

hheare genichting im ongwal bereich KI ENJO XI(ZI) ZEKI Inverse in original bereich 1 121Ca 11 10 X1(7) X2= X1[-n]0- X2= X1(=)) 1212=

& transformation S[n] = 1[n] 8Ln] - 1 Sh-110-2" XW= (=) "111 0 1-12-1 come sundang a"1(n) 0 = 2-a , 121)a verschiebung im original bereich X,6,30 € X,(2), 2€K1 16[n-4]=x20-02-4X1(2), 2EKJ habaniteit X10170-X1(2) 17 EKG Xa[n] 0- Xa(2) 12 EK2 C1N1[n]+(2x2[n] 1[n] 0-G X1(2)+(2)(2), 2+4,

BSP OF U-UB & TUJE SEN Y(2)- = 7-1 Y(2) = 1 y(2) = 1-22-1 y[n]=(1)"1 [n]

(2 py min - 0 n(n-11 - (n-(m-1)) pon-m/[n-m] (7-1) 1 n-3] 4[n]=(x+h)[n] -0 y(z) = x(z) H(z) 0-0 .. In therein Frequentyang "Wilche Frequenten blockiert? 11 1 1/x(x) = H(7) = ... ONNISTELLEN Zo. 1 1 Zo. 2 (av S Nenner) H (2) bestommen um o-seller in complexe e-form to bringer 3/20/ Anden @ arg(80.1, 20.2) Alesen mit tant () (unuel = arg) Lett sollte Nenner von HIEL Fantonsert Lin 8-Form Rin: (8-e)(4-e) Ot substitute mit 2 - ever) HIEL - HESE) Och so besommen dass takker gleichtell utte @ Das & Mcchieverde w namberonnet werden mit BDIR to blockieserale Frequent hann mit f= 27 Eusattliche Frequent & 2 blockeren: Ownhelpshu wa bevellues: Wa = 2T. fx Quilitelle hinzerigen bei ezin also zue 000= 35 Terme mit (2-e10)(7-e-10) imtermer ku H(7)

Richtennsfermaten

Eigenschaften von Signalen Definberrer. Bestlocoprenet - A. ir. wallo endlichen Bestranges 149 % great O ·Zerthant: feit best juknumer Reberteren Emsating - Dos Signal gent nur outerer seate his wend with Distret: Linden benach barren Punten weih WELLER ALLET ·Kausal-Dos signalist but the ALC ALL "Abostus Zithart. -> Zithishret - Rhouts . Again - Boschrönnt-Ale Literacles Signals Lagar unter ever should Activationes system ist tet in wenn Mathematich Yet = F(t-to), were 6>0, noth points "extremple incidend"

9(1)=F(a-t), for any soul compress, sont got int (process)

FIR = Proce Imare Propose (new Rule opping)

III = Into a Imare Again (Autophing))mit over 100 miles Englings signals area igny ist Actuat a i Whome womb dow forgoings-) grade without West ward of magnified. Karsaky System Augungswerten abhängig ist State is a strange discher fragorists address Asser Similar COSII Signale glancier Freq: hap K1 2/3 ð(t) 1 T A1 (CS(wt+d1)+A2 (OS (WE+d2)+. +AN(COSTIGN W=211F - 5(t)=A(05(Qt+x) = A'cos (We+x'), when co glaich what. Addition you cas signale wit ACOS (WE +a)= Re (Ae · LUC + A) Re (AeM exity Spentrum K(t)= Ao+ & AK (DS(WHE + PK)= A+ & 19 e 1 = e Re(21)+Re(22)= Re(21+22) tulersatt cosisin り、大学、生で、」cos(wt)= 生(e)wt+e-wt)=R(e)wt ⇒ Socion &colol/学,年で Speldorm enseichnen: (meistensfür WEET,TT]) SIN(Wt) = if tent-end= Em(eme) FL, Signal XINJ=A1005(WIN)+A2(OS(WIN)+ +A100XWIN) Try Rigolu MUSS For jectin cos im Barech [-17,17] webrend souch SINA(X)+COS2(X)=1 COSDX1=COS4X1-SUZ(X) der Hone = At Jewels wer all twit goth in Interval (me: #9) SIN (Add= 2005/2) SIN (2) (DY(0)): COS-10(1): SIC-15(1) Spatal= succentum sun suntal= + cos(a) da Favier Analyse gleiching: an= 1 Szeke mish th Abtasting & Discretiskering Theorem for > 2 Smax LABO alexantely 400 Indian feremone Kitt= (05(20176) - seremente to is Int granden ms Intervalein yetzen *tooment econstant xu1=x(1=0=0)=105(20+un)==== Souther yleichung: ts=AbostRie, is=ts"=About frequence Eau Coustre Q= 2015 ts = 20 1/5 despiel Kittl= cos(20011+), mitts=2000+12 3. Trapezen regel Mc((n-1)5) + detri+ McEn-1 → 2,00 = (05 (\$COTT/2000)·n) = (05(0.11 m) Mahirungssile Que Do = Mc (1-15) (f((n-1)15) = f(N+1[n=1]) 5'(n13) 2 41 = 5[n+1]-5[n] 2500 Rumars 1 Ever Vir was 13 Uc ((n. 1) 3) + uclos - uclos-1 Euret Her Flyst der ne DGL uc(n.73)+400 Nata 4514- Ligital udn-0 Mc (n. B)+ Mc[n] Mc (n Ts) - Mc [n] coffeet tey comon Me (1 Ts) + Mc [n+1] - Mc[n] Bluch schalt bild Frist ten, unformen liebest u[n+1]= X-AA-YCO Blockschalthid R-A-Y- 2-11-12-18 · Untersumme + Nur Stabil bei hober Abtastrate & nover Dampfung · Ober nume + Erg. Lt Stabile Stristeme jaburchampf & das Sistem · Trape curege + volle Ausnutting dostitue thereis) enatt daner schulegingen 1 troncolour (US) 5 - = 1 2. Rumartier (Over Sun) 5 - 1 35+ 35+ 15

Kap 1