

1. Introduction



Fig. 1. Magnitude Spectrum

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

By: [Adnan](#)



Fig. 2. Time Domain Waveforms

Quadrature Phase Shift Keying (QPSK) is a type of digital modulation technique that encodes data by using four different phase shifts (0°, 90°, 180°, and 270°). Each phase shift represents a unique combination of two bits (00, 01, 10, and 11). This allows for efficient transmission of data over a single channel.

The principle of QPSK is based on the following mathematical representation:

$$S_0 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } 00$$

$$S_1 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } 01$$

$$S_2 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } 10$$

$$S_3 = -\sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } 11$$

Mathematically, the received signal $r(t)$ is the sum of the transmitted signal $s(t)$ and the noise $n(t)$. By using [MATLAB](#), we can simulate the QPSK modulation and demodulation process.

Matlab Code For Bpsk Modulation

Srija Unnikrishnan, Sunil Surve, Deepak Bhoir



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

Channel Coding Techniques for Wireless Communications K. Deerga 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

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

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

DISTRIBUTED SPACE TIME CODES - DOUBLING CONSTRUCTION B. Tulasi Sowjanya, *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

Network Modeling, Simulation and Analysis in MATLAB Dac-Nhuong Le, Abhishek Kumar Pandey, Sairam Tadepalli, Pramod Singh Rathore, Jyotir Moy Chatterjee, 2019-08-06 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

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

Advances in IoT and Security with Computational Intelligence Anurag Mishra, Deepak Gupta, Girija Chetty, 2023-09-21 The book is a collection of peer reviewed best selected research papers presented at the International Conference on Advances in IoT and Security with AI ICAISA 2023 organized by Deen Dayal Upadhyaya College University of Delhi New Delhi India in collaboration with University of Canberra Canberra Australia and NIT Arunachal Pradesh Itanagar AP India during March 24 25 2023 The book includes various applications and technologies in this specialized sector of Industry 4.0 The book is divided into two volumes It focuses on recent advances in Internet of Things and security with its applications using artificial intelligence

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

Understanding Satellite Navigation Rajat Acharya, 2014-08-19 This book explains the basic principles of satellite navigation technology with the bare minimum of mathematics and without complex equations It helps you to conceptualize the underlying theory from first principles building up your knowledge gradually using practical demonstrations and worked examples A full range of MATLAB simulations is used to visualize concepts and solve problems allowing you to see what happens to signals and systems with different configurations Implementation and applications are discussed along with some special topics such as

Kalman Filter and Ionosphere With this book you will learn How a satellite navigation system works How to improve your efficiency when working with a satellite navigation system How to use MATLAB for simulation helping to visualize concepts Various possible implementation approaches for the technology The most significant applications of satellite navigation systems Teaches the fundamentals of satellite navigation systems using MATLAB as a visualization and problem solving tool Worked out numerical problems are provided to aid practical understanding On line support provides MATLAB scripts for simulation exercises and MATLAB based solutions standard algorithms and PowerPoint slides Modeling of Digital Communication Systems Using SIMULINK Arthur A. Giordano, Allen H. Levesque, 2015-03-03 A comprehensive and detailed treatment of the program SIMULINK that focuses on SIMULINK for simulations in Digital and Wireless Communications Modeling of Digital Communication Systems Using SIMULINK introduces the reader to SIMULINK an extension of the widely used MATLAB modeling tool and the use of SIMULINK in modeling and simulating digital communication systems including wireless communication systems Readers will learn to model a wide selection of digital communications techniques and evaluate their performance for many important channel conditions Modeling of Digital Communication Systems Using SIMULINK is organized in two parts The first addresses Simulink models of digital communications systems using various modulation coding channel conditions and receiver processing techniques The second part provides a collection of examples including speech coding interference cancellation spread spectrum adaptive signal processing Kalman filtering and modulation and coding techniques currently implemented in mobile wireless systems Covers case examples progressing from basic to complex Provides applications for mobile communications satellite communications and fixed wireless systems that reveal the power of SIMULINK modeling Includes access to useable SIMULINK simulations online All models in the text have been updated to R2018a only problem sets require updating to the latest release by the user Covering both the use of SIMULINK in digital communications and the complex aspects of wireless communication systems Modeling of Digital Communication Systems Using SIMULINK is a great resource for both practicing engineers and students with MATLAB experience

International Conference on Information Technology and Communication Systems Gherabi Noreddine, Janusz Kacprzyk, 2017-12-01 This book reports on advanced methods and theories in two related fields of research Information Technology and Communication Systems It provides professors scientists PhD students and engineers with a readily available guide to various approaches in Engineering Science The book is divided into two major sections the first of which covers Information Technology topics including E Learning E Government egov Data Mining Text Mining Ontologies Semantic Similarity Databases Multimedia Information Processing and Applications The second section addresses Communication Systems topics including Systems Wireless and Network Computing Software Security and Monitoring Modern Antennas and Smart Grids The book gathers contributions presented at the International Conference on Information Technology and Communication Systems ITCS 2017 held at the National School of Applied Sciences of Khouribga Hassan 1st

University Morocco on March 28 29 2017 This event was organized with the objective of bringing together researchers developers and practitioners from academia and industry working in all areas of Information Technology and Communication Systems It not only highlights new methods but also promotes collaborations between different communities working on related topics **Advances in Computing, Communication, and Control** Srija Unnikrishnan, Sunil Surve, Deepak Bhoir, 2013-01-11 This book constitutes the refereed proceedings of the Third International Conference on Advances in Computing Communication and Control ICAC3 2013 held in Mumbai India in January 2013 The 69 papers presented in this volume were carefully reviewed and selected for inclusion in the book They deal with topics such as image processing artificial intelligence robotics wireless communications data warehousing and mining and are organized in topical sections named computing communication control and others **Digital Communication** Mr. Rohit Manglik, 2024-06-20 Digital signal systems are analyzed Guides students to understand communication protocols fostering expertise in communication technology through practical simulations and theoretical study **Intelligent Computing, Networking, and Informatics** Durga Prasad Mohapatra, Srikanta Patnaik, 2013-12-17 This book is composed of the Proceedings of the International Conference on Advanced Computing Networking and Informatics ICACNI 2013 held at Central Institute of Technology Raipur Chhattisgarh India during June 14 16 2013 The book records current research articles in the domain of computing networking and informatics The book presents original research articles case studies as well as review articles in the said field of study with emphasis on their implementation and practical application Researchers academicians practitioners and industry policy makers around the globe have contributed towards formation of this book with their valuable research submissions *Cooperative Communications and Networking* K. J. Ray Liu, 2009 Presents the fundamentals of cooperative communications and networking with a holistic approach to principal topics where improvements can be obtained *Coding for MIMO Communication Systems* Tolga M. Duman, Ali Ghayeb, 2008-03-11 Coding for MIMO Communication Systems is a comprehensive introduction and overview to the various emerging coding techniques developed for MIMO communication systems The basics of wireless communications and fundamental issues of MIMO channel capacity are introduced and the space time block and trellis coding techniques are covered in detail Other signaling schemes for MIMO channels are also considered including spatial multiplexing concatenated coding and iterative decoding for MIMO systems and space time coding for non coherent MIMO channels Practical issues including channel correlation channel estimation and antenna selection are also explored with problems at the end of each chapter to clarify many important topics A comprehensive book on coding for MIMO techniques covering main strategies Theories and practical issues on MIMO communications are examined in detail Easy to follow and accessible for both beginners and experienced practitioners in the field References at the end of each chapter for further reading Can be used with ease as a research book or a textbook on a graduate or advanced undergraduate level course This book is aimed at advanced undergraduate and postgraduate students researchers

and practitioners in industry as well as individuals working for government military science and technology institutions who would like to learn more about coding for MIMO communication systems **Advances in Computing, Communication, Automation and Biomedical Technology** M. G. Sumithra ,Arulmurugan Ramu ,Chow Chee Onn,2020-12-30 Advances in Computing Communication Automation and Biomedical Technology aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation

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