

Signals Spectra and Signal Processing

Laboratory Exercise 4

Signal Systems

Reference: DSP LAB by Sanjit k. Mitra

Objective

Plot signal sequence of different systems
Understand the operations in signal systems

Material

MATLAB r2020a or any version

Procedures

17. Run the matlab application and open an Editor (ctrl + N)
18. This is for a moving average filter system, composed of sum of several sinusoidal signals.

Write the following scripts. This will generate and plot an AM signal

```
%%% PART 1
% Moving Average System
% Simulation of an M-point Moving Average Filter
% Generate the input signal
n = 0:100;
s1 = cos(2*pi*0.05*n); % A low frequency sinusoid
s2 = cos(2*pi*0.47*n); % A high frequency sinusoid
x = s1+s2;
% Implementation of the moving average filter
M = input('Desired length of the filter = ');
num = ones(1,M);
y = filter(num,1,x)/M;
% Display the input and output signals
clf;
subplot(2,2,1);
plot(n,s1);
axis([0, 100, -2, 2]);
xlabel('Time index n'); ylabel('Amplitude');
title('Signal # 1');
```

Dsp Sanjit Mitra Lab Manual

B. S. Kesavan



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Digital Signal Processing Sanjeev Sharma, 2025-06-01 *Embedded Systems and Wireless Technology* Raul A. Santos, Arthur Edwards Block, 2012-06-22 The potential of embedded systems ranges from the simplicity of sharing digital media to the coordination of a variety of complex joint actions carried out between collections of networked devices The book explores the emerging use of embedded systems and wireless technologies from theoretical and practical applications and their applications in a SIGNALS and SYSTEMS Using MATHCAD: Signal Processing and Analysis with Mathcad Volvick Deroose, Andrew Veronis, 2025-08-24 This book is geared toward students and professionals who need to learn Mathcad and use it to solve problems The book is very easy to follow and it includes steps by steps tutorials While students can use the book to solve textbook problems engineers can also use it to solve real problems Each chapter includes exercises and possible solutions For engineering applications the book also includes examples for using Mathcad with MATLAB and National Instruments Data Acquisition cards **Proceedings** ,1999 **Phase-locked Loops & Their Application** William C. Lindsey, Marvin Kenneth Simon, 1978 **Towards 2000** Lawrence P. Grayson, 1992 The Indian National Bibliography B. S. Kesavan, 2006 **Indian National Bibliography** B. S. Kesavan, 2006 **Stability of Large Electric Power Systems** Richard T. Byerly, Edward Wilson Kimbark, 1974 Prepared under the sponsorship of the IEEE Power Engineering Society Scientific and Technical Books and Serials in Print ,1984 **Systems Engineering** Andrew P. Sage, 1977 Addresses some fundamental considerations associated with the engineering of large scale systems The first part deals with systems methodology design and management including a detailed examination of operational and task level system quality assurance through configuration management audits and reviews standards and systems integration The second part discusses a variety of systems design and management approaches particularly those concerned with system effectiveness evaluation and the human role in systems Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 **American Book Publishing Record** ,2002 *Book Review Index* ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index *Forthcoming Books* Rose Army, 1996-10 *Subject Guide to Books in Print* ,1983 **Confiabilidade Eletrônica** Durval Sanches, 2014-07-04 Este trabalho objetiva ampliar os conhecimentos na rea de Confiabilidade Eletr nica ramo da Engenharia de pouca dissemina o nas reas acad micas e profissionais no Brasil Estas informa es permitir o uma vis o hol stica do comportamento de sistemas eletr nico tanto do ponto de vista do usu rio da manuten o e do projeto Aborda se os problemas e as solu es relativas a an lise da confiabilidade dos sistemas eletr nicos como selecionar componentes eletr nicos a import ncia e os cuidados da produ o de tais sistemas no pa s Os conhecimentos s o fornecidos deforma direta de modo que o usu rio encontre r pido e precisamente o que necessita Recomenda se que se leia primeiro o livro Componentes Eletr nicos de minha autoria antes deste livro de modo a propiciar maior entendimentos dos par metros envolvidos na especifica o para defini o da confiabilidades dos mesmos Integrated Injection Logic James Edwin Smith, 1980 Engineering Education

,1986 **Interferência Eletromagnética Emi** Durval Sanches,2010-06-17 O conjunto das informações apresentadas objetiva ampliar os conhecimentos na área de Projetos em Eletrônica pois aborda ramos da Engenharia de pouca disseminação nas áreas acadêmicas no Brasil. Estas informações permitirão uma visão holística do comportamento de sistemas eletrônicos tanto do ponto de vista do usuário da manutenção e do projeto. Cada parte deste trabalho aborda os problemas e as soluções relativas à interferência eletromagnética, as vantagens da análise da confiabilidade dos sistemas eletrônicos como selecionar componentes eletrônicos, o processo de nacionalização de sistemas eletrônicos pela importação e pelos cuidados da produção de tais sistemas no país.

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Stress concentration factors for the tension of a thin semi-infinite element with a circular hole near the edge (Mindlin 1948; Udoguti 1947; Isida ... Table A-15 Charts of Theoretical Stress-Concentration ... by A Figure · Cited by 4 — Source: R. E. Peterson, Stress-. Concentration Factors, Wiley,. New York, 1974, pp. 146, 235. The nominal bending stress is $\sigma_0 = M/Z_{net}$ where Z_{net} is a reduced. Peterson's Stress Concentration Factors, Third Edition Dec 13, 2023 — Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and ...

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