

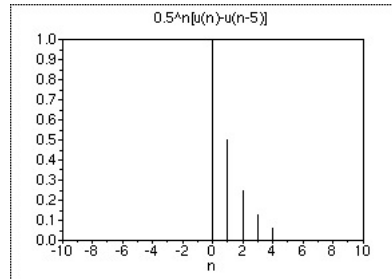
デジタル信号処理
～ レポート 1 ～

e055717 金城佑典

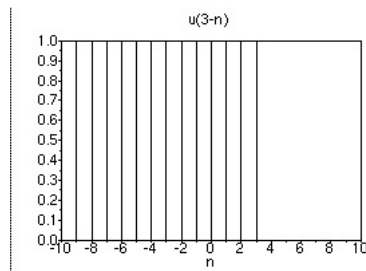
2007/5/11(木)

1 プロット

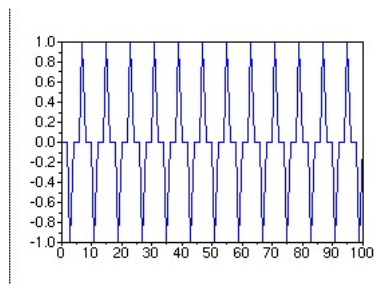
1.1 $x(n) = 0.5^n [u(n) - u(n-5)]$



1.2 $x(n) = u(3-n)$

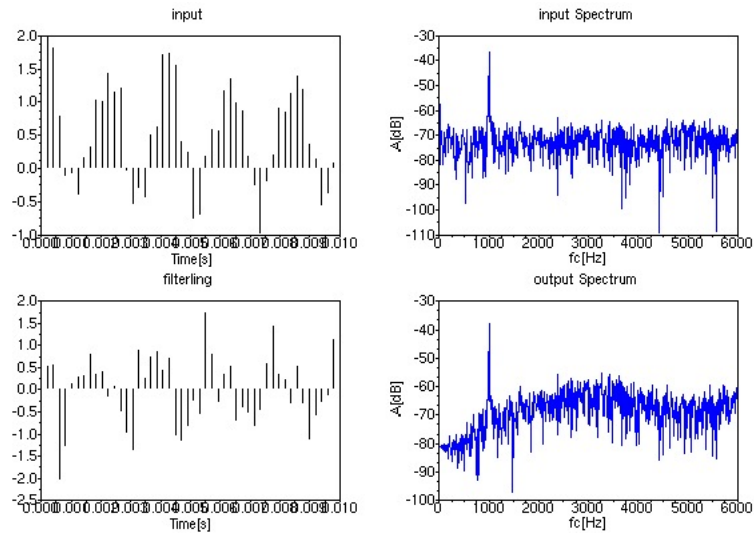


1.3 $x(n) = \cos(\pi \frac{n}{2}) * \cos(\pi \frac{n}{4})$

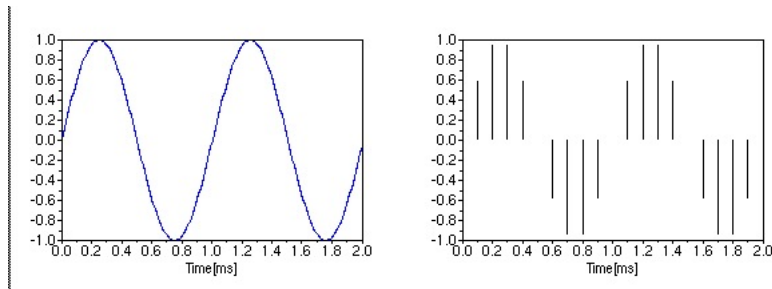


2 List

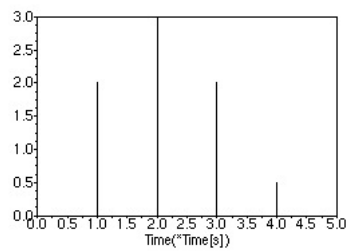
2.1 list1.1



2.2 list1.2



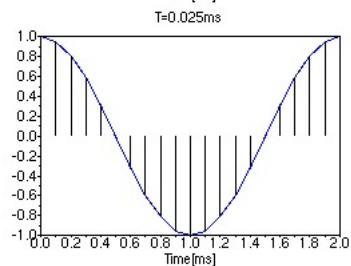
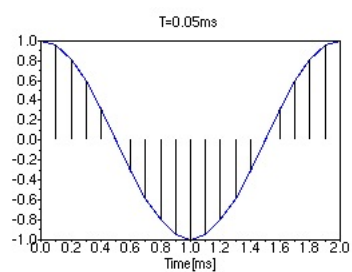
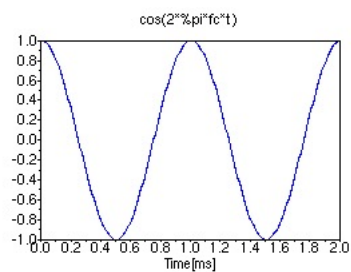
2.3 list1.3



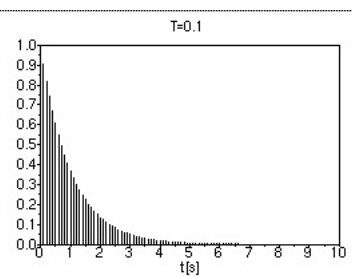
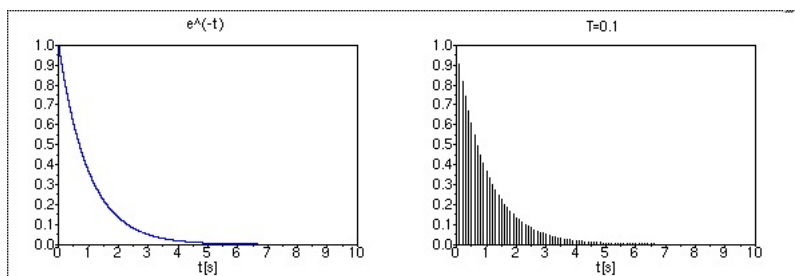
3 教科書 p13 の問題

3.1 問題 1.3

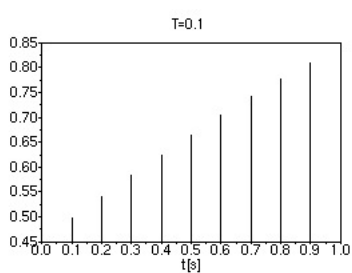
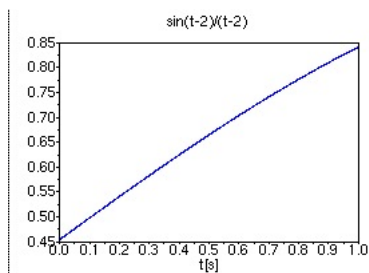
3.1.1 問題 1.3(1) と (2)



3.1.2 問題 1.3(3)



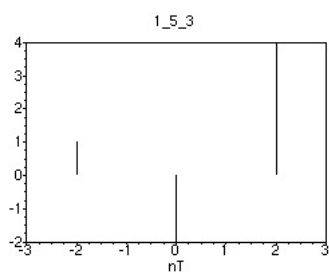
3.1.3 問題 1.3(4)



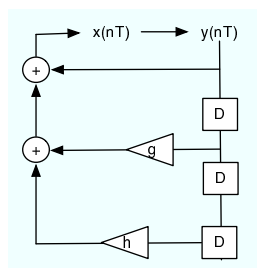
3.2 問題 1.4(b)

$$x(nT) = \delta(nT) + 0.5\delta(nT - T) - 0.5\delta(nT - 2T) - \delta(nT - 3T) \quad (1)$$

3.3 問題 1.5(3)



3.4 問題 1.7(4)



3.5 問題 1.8(a)

$$y(nT) = 2x(nT) + x(nT - T) + 0.5x(nT - 2T) + 0.1x(nT - 3T) \quad (2)$$

参考文献

[1] 例題で学ぶデジタル信号処理

金城繁徳 尾知博 コロナ社 2004/9/15

[2] Scilab 入門

<http://www.ecl.sys.hiroshima-u.ac.jp/scilab/introscilab/introscilab.html>

[3] `y=filter(A,B,x)` how?

<http://www.dsprelated.com/showmessage/37753/1.php>