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1. 考虑 f(t) 的采样:  $f(t) = f(t) \stackrel{\mathcal{L}}{\underset{k=-\infty}{\mathcal{L}}} S(t-kT)$   $= \stackrel{\mathcal{L}}{\underset{k=-\infty}{\mathcal{L}}} f(kT) S(t-kT)$ 

由于 f(t) <>> F(w), 故在叛战上的条样为:

 $\hat{F}(\omega) = \frac{1}{7} \sum_{n=-\infty}^{\infty} F(\omega - n\omega_0) , \omega_0 = \frac{1}{7} \quad \bigcirc$ 

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考虑对 0 式进行 FT ,有:  $\hat{F}(w) = \sum_{k=0}^{\infty} f(kT) \cdot P[S(t+kT)]$  =  $\sum_{k=0}^{\infty} f(kT) \cdot e^{-j\omega kT}$  ③

由于②=③= $f(\omega)$ ,故:  $Z = f(kT) \cdot e^{-j\omega kT} = \frac{1}{7} Z = f(\omega - n\omega_0)$   $\Delta = 0$   $\Delta = 0$