周期信号. CFS. 7(t)= Enfreik?t Fk= + Sets Xitie-jk t PFS X[n]=豆麻ejk於n FK = Ln Z x [n] e-jk th h $\widetilde{\mathcal{G}}(t) = \widetilde{\chi}(t) * h(t)$ $\widetilde{\mathcal{G}}[n] = \widetilde{\chi}[n] * h[n]$ X(t) = E Frejknot X[n] = Z Frejknon g(t) = E FK H(kws)ejkmt ÿ[n] = Z FkH(kno, e jknon 非周期信号. Fin) = fin fit) e -jwt dt FCFT f(t)= 京 [the Finse int dow DIFT Fin = Enfine - jun Ffin] = In Jens Finse inndn. 周期4支的 Fourier 夏枝、 $\widetilde{\chi}(t) = \sum_{k=-\infty}^{\infty} F_k e^{jkm \cdot t} \longrightarrow \chi(w) = 2\pi \sum_{k=-\infty}^{\infty} F_{ik} \delta_{iw} - kw_0 \cdot \delta_{iw} \delta_{$ Laplace. 夏族.子·云夏接 F(s) = fin fitte -st dt F(2) = 2 fin] z-h 小时城着歌. X(t) *h(t) < L> X(s) H(s) RUC>(Rx NRy) XIn] * hin] < => XIZ) HIZ) RO(>(Rx NR) XIt) * hit) (FT > XIW) HIW) xin] * hin] <PTFT > Xin) Ain)

2、额城着移、 X(t)p(t) 《FT》 点 X(m)*P(m) Xin]pin] 《DIFT》 点 xin) (中pin)

3.对约. fit-to) (Fis) e-sto RF fin-ho] (=> F(Z) Z-no R= fit-to) < Fine-juto fin-no] (DTFT) Finse-jun.

4.额鸦 ejhotfiti (FT FIW-WO) ejunfiti (DTFT) FIN-U.) esotfiti CL> Fis-so) Rol=Rp+Res Zo"f[n] (→ F(Z)). RO(=|Z|R|= 5. 财城级名和美名. fities SFIS) RUC>RF of[n] = f[n] - f[n-1] € > (1-2-1) F(2). f'it) CFT jwFiw) ofin] < DTFT> (1-e-jn) Fin) かななまるず果かれ、 Sinfit dt (Fis) ROCDERPARessis] \(\fin \) \(\frac{\xi}{1-\xi^{-1}} \) \(\Re\(\right) \) \(\right) \(\right) \) \(\Re\(\right) \) \(\Re\(\right) \) [to fit) de (FT) Fim) + RFIWSIM) -tf(t) \(\tag{L} \) \(\frac{dF(s)}{ds} \) \(\text{Roc} = R_F \) -nfin] (=> = dfiz) Roc=Rf. -jtfit) CFT > dfin) -jnfin1 (PIFT) difin) 7、毅城积名. fit) + Tifin) Sies CFT > Ju Fiordo.

fit CIFT > Sh Frodo. Sh Frodo =0 find pift of Frondo Sens Frondoso

8. 尺度夏族 $X(at) \stackrel{CFT}{\longleftrightarrow} \frac{1}{|a|} \times \left(\frac{w}{a}\right)$ X(at) () Ial x(sa). aRx. 9. 帕什瓦尔定程. (+10 |X(t)|2 dt = = 1/2 |Xw|2 du == (X[n]) = = = /x (OX> /x(n)) dn. 10.纳维纳一欣钦纸 Rx(t) < CFT > Lim 1 / X27(W) 2 RX[n] (DIFT) lim 2/1 | X2N+1 (N) |2 11 23/18/42. fit) CFT giw AN git) CFT > 2rf(-w) Xin] < PFS) Fk 前Fikl.
例 Fin] < PFS) が Xi-kl.

1. fit)= e-atuit) Fis) = I Reisy>Reigh fin] = a nuin] fin7 ← → > 1 電介表車面 u(t) \(Pess) >0 3. - e - at u(-t) () (+a) Ress | c Pes-al -anui-n-1] = = 1-az-1 (2)<191 4. wowst (47) TIS(w+ws) + 8(w-wo)] Sinwot (FT) jn[SIW+Ws)-SIW-Ws)] Wow, tu(t) () show $\frac{|wt|^2}{|wt|^2} = TSa(\frac{2}{2}) \qquad Sin wo t u(t) \ll \frac{1}{2} \frac{|w|^2}{|w|^2} |e| |s|^2 > 0.$ $\gamma_{2N_1+1}[n] = \int ||n| | |n| | |n| | |m| |m$ 1. 81t) (157) 1 1 (457) 77. 88(W) 2.90°机结器.
h(t)= f 元t t +0 (47) H(w)=-jsgn(w) 3. X(t)= W Sa(wt) X(w)= [| /w/cw