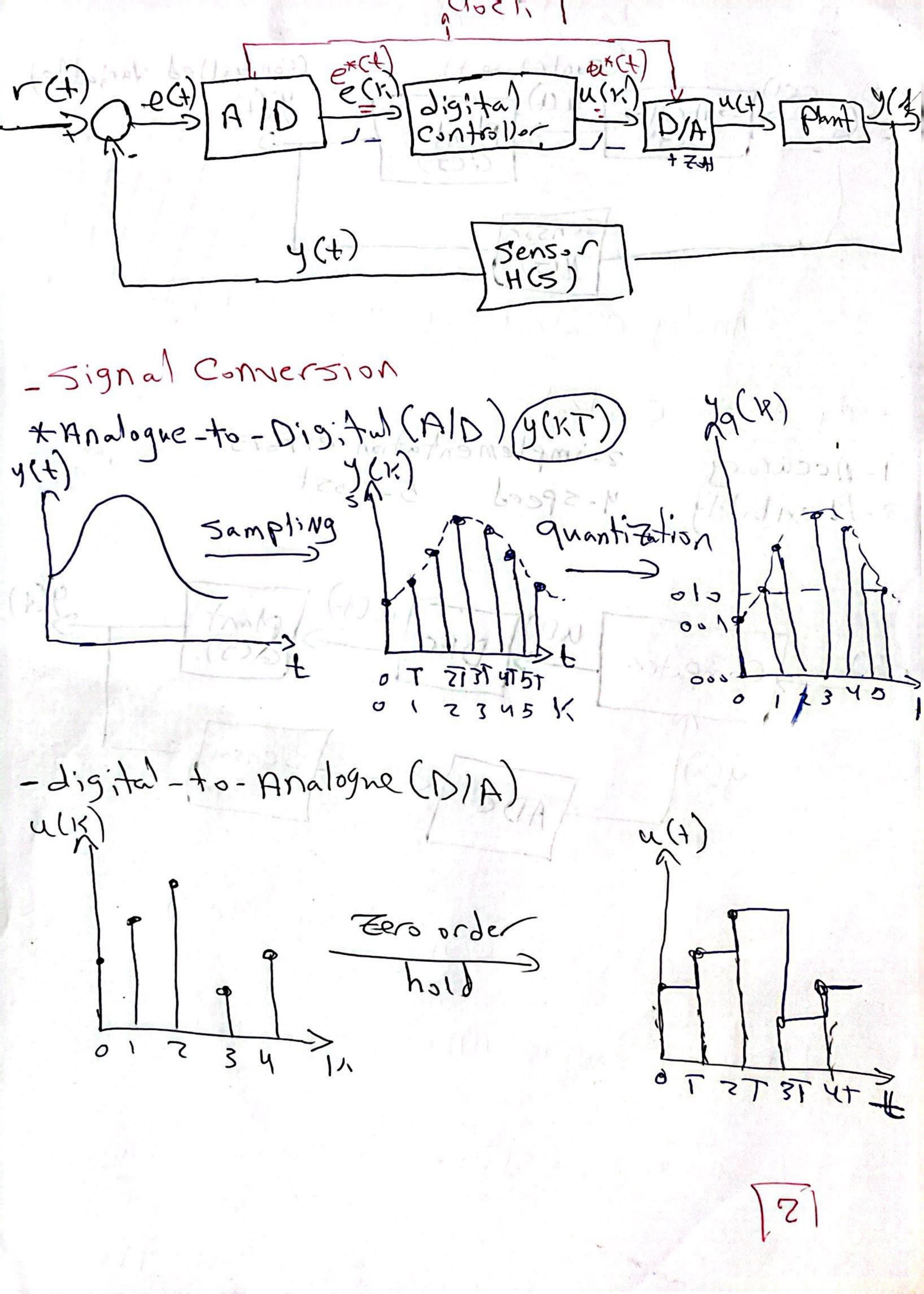


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1=y(+).8-(+)=y(+).8C+-KT) J(+) = = = = = (KT) S(+-KT) ([y\*(+)]= = x== Z{y(+)}=Z{Y(+)}= ~(NT) ~~ = 76) = + 4(1) = + 4(2) = 7 + 7(3) = 3 -y\*(+)={1,3,7,0,4,0, Y(Z)-1+3Z-1-27+4Z-4

- step function x\*(+)={1,1,--] X(5)=1+5+45=-G5 2-1 ration/= 3 \* ramp function f(+)=t X(Z) = 2X(KT) = 0+TZ-12723 =T[=+2=+3=-7 5= ar + 2ar3

以(水)= ( は べつ ) ( ) 人( ) QUUN) = 1+ a = + a = = 7 + a = = 7 Z-domain (+=) XT, La Place domain S(4) 7-e-al T-Z-1)2 Sinwt Z'Sin w/ 527w2 Z2-25 COWWIN Coswt Z(C-Z-(55WT) 52+WZ Z3-SZCO2mI+1 - properties of the Z-transform OLinearity Z { QX,(K)+BX(K)}-XX(Z)+BX(Z) 1 Time deby \*(+)=X(+-KT)=>X(2)= Z-KTX(2) 

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X(+)=X(+1)=)X(=)-ZX6) multiplication by exponentional = (a-1/x(1/1)}=x(a=)=)x(=)=x(a=) Ocomplex Translation Theorem 7 [eatp(+)]=f(z,) | = zet f(+). ex: Z(eatcosut))=Z(cosut) 77-27C05(wi)+1 == 7e = 7e = 77e Cos(wi)+1  $ex_{3}: f(4)=1-0.8e^{\frac{t}{2}}cos(25t)$   $=\sum_{c=5}^{2}(c)=\sum_{c=5}^{2}(c)=\sum_{c=7}^$ (Z)- Z - 6.8 Z (CSS(2.5t))

T 2T 34 11 P(Z) - Z-intial Value-f(0)= 1:m f(+)-1:m f(KT)= a=1 P(3)=1, N F(Z)=1, N (Z-a)=1:N-1== N Z-200 find nulue. f(00)= limf(+)- limf(rit)= 00= t f(00)= lin (2-1) F(2) - lin (2-1) Z-0

inverse of the Z-transform ETXX(Z) = [XII] -> Causal sequence ex: direc inverse Z. Transform (from table) @f(=)= 5= =>f(K)=5\*1(K)=5 (K>6) (2)=57-39(K)-5\*(-1) (K20) 3H(=)=5= -> h(K)=5\*5=5" (KZO) Qc(z)= 27 -> c(1/2)=2\*(-5) 1/1/0) {P(1)}={1.2/x} 0,57 OC(2)= 6.5 7 -27 -27 -27 -27 -27 -27 -25 ξ g(1/3)= [6.5]/1-1] ) 9(1/s) )= Sk(0.5)"}

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