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\u0026 ALIASING Scilab

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 \i"Digital Signal Processing and Image Processing using SciLab\i"||Day 1,13th

August 2018 A1- Familiarize with Scilab Assignment

Experiment 1 :Verification of sampling theorem
Signal Encoding 1: Digital Signals

How to Generate Basic Signals (Step \u0026 Impulse) in Python??
 Convert Analog to Digital signal MATLAB Audio Signal Processing in MATLAB How to Generate Digital Signal Waveform | Random Binary Sequence in Matlab ?? How to search a element in a list

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 \u0026 DECIMATION IN TIME \u0026 FREQUENCY DOMAIN DSP Familiarize

with Scilab Fara A1
 Familiarize with
 Scilab Scilab Code For
 Digital Signal Scilab code
 Solution 2.1 Z transform
 of DT sequence 1
 //Expt2:Todrawthepole
 zeroplot 2
 //O.S:Windows10; 3
 //Scilab:6.0.0 4 clear; 5
 clc; 6 //Z transformof[103
 12] 7 clear; 8 clc; 9 close;
 10
 function[za]=ztransfer(se
 quence,n) 11 z=poly(0, ' z
 ', ' r ') 12
 za=sequence*(1/z)^n' 13
 endfunction 14 x1=[1 0 3
 -1 2]; 15
 n=0:length(x1)-1; 16

zz=ztransfer(x1,n);Scilab
 Manual for Digital Signal
 Processing by Prof Akhtar
 ...Scilab code Solution 4.1
 Program to find the
 spectral information of
 dis- crete time signal 1 //
 C a p t i o n : P r o g r a m t o
 f i n d t h e s p e c t r a l i
 n f o r m a t i o n (P D F)
 Scilab Manual for Digital
 Signal Processing Scilab
 code Solution 1.1
 sinewave 1 clc; 2 clf; 3
 clearall; 4
 //Caption:generationofsine
 wave 5 f=0.2; 6
 t=0:0.1:10; 7
 x=sin(2*%pi*t*f); 8
 plot(t,x); 9 title(' sine

wave '); 10 xlabel(' t ');
 11 ylabel(' x '); Scilab
 code Solution 1.2 cosine
 wave 6 Scilab Manual for
 Digital Signal Processing
 by Ms E ...Previous
 Articles on Scilab-Based
 Digital Signal Processing.
 One of the methods used
 to encode binary data in a
 sinusoidal waveform is
 called frequency shift
 keying (FSK). It's a simple
 concept: one frequency
 represents a zero, and a
 different frequency
 represents a one. For
 example: Digital Signal
 Processing in Scilab: How
 to Decode an FSK

...Digital Signal Processing. Digital Signal Processing concepts such as convolution, correlation, DFT, FFT ... Scilab 5.5.x . Binaries available on ... Source code archive News (0) Comments (0) ↑ Leave a comment ... ATOMS : Digital Signal Processing details(h) PCM Modulation Output Signal to Noise Ratio with Bandwidth using Scilab clear all; clc; n = input('Enter the number of bits to encode: '); W = input('Enter the message signal bandwidth: '); B = n*W;

```
disp(B,'Channel Width in
Hertz: ') SNRo = 6*n - 7.2;
//SNRo = 4.8 - 6*n; //SNRo
= 1.8 + 6*n; disp(SNRo ,'
Output Signal to Noise
Ratio in dB : ') Output:
Enter the number of bits
to encode: 4 Enter the
message signal
bandwidth: 4000 Channel
Width in Hertz:
16000.Digital
Communication using
Scilab - electronics
...signal used in Digital
Signal Processing Scilab
code Solution 1.01 Basic
Discrete Signal
Generation 1 //Exp
1To generate basic discrete
```

```
signalusedin
DigitalSignalProcessing 2
3 //Version:Scilab5.4.1 4
//OperatingSystem:Windo
wsp,Window 7 5 6 clc; 7
clear; 8 xdel(winsid()); 9
t=0:0.1:20; 10 f=0.2; 11
pi=3.14; 12 13 14
/////SINEWAVE /////Scilab
Manual for Digital Signal
Processing by Dr Prarthan
...Analog and Digital
Communication. ... Signal
Processing Using Scilab.
Creation Date .
September 8, 2013 ...
demodulation 5.Amplitude
Shift keying 6.Frequency
shift keying 7.Phase shift
keying 8.Phase
```

Modulation 9.Pulse code	modulation8 Exa 2.6	and filter signals in time
Modulation 10.Uniform	carrier current and	and frequency domains.
quantization 11.logical xor	modulation of signal	Sampling. Here is the
12.Auto correlation	andScilab Textbook	example of a bad
13.Hamming Distane	Companion for Analog and	sampling of a sine signal:
14.Hamming Encoding 15	Digital ...Download Codes.	nb_pts=16; step=2e-3;
...ATOMS : Analog and	Title of the lab Download	t=step*(0:1:nb_pts-1);
Digital Communication	Lab Solutions. Download	amp=3;f=100;
details - ScilabList of	PDF of Lab Solutions.	s=amp*sin(2*%pi*f*t);
Scilab Codes Exa 2.1	About the Lab ... and	plot2d(t,s);
frequency range of	Scilab Enterprises is	plot2d3(t,s,style=color('re
sidebands.5 Exa	granted exclusive rights	d')) Fourier
2.2 Bandwidth of	for Scilab Trademark. This	TransformSignal
modulated signal.	work is licensed under a	Processing
.6 Exa 2.3 total power in	Creative Commons	www.scilab.orgFor Signal
amplitude modulated	Attribution-ShareAlike 4.0	Processing: Scilab helps
wave.7 Exa 2.4 Carrier	International License	you visualise, analyse and
Power.Download Codes	filter signals in time and
.7 Exa 2.5 antenna	Scilab.inScilab provides	frequency domains. Some
current and percentage	tools to visualize, analyze	of the capabilities include,

but are not limited to, signal generation, power spectral density estimation, digital FIR and IIR filter design and signal transforms. Home | Scilab.in Scilab . Numerical Analysis ; Data visualization ; Algorithm development ; Application development ; Xcos . Model Customization & Modelica blocks creation ; Model building & edition ; Simulation ; Standard Palettes & Blocks ; Toolboxes . Image Processing & Computer Vision ; Scilab Code Generator ; Signal

acquisition & instrument control Home Page | www.scilab.org EXAMPLE
`A=rand(3,5);`
`write('foo',A);`
`B=read('foo',3,5)`
`B=read('foo',-1,5)`
`read(%io(1),1,1,'(a)') //`
 waits for user's input SEE ALSO file, readb, write, %io, x_dialog. 1.2.2 Simulation of Random Signals. The creation of synthetic signals can be accomplished using the Scilab function rand which generates random numbers. Magnitude - Scilab A line code is the code used for data

transmission of a digital signal over a transmission line. This process of coding is chosen so as to avoid overlap and distortion of signal such as inter-symbol interference. Properties of Line Coding. Following are the properties of line coding – Digital Communication - Line Codes - Tutorialspoint EXAMPLE
`A=rand(3,5);`
`write('foo',A);`
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`B=read('foo',-1,5)`
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 waits for user's input SEE

ALSO file, readb, write, %io, x_dialog. 1.2.2 Simulation of Random Signals. The creation of synthetic signals can be accomplished using the Scilab function rand which generates random numbers. Scilab Code For Digital Signal Processing Principles Scilab is an open source, cross-platform numerical computational package and a high-level, numerically oriented programming language. As the syntax of Scilab is similar to MATLAB(R), Scilab includes a source code translator for

assisting the conversion of code from MATLAB(R) to Scilab. Scilab is available free of cost under an open source license and is one of several open source alternatives ... Course on Digital Signal Processing (DSP) & Image ... Let's say we have a system that digitizes a 6 kHz audio signal and a separate 2 kHz audio signal. The sampling frequency is 44.1 kHz, and the ADC fills a 50-sample buffer. The following sequence of Scilab commands can be used to generate values

that resemble the data produced by the actual system. Introduction to Sinusoidal Signal Processing with Scilab ... In this tutorial, Scilab is used for signal processing. The several tools needed for completing the Practice of Discrete-Time Signal Processing are described hereunder. List of Scilab Codes Exa 2.1 frequency range of sidebands.5 Exa 2.2 Bandwidth of modulated signal.6 Exa 2.3 total power in amplitude modulated wave.7 Exa 2.4 Carrier

Power.
 .7 Exa 2.5 antenna
 current and percentage
 modulation8 Exa 2.6
 carrier current and
 modulation of signal and
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 EXAMPLE A=rand(3,5);
 write('foo',A);
 B=read('foo',3,5)
 B=read('foo',-1,5)
 read(%io(1),1,1,'(a)') //
 waits for user's input SEE
 ALSO file, readb, write,
 %io, x_dialog. 1.2.2
 Simulation of Random
 Signals. The creation of
 synthetic signals can be

accomplished using the
 Scilab function randwhich
 generates random
 numbers.
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 Scilab provides tools to
 visualize, analyze and
 filter signals in time and
 frequency domains.
 Sampling. Here is the
 example of a bad
 sampling of a sine signal:
 nb_pts=16; step=2e-3;
 t=step*(0:1:nb_pts-1);
 amp=3;f=100;
 s=amp*sin(2*%pi*f*t);
 plot2d(t,s);
 plot2d3(t,s,style=color('re
 d')) Fourier Transform

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 Analog and Digital
 Communication. ... Signal
 Processing Using Scilab.
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 September 8, 2013 ...
 demodulation 5.Amplitude
 Shift keying 6.Frequency
 shift keying 7.Phase shift
 keying 8.Phase
 Modulation 9.Pulse code
 Modulation 10.Uniform
 quantization 11.logical xor
 12.Auto correlation
 13.Hamming Distane
 14.Hamming Encoding 15
 ...
[Magnitude - Scilab](#)
 signal used in Digital

Signal Processing Scilab
code Solution 1.01 Basic
Discrete Signal
Generation 1 //Exp
1To generate basic discrete
signal used in
Digital Signal Processing 2
3 //Version: Scilab 5.4.1 4
//Operating System: Windo
w xp, Window 7 5 6 clc; 7
clear; 8 xdel(winsid()); 9
t=0:0.1:20; 10 f=0.2; 11
pi=3.14; 12 13 14
/////SINEWAVE /////
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Signal Processing by Dr
Prarthan ...*
Let's say we have a
system that digitizes a 6
kHz audio signal and a

separate 2 kHz audio
signal. The sampling
frequency is 44.1 kHz,
and the ADC fills a 50-
sample buffer. The
following sequence of
Scilab commands can be
used to generate values
that resemble the data
produced by the actual
system.
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Digital Communication
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For Signal Processing:
Scilab helps you visualise,
analyse and filter signals
in time and frequency
domains. Some of the
capabilities include, but

are not limited to, signal
generation, power
spectral density
estimation, digital FIR and
IIR filter design and signal
transforms.

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N point DFT Sampling

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Assignment

Experiment 1
:Verification of sampling theorem
Signal Encoding 1: Digital Signals

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DECIMATION IN TIME FREQUENCY DOMAIN DSP

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Previous Articles on Scilab-Based Digital Signal Processing. One of the methods used to encode binary data in a sinusoidal waveform is called frequency shift keying (FSK). It's a simple concept: one frequency represents a zero, and a different frequency represents a one. For example:

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Signal

A line code is the code used for data transmission of a digital signal over a transmission line. This process of coding is chosen so as to avoid overlap and distortion of signal such as inter-symbol interference. Properties of Line Coding. Following are the properties of line coding –

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...

(h) PCM Modulation
Output Signal to Noise
Ratio with Bandwidth

using Scilab clear all; clc;
n = input('Enter the number of bits to encode: ');
W = input('Enter the message signal bandwidth: ');
B = n*W;
disp(B,'Channel Width in Hertz: ');
SNRo = 6*n - 7.2;
//SNRo = 4.8 - 6*n; //SNRo = 1.8 + 6*n; disp(SNRo, 'Output Signal to Noise Ratio in dB : ');
Output: Enter the number of bits to encode: 4 Enter the message signal bandwidth: 4000 Channel Width in Hertz: 16000.

Scilab Manual for Digital Signal Processing by Ms E ...

Scilab code Solution 2.1 Z transform of DT sequence

```
1 //Expt2:Todrawthepole
zeroplot 2
//O.S:Windows10; 3
//Scilab:6.0.0 4 clear; 5
clc; 6 //Z transformof[103
12] 7 clear; 8 clc; 9 close;
10
function[za]=ztransfer(se
quence,n) 11 z=poly(0, ' z
', ' r ') 12
za=sequence*(1/z)^n' 13
endfunction 14 x1=[1 0 3
-1 2]; 15
n=0:length(x1)-1; 16
zz=ztransfer(x1,n);
Digital Signal Processing
in Scilab: How to Decode
an FSK ...
```

Scilab code Solution 4.1 Program to find the spectral information of discrete time signal

```
1 //
C a p t i o n : P r o g r a m t o
f i n d t h e s p e c t r a l i
n f o r m a t i o n
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Signal Processing by Prof
Akhtar ...
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visualization ; Algorithm
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development ; Xcos .
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Model building & edition ;
Simulation ; Standard
Palettes & Blocks ;
```

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```
EXAMPLE A=rand(3,5);
write('foo',A);
B=read('foo',3,5)
B=read('foo',-1,5)
read(%io(1),1,1,'(a)') //
waits for user's input SEE
ALSO file, readb, write,
%io, x_dialog. 1.2.2
Simulation of Random
Signals. The creation of
synthetic signals can be
accomplished using the
```

Scilab function `randwhich` generates random numbers.

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