

DSP : 001
Student's name :
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Subject : Digital Signal Processing (DSP)
Course ID : 0101000144 **Credits** : 03
Time allowed : 120' **Level** : Undergraduate
Dean of Dept. :
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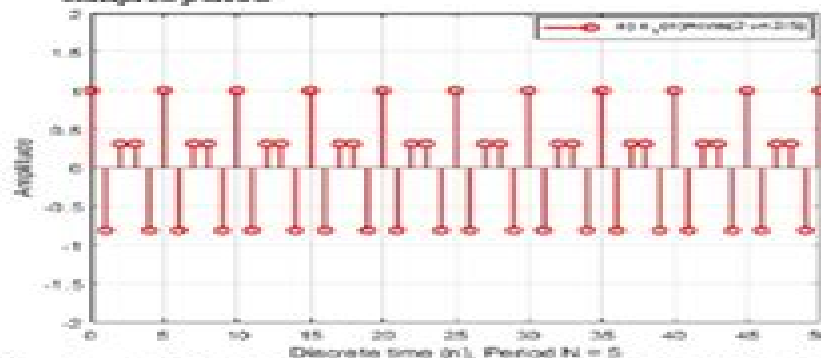
Note: The exam has 01 page, materials are permitted, using Matlab to plot/check gets 0.5 bonus marks for each problem; and copying answers from each other is invalid

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

H. Ward Silver



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

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