

```

%bpsk modulation and demodulation
clear all;
close all;
%number of bits
Noit=1e5;
%Generate 1 and 0s
x=round(rand(1,Noit));
%find indices of zeros
zero_ind=find(x==0);
%Set all zero values of x to -1
x(zero_ind)=-1;

%generate a waveform
T=0.002; % symbol duration in sec
f0=1e3; %in KHz
t=0:1/(100*f0):T; %time window, the duration
between two samples is 1/(100*f0)
%Plot symbol waveform
s=cos(2*pi*f0*t);
plot(t,s)

%Plot BPSK modulated signal for first five bits
%Initialize total time and symbol waveform
corresponding to five bits
tn=[];
sn=[];
for mn=1:4,
    twin=(mn-1)*T+0:1/(100*f0):mn*T; %time
widow for each bit
    tn=[tn,twin]; %total time for three bits
    sn=[sn, x(mn)*cos(2*pi*f0*twin)]; %total
waveform for three bits
end
figure(1);
plot(tn,sn, 'LineWidth',2); %Plot BPSK
modulated signal
xlabel('time');
ylabel('BPSK modulated signal');

```

# Matlab Code For Bpsk Modulation

**Cam Nguyen**



## **Matlab Code For Bpsk Modulation:**

*Wireless Communication Signals* Huseyin Arslan, 2021-05-04 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

**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

**Modeling of Digital Communication Systems Using SIMULINK** Arthur A. Giordano, Allen H. Levesque, 2015-03-31 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

**Intelligent Systems Design and Applications** Ajith Abraham, Vincenzo Piuri, Niketa Gandhi, Patrick Siarry, Arturas Kaklauskas, Ana Madureira, 2021-06-02 This book highlights recent research on intelligent systems and nature inspired computing It presents 130 selected papers from the 19th International Conference on Intelligent Systems Design and Applications ISDA 2020 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 40 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering

**Proceedings of the 3rd International Conference on Sensing, Measurement, Communication and Internet of Things Technologies** Peiquan Jin, Zhenyu Zhao, 2025-09-30 This book showcases the latest advancements in Sensing Measurement Communication and Internet of Things IoT technologies This comprehensive collection includes invited contributions and extended research papers that have been presented and discussed on a global scale The proceedings aim to provide a broad perspective featuring robust discussions and in depth studies They cater to a diverse audience of academic researchers industry experts innovative thinkers scholars professionals and technologists from around the world who are actively engaged in the fields of sensing technologies measurement methodologies communication systems and the Internet of Things

Proceedings, the Irish Signals and Systems Conference 2004 Sakir Sezer, Sean McLoone, Dr. Uwe Krüger, 2004 Over the past 12 years ISSC has been a major forum for engineers and young researchers in Ireland on communications control and DSP The conference has established itself as one of the premier conferences in Ireland addressing all aspects of signals and systems including design implementation algorithms modelling and performance This conference continued this tradition under the auspices of the IEE and for the first time the ISSC conference proceedings are published by the IEE and indexed by INSPEC

**MILCOM '97** IEEE Communications Society, 1997 This text covers the

1997 Milcom conference which provides technical data on the systems supporting communications operations It includes such topics as architecture and protocols laser communications information and dissemination satellite communications and SATCOM technology     Research Reports: 1996 NASA/ASEE Summer Faculty Fellowship Program ,1996     **TIA IS-95**  
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**Subsurface and Surface Sensing Technologies and Applications III** Cam Nguyen,2001     IRF Scientific Report ,2008     *Design and Analysis of a Convolutional Encoder, Metric Generator, and Viterbi Decoder, for Use in a IS-95 CDMA System* Noah B. Henyon,1998     Proceedings of the Asia Pacific Conference on Parallel and Distributed Computing Technologies P. Venkata Krishna,S. K. V. Jayakumar,M. Rajasekhara Babu,2004 Contributed papers presented at the conference held on 13 15 December 2004 at Vellore India     **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2008  
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