hw f PB21111733 牛成城

6.1 x, y 56分元速运动 $x(t) = \underbrace{at}_{T} \qquad x(t) = \underbrace{bt}_{T}$ $H(u, 0) = \begin{cases} T - j \geq \pi (ux_{0}(t) + uy_{0}(t)) \\ 0 \end{cases}$ $T = i \geq \pi (ua + ub) t$

 $= \int_{0}^{T} e^{-j2\pi \left(\frac{(u\alpha+ub)t}{T}\right)} dt$ $= -\frac{T}{-j2\pi(u\alpha+ub)} \left(e^{-j2\pi(u\alpha+ub)}-1\right)$

 $= \frac{T}{\pi(u\alpha+vb)} \sin(\pi(u\alpha+vb)) e^{-j\pi(u\alpha+vb)}$

 $6.2 \quad X_0(t) = \frac{\alpha t^2}{2}$ $H(u, \alpha) = \int_0^{t} e^{-j2\pi u X_0(t)} dt$ $CT = i\pi u \alpha t^2$

 $= \int_{0}^{T} e^{-j\pi u \alpha t^{2}} dt$

不同: 匀速运动造成的大英档, 由H(U,O)在U-V-1面上可能取塞或很小,从而使恢复结果与预期有所差距, 为加速运动不忘在(U,O)取塞 别天这样的问题.

6.3 $F(u, v) = \frac{G(u, v)}{H(u, v)}$

 $=\frac{G(u, l)}{e^{-(u^2+v^2)/2\sigma^2}}$

 $= e^{(u^2 + u^2)/20^2} G(u, u)$