

**DSP** : 001  
Student's name : .....  
Student's ID : .....

**Subject** : Digital Signal Processing (DSP)  
**Course ID** : 0101000144 **Credits** : 03  
**Time allowed** : 120' **Level** : Undergraduate  
**Dean of Dept.** : .....  
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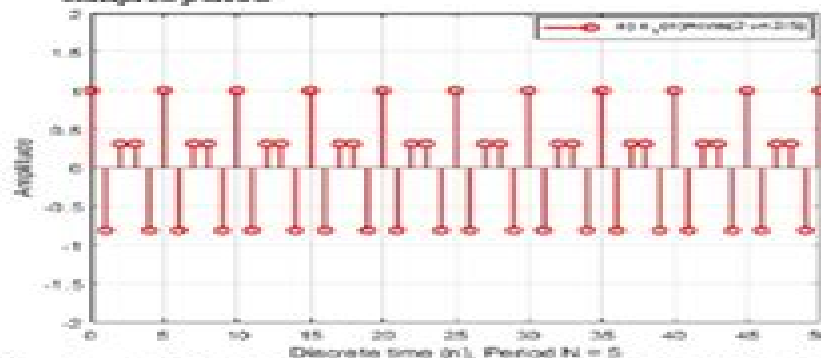
*Note: The exam has 01 page, materials are permitted, using Matlab to plot/check gets 0.5 bonus marks for each problem; and copying answers from each other is invalid*

**P01 (2.5 marks):** Consider the analog signal  $x_a(t) = x_1(t) + x_2(t) + x_3(t) = \cos(480\pi t) + 2\cos(560\pi t) + 3\cos(640\pi t)$  sampled at  $F_s = 600\text{Hz}$ .

- Determine the fundamental period of the sampled signal  $x_s(n)$ ? (0.5)
- Determine the Nyquist sampling rate for  $x_a(t)$  and the folding frequency. (0.5)
- Is there any alias frequencies in the sampled signal  $x_s(n)$ , why? (0.75)
- If  $x_s(n)$  is passed through an ideal D/A converter, what is the reconstructed signal  $y_a(t)$ ? (0.75)

**Solution:**

- $x_s(n) = \cos(480\pi n/F_s) = \cos(480\pi n/600) = \cos(2\pi n/5) \rightarrow f = 1/5 = k/N \rightarrow$  the fundamental period  $N = 5$  samples/period.



- $F_N = 2 \times \text{Max}(F_1, F_2, F_3) = 2 \times \text{Max}(240\text{Hz}, 280\text{Hz}, 320\text{Hz}) = 2 \times 320\text{Hz} = 640\text{Hz}$   
The folding frequency is  $F_{\text{fold}} = F_s/2 = 300\text{Hz}$
- Because  $F_3 = 320\text{Hz} > F_{\text{fold}} = F_s/2 = 300\text{Hz}$ ,  $F_3$  is an alias frequency of  $F^*$  such that  $F_3 = F^* + kF_s$ ,  
 $\Leftrightarrow 320 = F^* + k \times 600 \rightarrow F^* = (-)280\text{Hz} = F_3$ , for  $k = 1$ .

- The sampled  $x_s(n)$  of  $x_a(t)$  is given by

$$\begin{aligned} x_s(n) &= \cos\left(\frac{2\pi n F_1}{F_s}\right) + 2\cos\left(\frac{2\pi n F_2}{F_s}\right) + 3\cos\left(\frac{2\pi n F_3}{F_s}\right) = \cos\left(\frac{2\pi n \cdot 240}{600}\right) + 2\cos\left(\frac{2\pi n \cdot 280}{600}\right) + 3\cos\left(\frac{2\pi n \cdot 320}{600}\right) \\ &= \cos\left(\frac{4\pi n}{5}\right) + 2\cos\left(\frac{14\pi n}{15}\right) + 3\cos\left(\frac{16\pi n}{15}\right) = \cos\left(\frac{4\pi n}{5}\right) + 2\cos\left(\frac{14\pi n}{15}\right) + 3\cos\left(\frac{16\pi n}{15}\right) \\ &= \cos\left(\frac{4\pi n}{5}\right) + 2\cos\left(\frac{14\pi n}{15}\right) + 3\cos\left(\frac{14\pi n}{15}\right) = \cos\left(\frac{4\pi n}{5}\right) + 5\cos\left(\frac{14\pi n}{15}\right) \end{aligned}$$

So, there are two frequencies  $w_1 = 4\pi/5$  &  $w_2 = 14\pi/15$   
Because  $F_1$  &  $F_2$  are sampled,  $y_a(t) = \cos\left(\frac{4\pi}{5}t\right) + 5\cos\left(\frac{14\pi}{15}t\right)$

# Digital Signal Processing Midterm 1 Solution

**United States Air Force Academy**



## **Digital Signal Processing Midterm 1 Solution:**

*New Digital Signal Processing Methods* Raoul R. Nigmatullin, Paolo Lino, Guido Maione, 2020-05-23 This book is intended as a manual on modern advanced statistical methods for signal processing The objectives of signal processing are the analysis synthesis and modification of signals measured from different natural phenomena including engineering applications as well Often the measured signals are affected by noise distortion and incompleteness and this makes it difficult to extract significant signal information The main topic of the book is the extraction of significant information from measured data with the aim of reducing the data size while keeping the basic information knowledge about the peculiarities and properties of the analyzed system to this aim advanced and recently developed methods in signal analysis and treatment are introduced and described in depth More in details the book covers the following new advanced topics and the corresponding algorithms including detailed descriptions and discussions the Eigen Coordinates ECs method The statistics of the fractional moments The quantitative universal label QUL and the universal distribution function for the relative fluctuations UDFRF the generalized Prony spectrum the Non orthogonal Amplitude Frequency Analysis of the Smoothed Signals NAFASS the discrete geometrical invariants DGI serving as the common platform for quantitative comparison of different random functions Although advanced topics are discussed in signal analysis each subject is introduced gradually with the use of only the necessary mathematics and avoiding unnecessary abstractions Each chapter presents testing and verification examples on real data for each proposed method In comparison with other books here it is adopted a more practical approach with numerous real case studies

**Digital Signal Processing** Winser Alexander, Cranos M Williams, 2016-11-14 Digital signal processing DSP has been applied to a very wide range of applications This includes voice processing image processing digital communications the transfer of data over the internet image and data compression etc Engineers who develop DSP applications today and in the future will need to address many implementation issues including mapping algorithms to computational structures computational efficiency power dissipation the effects of finite precision arithmetic throughput and hardware implementation It is not practical to cover all of these in a single text However this text emphasizes the practical implementation of DSP algorithms as well as the fundamental theories and analytical procedures that form the basis for modern DSP applications Digital Signal Processing Principles Algorithms and System Design provides an introduction to the principals of digital signal processing along with a balanced analytical and practical treatment of algorithms and applications for digital signal processing It is intended to serve as a suitable text for a one semester junior or senior level undergraduate course It is also intended for use in a following one semester first year graduate level course in digital signal processing It may also be used as a reference by professionals involved in the design of embedded computer systems application specific integrated circuits or special purpose computer systems for digital signal processing multimedia communications or image processing Covers fundamental theories and analytical procedures that form the basis of modern DSP Shows practical

implementation of DSP in software and hardware Includes Matlab for design and implementation of signal processing algorithms and related discrete time systems Bridges the gap between reference texts and the knowledge needed to implement DSP applications in software or hardware      Digital Signal Processing Thomas Holton,2021-02-18 A comprehensive and mathematically accessible introduction to digital signal processing covering theory advanced topics and applications      *TNPSC Exam PDF-Tamilnadu Combined Technical Services Exam-Manager (Electrical) Exam-Electrical Engineering Subject Practice Sets eBook* Chandresh Agrawal,Nandini Books,2025-09-10 SGN The TNPSC Exam PDF Tamilnadu Combined Technical Services Exam Manager Electrical Exam Electrical Engineering Subject Practice Sets eBook Covers Objective Questions With Answers      *Digital Signal Processing: Instant Access* James D. Broesch,2008-11-25 Digital signal processing is commonplace in most electronics including MP3 players HDTVs and phones just to name a few of the applications The engineers creating these devices are in need of essential information at a moment s notice The Instant Access Series provides all the critical content that a signal or communications engineer needs in his or her daily work This book provides an introduction to DSPs as well as succinct overviews of linear systems digital filters and digital compression This book is filled with images figures tables and easy to find tips and tricks for the engineer that needs material fast to complete projects to deadline Tips and tricks feature that will help engineers get info fast and move on to the next issue Easily searchable content complete with tabs chapter table of contents bulleted lists and boxed features Just the essentials no need to page through material not needed for the current project      *Introduction to Digital Signal Processing and Filter Design* B. A. Shenoi,2005-10-24 A practical and accessible guide to understanding digital signal processing Introduction to Digital Signal Processing and Filter Design was developed and fine tuned from the author s twenty five years of experience teaching classes in digital signal processing Following a step by step approach students and professionals quickly master the fundamental concepts and applications of discrete time signals and systems as well as the synthesis of these systems to meet specifications in the time and frequency domains Striking the right balance between mathematical derivations and theory the book features Discrete time signals and systems Linear difference equations Solutions by recursive algorithms Convolution Time and frequency domain analysis Discrete Fourier series Design of FIR and IIR filters Practical methods for hardware implementation A unique feature of this book is a complete chapter on the use of a MATLAB r tool known as the FDA Filter Design and Analysis tool to investigate the effect of finite word length and different formats of quantization different realization structures and different methods for filter design This chapter contains material of practical importance that is not found in many books used in academic courses It introduces students in digital signal processing to what they need to know to design digital systems using DSP chips currently available from industry With its unique classroom tested approach Introduction to Digital Signal Processing and Filter Design is the ideal text for students in electrical and electronic engineering computer science and applied mathematics and an accessible introduction or refresher for engineers and

scientists in the field      **DSP-Based Testing of Analog and Mixed-Signal Circuits** Matthew Mahoney,1987-05-11  
Answers the commonly asked questions about how digital signal processing based machines work and what role DSP plays in the process It shows you how DSP performs in real test situations and uses mathematical concepts rather than derivations The text addresses difficult test problems and their solutions resulting from the union of automatic test equipment ATE and DSP The author establishes a philosophy of DSP based testing describing how to think how to approach a problem how to create a solution and how to determine if it really works properly      *TNPSC AE Exam PDF - Assistant Engineer (Electrical) Exam PDF eBook-Tamilnadu Combined Technical Services Exam-Electrical Engineering Subject Practice Sets* Chandresh Agrawal,Nandini Books,2025-09-07 SGN The TNPSC Assistant Engineer Electrical Exam PDF eBook Tamilnadu Combined Technical Services Exam Electrical Engineering Subject Practice Sets Covers Objective Questions With Answers      [Ham Radio For Dummies](#) H. Ward Silver,2011-02-25 It s time we cleared the air about ham radio If you think of it as staticky transmissions sent by people in the middle of nowhere think again Today s ham radio goes beyond wireless to extreme wireless Operators transmit data and pictures use the Internet laser and microwave transmitters and travel to places high and low to make contact In an emergency or natural disaster ham radio can replace downed traditional communication and save lives Whether you re just getting turned on to ham radio or already have your license Ham Radio for Dummies helps you with the terminology the technology and the talknology You discover how to Decipher the jargon and speak the language Buy or upgrade your equipment including the all important antennas Build a ham radio shack complete with the rig a computer mobile base rig microphones keys headphones antennas cables and feedlines Study for your license master Morse code take the test and get your call sign Understand the basics of ragchews conversations nets organized on air meetings and DX ing competing in contacts to make contacts Keeping logs with the vital statistics including time in UTC or World Time frequency and call sign Written by Ward Silver an electrical engineer Certified Amateur Radio License Examiner and columnist for QST a monthly magazine for ham operators Ham Radio for Dummies gives you the info you need to delve into the science or dive into the conversation It explains how you can Tune in to the most common types of signals including Morse Code CW single sideband SSB FM Radioteletype RTTY and data signals Break in introduce yourself converse and say or signal goodbye Communicate while traveling ham radio goes where mobile phones go dead Register with an emergency organization such as ARES and RACES Help in emergencies such as earthquakes wildfires or severe weather Pursue your special interests including contacting distant stations participating in contests exploring the digital modes using satellites transmitting images and more Complete with a glossary and ten pages of additional suggested resources Ham Radio for Dummies encourages you to touch that dial and take that mike CUL That s Morse Code for see you later      *TNPSC Exam PDF-Tamilnadu Combined Engineering Services Examination Assistant Engineer (Electrical) Exam: Electrical Engineering Subject Ebook-PDF* Chandresh Agrawal,nandini books,2025-09-14 SGN The Ebook TNPSC Tamilnadu Combined Engineering Services

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**BESSEL PROBLEM** L.A. Osipov,2014-01-03 The survey formulas of linear regression envelope of complex discrete signals with irregular intervals are received The method application in discrete continuous systems of automatic control is shown

*Technological Developments in Education and Automation* Magued Iskander,Vikram Kapila,Mohammad A.

Karim,2010-01-30 Technological Developments in Education and Automation includes set of rigorously reviewed world class

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BARC Computer Science (CS/IT) Exam Prep Book | 10 Full-length Mock Tests (1000+ Solved Questions) EduGorilla Prep Experts,2022-08-03 Best Selling Book for BARC Computer Science CS IT Exam with objective type questions as per the latest syllabus given by the Bhabha Atomic Research Centre Compare your performance with other students using Smart Answer Sheets in EduGorilla s BARC Computer Science CS IT Exam Practice Kit BARC Computer Science CS IT Exam Preparation Kit comes with 10 Full length Mock Tests with the best quality content Increase your chances of selection by 14X BARC Computer Science CS IT Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts      *Annual Catalogue* United States Air Force Academy,1984

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## **Table of Contents Digital Signal Processing Midterm 1 Solution**

1. Understanding the eBook Digital Signal Processing Midterm 1 Solution
  - The Rise of Digital Reading Digital Signal Processing Midterm 1 Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Signal Processing Midterm 1 Solution
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Digital Signal Processing Midterm 1 Solution
  - User-Friendly Interface



4. Exploring eBook Recommendations from Digital Signal Processing Midterm 1 Solution
  - Personalized Recommendations
  - Digital Signal Processing Midterm 1 Solution User Reviews and Ratings
  - Digital Signal Processing Midterm 1 Solution and Bestseller Lists
5. Accessing Digital Signal Processing Midterm 1 Solution Free and Paid eBooks
  - Digital Signal Processing Midterm 1 Solution Public Domain eBooks
  - Digital Signal Processing Midterm 1 Solution eBook Subscription Services
  - Digital Signal Processing Midterm 1 Solution Budget-Friendly Options
6. Navigating Digital Signal Processing Midterm 1 Solution eBook Formats
  - ePub, PDF, MOBI, and More
  - Digital Signal Processing Midterm 1 Solution Compatibility with Devices
  - Digital Signal Processing Midterm 1 Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Digital Signal Processing Midterm 1 Solution
  - Highlighting and Note-Taking Digital Signal Processing Midterm 1 Solution
  - Interactive Elements Digital Signal Processing Midterm 1 Solution
8. Staying Engaged with Digital Signal Processing Midterm 1 Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Digital Signal Processing Midterm 1 Solution
9. Balancing eBooks and Physical Books Digital Signal Processing Midterm 1 Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Digital Signal Processing Midterm 1 Solution
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Digital Signal Processing Midterm 1 Solution
  - Setting Reading Goals Digital Signal Processing Midterm 1 Solution
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Digital Signal Processing Midterm 1 Solution
  - Fact-Checking eBook Content of Digital Signal Processing Midterm 1 Solution
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web conjugal love the affection of husband and wife that should be both unitive and unless virginal procreative it is unitive for the married spouses and procreative from them as potential

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web and conjugal love are ordained for the procreation and education of children and find in them their ultimate crown thus a man and a woman who by their compact of conjugal love are no longer two but one flesh matt 19 ff render mutual help and service to each other through an intimate union of their persons and of their actions

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appended a list of theological works hitherto published by me

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web conjugal love reaches that fullness to which it is interiorly ordained conjugal charity which is the proper and specific way in which the spouses participate in and are called to live the very charity of christ who gave himself on the cross

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web conjugal love is above all fully human a compound of sense and spirit it is not then merely a question of natural instinct or emotional drive

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