

## FSK MODULATION MATLAB PROGRAMMING

```
clc;
clear all;
close all;

T=1; fc=10; fm=2.5;
t=0:T/100:1;
c=sqrt(2/T)*sin(2*pi*fc*t);
d=sqrt(2/T)*sin(2*pi*fm*t);

N=8;
m=rand(1,N);
t1=0; t2=T;

for i=1:N
    t=[t1:.01:t2]

    if m(i)>0.5
        m(i)=1;
        m_s=ones(1,length(t));
        fsk_sig(i,:)=c;
    else
        m(i)=0;
        m_s=zeros(1,length(t));
        fsk_sig(i,:)=d;
    end

    message(i,:)=m_s;
    t1=t1+(T*.01);
    t2=t2+(T*.01);
    subplot(5,1,2);
    axis([0 N -2 2]);
    plot(t,message(i,:),'r');
    title('message signal');
    xlabel('t-->');
    ylabel('m(t)');
    grid on
    hold on

    subplot(5,1,4);
    plot(t,fsk_sig(i,:));
    title('FSK SIGNAL');
    xlabel('t-->');
    ylabel('s(t)');
    grid on
    hold on
end
```

# Matlab Code For Fsk Modulation

**Xilong Qu,Chenguang Yang**

## **Matlab Code For Fsk Modulation:**

Principles of Communications Rodger E. Ziemer, William H. Tranter, 2014-03-17 Ziemer and Tranter provide a thorough treatment of the principles of communications at the physical layer suitable for college seniors beginning graduate students and practicing engineers. This is accomplished by providing overviews of the necessary background in signal system probability and random process theory required for the analog and digital communications topics covered in the book. In addition to stressing fundamental concepts the seventh edition features sections on important areas such as spread spectrum cellular communications and orthogonal frequency division multiplexing. While the book is aimed at a two semester course more than enough material is provided for structuring courses according to students need and instructor preference.

**Information and Business Intelligence** Xilong Qu, Chenguang Yang, 2012-04-25 This two volume set CCIS 267 and CCIS 268 constitutes the refereed proceedings of the International Conference on Information and Business Intelligence IBI 2011 held in Chongqing China in December 2011. The 229 full papers presented were carefully reviewed and selected from 745 submissions. The papers address topics such as communication systems, accounting and agribusiness information, education and educational technology, manufacturing engineering, multimedia convergence, security and trust computing, business teaching and education, international business and marketing, economics and finance, and control systems and digital convergence.

*Innovations in Electronics and Communication Engineering* H. S. Saini, R. K. Singh, K. Satish Reddy, 2017-11-08 The book contains high quality papers presented in the Fifth International Conference on Innovations in Electronics and Communication Engineering ICIECE 2016 held at Guru Nanak Institutions Hyderabad India during 8 and 9 July 2016. The objective is to provide the latest developments in the field of electronics and communication engineering, specially the areas like Image Processing, Wireless Communications, Radar Signal Processing, Embedded Systems and VLSI Design. The book aims to provide an opportunity for researchers, scientists, technocrats, academicians and engineers to exchange their innovative ideas and research findings in the field of Electronics and Communication Engineering.

**Contemporary Communication Systems Using MATLAB** John G. Proakis, Masoud Salehi, 2000 This supplement to any standard communication systems text is one of the first books to successfully integrate the use of MATLAB in the study of communication systems concepts and problems. It has been developed for instructors and students who wish to make use of MATLAB as an integral part of their study. The former will find the means by which to use MATLAB as a powerful tool to motivate students and illustrate essential theory without having to customize the applications themselves; the latter will find relevant problems quickly and easily. The book includes numerous MATLAB based simulations and examples of communication systems while providing a good balance of theory and hands on computer experience. This Updated Printing revises the book and MATLAB files available for downloading from the Brooks Cole Bookware Companion Resource Center Web Site to MATLAB V5.

**Mechanical And Electronics Engineering - Proceedings Of The International**

**Conference On Icmee 2009** Venkatesh Mahadevan,Jianhong Zhou,2009-07-16 The 2009 International Conference on Mechanical and Electronics Engineering ICMEE 2009 will be held in Chennai India from 24 26 July 2009 The aim of ICMEE 2009 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research findings and development activities in mechanical and electronics engineering This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face to forge new business or research relations and to find global partners for future collaboration

### **Communication Engineering**

**Principles** Ifiok Otung,2021-01-28 For those seeking a thorough grounding in modern communication engineering principles delivered with unrivaled clarity using an engineering first approach Communication Engineering Principles 2nd Edition provides readers with comprehensive background information and instruction in the rapidly expanding and growing field of communication engineering This book is well suited as a textbook in any of the following courses of study Telecommunication Mobile Communication Satellite Communication Optical Communication Electronics Computer Systems Primarily designed as a textbook for undergraduate programs Communication Engineering Principles 2nd Edition can also be highly valuable in a variety of MSc programs Communication Engineering Principles grounds its readers in the core concepts and theory required for an in depth understanding of the subject It also covers many of the modern practical techniques used in the field Along with an overview of communication systems the book covers topics like time and frequency domains analysis of signals and systems transmission media noise in communication systems analogue and digital modulation pulse shaping and detection and many others

**Journal of Natural Sciences and Mathematics** ,2003 *Fundamentals of Signals and Systems Using the Web and MATLAB* Edward W. Kamen,Bonnie S. Heck,2000 For a Signals and Systems course in Engineering departments Developed from Professor Kamen s best selling text Introduction to Signals and Systems this forward looking text presents an accessible yet comprehensive analytical treatment of signals and systems and also incorporates a strong emphasis on solving problems and exploring concepts using MATLAB A MATLAB tutorial is provided on a disk which is available for student instructor use and all examples in the text are developed in terms of the Student Edition of MATLAB

**Simulation - Past, Present and Future** Richard Zobel,1998 *Digital Transmission Engineering* John B. Anderson,1999 This introduction to digital data transmission modulation and error correction coding together with the underlying communication and information theory is an all inclusive text suitable for all those connected with Mechanical Engineering or Computer Science Equal emphasis is given to underlying mathematical theory and engineering practice Not meant to be an encyclopedic treatise the book offers strong accessible pedagogy This Second Edition presents enhanced explanations of key ideas as well as additional examples and problems It also provides greatly expanded coverage of wireless communication which has seen exponential growth since the release of the first edition A pedagogical approach aimed at the 5th year EE student A balance of theory with engineering and design Integration of important topics such as synchronization

radio channels and wireless communication which are left out of competing books or lost in more lengthy formats

*Simulation of Ask and Fsk Modulation and Demodulation Using Matlab/simulink Application Used for Learning Tool System on Digital Modulation Technique* Marzila Musa,2005    Defence Science Journal ,2006    **Phase Locked Loops**

**6/e : Design, Simulation, and Applications** Roland Best,2007-07-23 The Definitive Introduction to Phase Locked Loops Complete with Software for Designing Wireless Circuits The Sixth Edition of Roland Best's classic Phase Locked Loops has been updated to equip you with today's definitive introduction to PLL design complete with powerful PLL design and simulation software written by the author Filled with all the latest PLL advances this celebrated sourcebook now includes new chapters on frequency synthesis CAD for PLLs mixed signal PLLs all digital PLLs and software PLLs\_plus a new collection of sample communications applications An essential tool for achieving cutting edge PLL design the Sixth Edition of Phase Locked Loops features A wealth of easy to use methods for designing phase locked loops Over 200 detailed illustrations New to this edition new chapters on frequency synthesis including fractional N PLL frequency synthesizers using sigma delta modulators CAD for PLLs mixed signal PLLs all digital PLLs and software PLLs new PLL communications applications including an overview on digital modulation techniques Inside this Updated PLL Design Guide Introduction to PLLs Mixed Signal PLL Components Mixed Signal PLL Analysis PLL Performance in the Presence of Noise Design Procedure for Mixed Signal PLLs Mixed Signal PLL Applications Higher Order Loops CAD and Simulation of Mixed Signal PLLs All Digital PLLs ADPLLs CAD and Simulation of ADPLLs The Software PLL SPLL The PLL in Communications State of the Art Commercial PLL Integrated Circuits Appendices The Pull In Process The Laplace Transform Digital Filter Basics Measuring PLL Parameters    **Proceedings** ,2002    **2002 MILCOM** ,2002    *Electrical & Electronics Abstracts* ,1997

Subsurface and Surface Sensing Technologies and Applications III Cam Nguyen,2001    **Digital and Analog Communication Systems** Leon W. Couch,2007 Now in its seventh edition this classic communication text retains the philosophy and tradition of the preceding editions The seventh edition covers the latest treatment of digital communication systems Written as a textbook for junior or senior engineering students it is also appropriate for an introductory graduate course Jacket    Index to IEEE Publications Institute of Electrical and Electronics Engineers,1996    **Simulation Tool for the Evaluation of Power Spectral Density in the Design of M-ary Frequency Shift Keyed Signals** L. Elizabeth Gao,1998

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