

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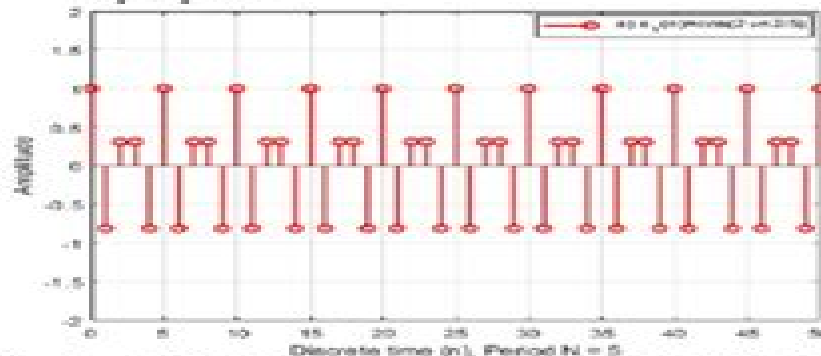
Note: The exam has 01 page, materials are permitted, using Matlab to plot/check gets 0.5 bonus marks for each problem; and copying answers from each other is invalid

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

Michael Seilmaier



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

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scientists in the field **DSP-Based Testing of Analog and Mixed-Signal Circuits** Matthew Mahoney,1987-05-11
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