

y(t) = x(t) + x(t-1) / /(jun) = x(jun) (1+e)

y(jun) = o for |un| > us/2 => Nyquist Rate = us Y(ju) = . for Im1 > un => Nyquist Rate = 2m2 X x (in) la process X(por) sel 1> X(ei-a) = 1 & Xc(j(-n-2kT)/T) > 1 X(ju) =) Xc(ju) < T = 5x1, 4 χ(in)=. for 3π < 1-1 < π -> χ(in)=. for 3π < 1ωι < π (ξ => Xc (im) = . for 1500 TT < 1ml < 2000 TT and x(cm) =. for 1ml > 2000 TT => Xc(jm)== for 1500 TC (m) Xc(ju) = Xc(i(u-2000 11)) $W(t) = Z_1(t) Z_2(t) \stackrel{FT}{\longleftarrow} W(ju) = \frac{1}{2\pi} (X_1(ju) \times X_2(ju))$ w(ju) = . for 141/2 m,+m us = 2(u,+u2) and T< TT u,+u2

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