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QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

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Quadrature Phase Shift Keying (QPSK) is a type of digital modulation technique that encodes data by using four distinct phase values (0°, 90°, 180°, and 270°). Each phase represents a unique combination of two bits, allowing for efficient transmission of data. The modulation process involves multiplying the input data by a carrier wave and then summing the results to produce the modulated signal.

The demodulation process involves extracting the original data from the received signal. This is typically done by using a matched filter to extract the signal components and then using a decision circuit to determine the transmitted bits.

$$S_1 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } '1'$$

$$S_2 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } '0'$$

$$S_3 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } '1'$$

Mathematically, the received signal $r(t)$ is the sum of the transmitted signal $s(t)$ and the noise $n(t)$. The demodulation process involves extracting the signal components and then using a decision circuit to determine the transmitted bits. The decision circuit is typically implemented using a matched filter and a decision threshold.

Matlab Code For Bpsk Modulation

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Matlab Code For Bpsk Modulation:

A Practical Guide to Error-control Coding Using Matlab Yuan Jiang, 2010 This practical resource provides you with a comprehensive understanding of error control coding an essential and widely applied area in modern digital communications The goal of error control coding is to encode information in such a way that even if the channel or storage medium introduces errors the receiver can correct the errors and recover the original transmitted information This book includes the most useful modern and classic codes including block Reed Solomon convolutional turbo and LDPC codes You find clear guidance on code construction decoding algorithms and error correcting performances Moreover this unique book introduces computer simulations integrally to help you master key concepts Including a companion DVD with MATLAB programs and supported with over 540 equations this hands on reference provides you with an in depth treatment of a wide range of practical implementation issues Optical Wireless Communications Z. Ghassemlooy, W. Popoola, S.

Rajbhandari, 2019-04-30 The 2nd Edition of Optical Wireless Communications System and Channel Modelling with MATLAB with additional new materials is a self contained volume that provides a concise and comprehensive coverage of the theory and technology of optical wireless communication systems OWC The delivery method makes the book appropriate for students studying at undergraduate and graduate levels as well as researchers and professional engineers working in the field of OWC The book gives a detailed description of OWC focusing mainly on the infrared and visible bands for indoor and outdoor applications A major attraction of the book is the inclusion of Matlab codes and simulations results as well as experimental test beds for free space optics and visible light communication systems This valuable resource will aid the readers in understanding the concept carrying out extensive analysis simulations implementation and evaluation of OWC links This 2nd edition is structured into nine compact chapters that cover the main aspects of OWC systems History current state of the art and challenges Fundamental principles Optical source and detector and noise sources Modulation equalization diversity techniques Channel models and system performance analysis Visible light communications Terrestrial free space optics communications Relay based free space optics communications Matlab codes A number of Matlab based simulation codes are included in this 2nd edition to assist the readers in mastering the subject and most importantly to encourage them to write their own simulation codes and enhance their knowledge **Channel Coding Techniques for**

Wireless Communications K. Deurgha Rao, 2019-11-22 This book discusses the latest channel coding techniques MIMO systems and 5G channel coding evolution It provides a comprehensive overview of channel coding covering modern techniques such as turbo codes low density parity check LDPC codes space time coding polar codes LT codes and Raptor codes as well as the traditional codes such as cyclic codes BCH RS codes and convolutional codes It also explores MIMO communications which is an effective method for high speed or high reliability wireless communications It also examines the evolution of 5G channel coding techniques Each of the 13 chapters features numerous illustrative examples for easy

understanding of the coding techniques and MATLAB based programs are integrated in the text to enhance readers grasp of the underlying theories Further PC based MATLAB m files for illustrative examples are included for students and researchers involved in advanced and current concepts of coding theory *Wireless Communication Signals* Huseyin Arslan,2021-03-29

WIRELESS COMMUNICATION SIGNALS A practical guide to wireless communication systems and concepts Wireless technologies and services have evolved significantly over the last couple of decades and *Wireless Communication Signals* offers an important guide to the most recent advances in wireless communication systems and concepts grounded in a practical and laboratory perspective Written by a noted expert on the topic the book provides the information needed to model simulate test and analyze wireless system and wireless circuits using modern instrumentation and computer aided design software Designed as a practical resource the book provides a clear understanding of the basic theory software simulation hardware test and modeling system component testing software and hardware interactions and co simulations This important book Provides organic and harmonized coverage of wireless communication systems Covers a range of systems from radio hardware to digital baseband signal processing Presents information on testing and measurement of wireless communication systems and subsystems Includes MATLAB file codes Written for professionals in the communications industry technical managers and researchers in both academia and industry *Wireless Communication Signals* introduces wireless communication systems and concepts from both a practical and laboratory perspective

Network Modeling, Simulation and Analysis in MATLAB Dac-Nhuong Le,Abhishek Kumar Pandey,Sairam Tadepalli,Pramod Singh Rathore,Jyotir Moy Chatterjee,2019-08-13 The purpose of this book is first to study MATLAB programming concepts then the basic concepts of modeling and simulation analysis particularly focus on digital communication simulation The book will cover the topics practically to describe network routing simulation using MATLAB tool It will cover the dimensions like Wireless network and WSN simulation using MATLAB then depict the modeling and simulation of vehicles power network in detail along with considering different case studies Key features of the book include Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in **NETWORK SIMULATION** Elaborates practice questions and simulations in MATLAB Student friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments Based on the Latest technologies coverage of wireless simulation and WSN concepts and implementations

Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSPs Thad B. Welch,Cameron H.G. Wright,Michael G. Morrow,2016-12-19 This updated edition gives readers hands on experience in real time DSP using a practical step by step framework that also incorporates demonstrations exercises and problems coupled with brief overviews of applicable theory and MATLAB applications Organized in three sections that cover enduring fundamentals and present practical projects and invaluable appendices this new edition provides support for the most recent and powerful of the

inexpensive DSP development boards currently available from Texas Instruments the OMAP L138 LCDK It includes two new real time DSP projects as well as three new appendices an introduction to the Code Generation tools available with MATLAB a guide on how to turn the LCDK into a portable battery operated device and a comparison of the three DSP boards directly supported by this edition Ophthalmology Current and Future Developments Vol. - 1 Mr. Rohit Manglik,2024-07-30 The first volume introduces emerging trends research findings and potential future practices in ophthalmology for clinicians and researchers DISTRIBUTED SPACE TIME CODES - DOUBLING CONSTRUCTION B. Tulasi Sowjanya, **Global Trends in Computing and Communication Systems** P. Venkata Krishna,M. Rajasekhara Babu,Ezendu Ariwa,2012-08-08 This two volume set CCIS 0269 CCIS 0270 constitutes the refereed post conference proceedings of the International Conference on Global Trends in Computing and Communication ObCom 2011 held in Vellore India in December 2011 The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions The conference addresses all current issues associated with computing communication and information The proceedings consists of invited papers dealing with the review of performance models of computer and communication systems and contributed papers that feature topics such as networking cloud computing fuzzy logic mobile communication image processing navigation systems biometrics and Web services covering literally all the vital areas of the computing domains Computing Science, Communication and Security Nirbhay Chaubey,Noor Zaman Jhanjhi,Sabu M. Thampi,Satyen Parikh,Kiran Amin,2024-12-18 This book constitutes the refereed proceedings of the 5th International Conference on Computing Science Communication and Security COMS2 2024 held in Mehsana Gujarat India during February 6 7 2024 The 28 full papers and 03 short papers presented in this volume were carefully reviewed and selected from 290 submissions They are grouped into the following topics experiences ideas and research results on aspects of Computing Science Network Communication and Security

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