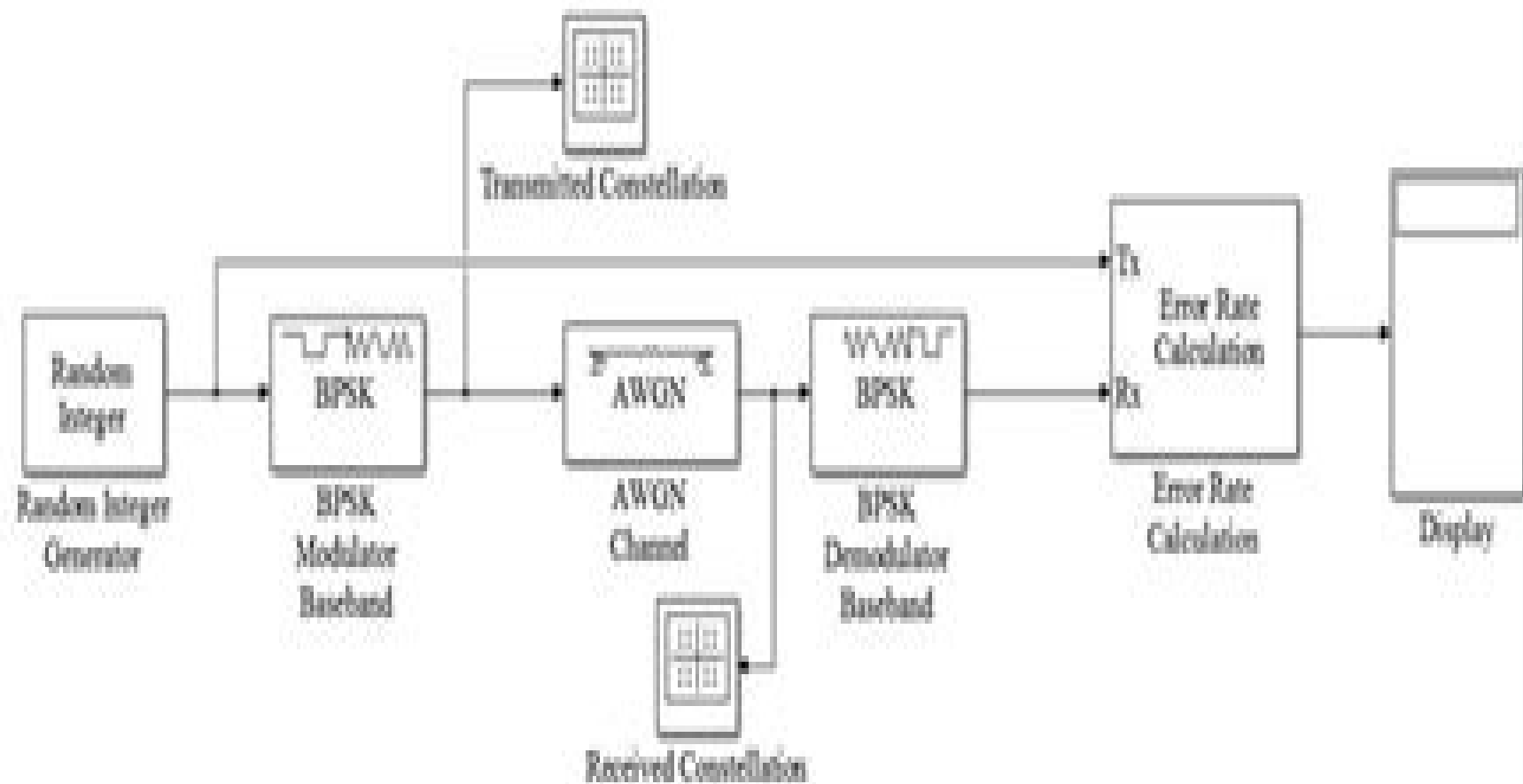




Digital Communication Lab Manual Using Matlab Bpsk

E.S. Gopi



Digital Communication Lab Manual Using Matlab Bpsk:

Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09 LAB PRIMER THROUGH MATLAB® NAVAS, K. A., JAYADEVAN, R., 2014-02-19 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of digital signal processing digital image processing digital signal processor and digital communication through MATLAB in a single volume A step wise discussion of the programming procedure using MATLAB has been carried out in this book The numerous programming examples for each digital signal processing lab image processing lab signal processor lab and digital communication lab have also been included The book begins with an introductory chapter on MATLAB which will be very useful for a beginner The concepts are explained with the aid of screenshots Then it moves on to discuss the fundamental aspects in digital signal processing through MATLAB with a special emphasis given to the design of digital filters FIR and IIR Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB functions At the end of this book some basic experiments using DSP trainer kit have also been included Audience This book is intended for the undergraduate students of electronics and communication engineering electronics and instrumentation engineering and instrumentation and control engineering for their laboratory courses in digital signal processing image processing and digital communication Key Features Includes about 115 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives systematic way of doing experiments such as Aim Theory Programs Sample inputs and outputs Viva voce questions and Examination questions MATLAB/Simulink for Digital Communication Won Y. Yang, 2018-03-02 Chapter 1 Fourier Analysis 1 1 1 CONTINUOUS TIME FOURIER SERIES CTFS 2 1 2 PROPERTIES OF CTFS 6 1 2 1 Time Shifting Property 6 1 2 2 Frequency Shifting Property 6 1 2 3 Modulation Property 6 1 3 CONTINUOUS TIME FOURIER TRANSFORM CTFT 7 1 4 PROPERTIES OF CTFT 13 1 4 1 Linearity 13 1 4 2 Conjugate Symmetry 13 1 4 3 Real Translation Time Shifting and Complex Translation Frequency Shifting 14 1 4 4 Real Convolution and Correlation 14 1 4 5 Complex Convolution Modulation Windowing 14 1 4 6 Duality 17 1 4 7 Parseval Relation Power Theorem 18 1 5 DISCRETE TIME FOURIER TRANSFORM DTFT 18 1 6 DISCRETE TIME FOURIER SERIES DFS DFT 19 1 7 SAMPLING THEOREM 21 1 7 1 Relationship between CTFS and DFS 21 1 7 2 Relationship between CTFT and DTFT 27 1 7 3 Sampling Theorem 27 1 8 POWER ENERGY AND CORRELATION 29 1 9 LOWPASS EQUIVALENT OF BANDPASS SIGNALS 30 Chapter 2 PROBABILITY AND RANDOM PROCESSES 39 2 1 PROBABILITY 39 2 1 1 Definition of Probability 39 2 1 2 Joint Probability and Conditional Probability 40 2 1 3 Probability Distribution Density Function 41 2 1 4 Joint Probability Density Function 41 2 1 5 Conditional Probability Density Function 41 2 1 6 Independence 41 2 1 7 Function of a Random Variable 42 2 1 8 Expectation Covariance and Correlation 43 2 1 9 Conditional Expectation 47 2 1 10 Central Limit Theorem Normal Convergence Theorem 47 2 1 11 Random Processes 49 2 1 12 Stationary Processes and Ergodic Processes 51 2 1 13 Power Spectral Density PSD 53 2 1 14

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 Systems Using MATLAB and Simulink Kwonhue Choi,Huaping Liu,2016-01-13 Designed to help teach and understand
 communication systems using a classroom tested active learning approach Discusses communication concepts and
 algorithms which are explained using simulation projects accompanied by MATLAB and Simulink Provides step by step code
 exercises and instructions to implement execution sequences Includes a companion website that has MATLAB and Simulink
 model samples and templates password matlab *Digital Signal Processing Laboratory Experiments using MATLAB* Hardik
 Modi,2014-03-24 Technical Report from the year 2014 in the subject Computer Science Technical Computer Science
 language English abstract This is Laboratory Manual of Digital Signal Processing All experiments are performed on MATLAB
 e g List of Experiments 1 To represent basic signals like Unit Impulse Ramp Unit Step Exponential 2 To generate discrete
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 imaginary part 4 To determine impulse and step response of two vectors using MATLAB 5 To perform convolution between
 two vectors using MATLAB 6 To perform cross correlation between two vectors using MATLAB **Advance
 Communication Lab Manual** Dr. Preeta Sharan,2009 *Digital Modulations Using Matlab* Varsha
 Srinivasan,Mathuranathan Viswanathan,2019-05-30 This paperback is a color edition Link to the black white edition <https://www.amazon.com/gp/product/152149388X> Digital Modulations using Matlab is a learner friendly practical and example
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 use any of the inbuilt communication toolbox functions and hence provide an opportunity for an engineer to understand the
 basic implementation aspects of modeling various building blocks of a digital modulation system It presents the following key
 topics with required theoretical background along with the implementation details in the form of Matlab scripts Basics of
 signal processing essential for implementing digital modulation techniques generation of test signals interpreting FFT results
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Salehi,1998 This text contains a large number of MATLAB based problems dealing with topics covered in a first course in communication systems Each chapter contains fundamental concepts briefly reviewed and presents illustration problems using MATLAB Each chapter contains a list of MATLAB files used MATLAB/Simulink for Digital Communication ,2009

Digital Signal Processing for Wireless Communication using Matlab E.S. Gopi,2015-08-10 This book examines signal processing techniques used in wireless communication illustrated by using the Matlab program The author discusses these techniques as they relate to Doppler spread Delay spread Rayleigh and Rician channel modeling rake receiver diversity techniques MIMO and OFDM based transmission techniques and array signal processing Related topics such as detection theory Link budget Multiple access techniques spread spectrum are also covered Illustrates signal processing techniques involved in wireless communication Discusses multiple access techniques such as Frequency division multiple access Time division multiple access and Code division multiple access Covers band pass modulation techniques such as Binary phase shift keying Differential phase shift keying Quadrature phase shift keying Binary frequency shift keying Minimum shift keying and Gaussian minimum shift keying

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