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By Alan V Oppenheim

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And D. G. Manolakis Title of the

Book: Digital Signal Processing:

Principle, Algorithms And

Applications Publisher: Prentice

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Prof. R. Senthilkumar, B. tech and

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Correlation 173 11 Hilbert
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Continuous Signal 1 //Experiment
1 2 //windows 7 64 Bit 3 //Scilab
6.0.1 4 5 6 //AIM:Devlopaprogram
togenerateFollowing ContinuousSi
gnala)Sinusoidal;b)Cosine;c)
Triangle;d)SquareWave. 7 8
clearall 9 clc 10 V =input(' Enter
the value of Voltage in volts : ')
//Examplev=20Volt 11 f =input('
Enter the value of frequency in
Hertz : '

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Systems by Prof Priyen S ...
SignalFrequency_1 = 6e3;
SignalFrequency_2 = 2e3;

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SamplingFrequency = 44.1e3; n
= 0:49; Signal_1 = sin(2*%pi*n / (
SamplingFrequency/SignalFreque
ncy_1)); Signal_2 = sin(2*%pi*n /
(SamplingFrequency/SignalFreque
ncy_2)); plot(n, Signal_1) plot(n,
Signal_2) Conclusion

Introduction to Sinusoidal Signal
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acquisition & instrument control ;
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discrete time signals Scilab code

Solution 1.1 Waveform generation

using DT signals 1 //Expt1.Wavefo

rmgenerationusingdiscretetime

signalsusingScilab 2

```
//O.S.Windows10 3 ////Scilab6.0.0
```

```
4 //GenerationofunitstepDiscretesi
```

```
gnal 5 clear; 6 clc; 7 t=0:4; 8
```

```
y=ones(1,5); 9 subplot(3,2,1); 10
```

```
plot2d3(t,y); 11 xlabel( 'n '); 12
```

```
ylabel( 'u(n) ');
```

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SciLab exercises from Signals &

Systems course. Contribute to

PrayagS/SciLab_Exercises

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account on GitHub.

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GitHub – Alan V Oppenheim

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Filtering of Signals. Filtering of signals by linear systems (or computing the time response of a system) is done by the function flts which has two formats . The

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first format calculates the filter output by recursion and the second format calculates the filter output by transform. //make signal and filter
[h,hm,fr]=wfir('lp',33,[.2 0],'hm',[0 0]);

Basic tools for Signal Processing |
www.scilab.org

```
18fc =input("Enter Analog cutoff  
freq . in Hz=") 19fs =input("Enter  
Analog sampling freq . in Hz=")  
20M =input("Enter order of f i l t e  
r =") 21w = (2*%pi)*(fc/fs);  
22disp(w, ' Digital cutoff  
frequency in radians . cycles /  
samples '); 23wc = w/%pi;  
24disp(wc, ' Normalized digital  
cutoff frequency in.
```

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and Image Processing by ...

which causes Scilab to execute all the Scilab commands contained in the file called file.name. To know what signal processing tools are available in Scilab one would type-->disp(siglib) which produces a list of all the signal processing functions available in the signal processing library.

1.2 Signals

Magnitude - Scilab

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 to MATLAB (R). Scilab has been

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widely exploited for different applications in signal processing, statistical analysis, image processing, fluid dynamics simulations, numerical optimization, and modeling, simulation of explicit and ...

Course on Digital Signal Processing (DSP) & Image ...

```
x = ( a ) ^ n; a = gca (); a.  
thickness = 2; a. x_location =  
"origin"; a. y_location = "origin";  
plot2d3 ( 'gnn' ,n,x) xtitle (  
'Graphical Representation of  
Exponential Decreasing Signal',  
'n', 'x...
```

(PDF) Signal Processing Basics
using Scilab (Signals and ...
How to Use Scilab to Analyze
Amplitude-Modulated RF Signals

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The frequency-domain effects of amplitude modulation are fairly straightforward: the fundamental mathematical operation in an AM system is multiplication, and multiplication causes a spectrum to shift such that it is centered on a new frequency.

How to Use Scilab to Analyze Frequency-Modulated RF Signals
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sampled can be perfectly
reconstructed

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signal processing the first point to
know is how to load and save
signals or only small portions of
lengthy signals that are to be
used or are to be generated by
Scilab Finally, the generation of

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Synthetic (random) signals is an important tool in the

Copyright code : 6e3e853608d05
2c0ec0d6fd1281ffa56