

1. (A)函、N=9. 已经 | Ha(比) |
$$H(k) = |H(k)| e^{i\varphi(k)} \quad \text{ (N=2M+12)} \quad M=4$$

$$h(n) = \frac{1}{N} \left[H(v) + 2\frac{1}{N} |H(k)| (is \frac{2\pi k(n-4)}{N}) \right] \quad N=0,1,2,3,4$$

$$h(u) = \frac{1}{N} \left[H(v) + 2\frac{1}{N} |H(k)| (is \frac{2\pi k(n-4)}{N}) \right] \quad H(3) = a.4 e^{i\frac{3\pi}{4}} |H(4) = 0$$

$$|H(v) = 1 \quad |H(v) = e^{-i\frac{3\pi}{4}} \quad |H(2) = e^{-i\frac{3\pi}{4}} \quad |H(3)| = o.4 e^{i\frac{3\pi}{4}} |H(4) = 0$$

$$|H(v)| = 1 \quad |H(v)| = 1 \quad |H(2)| = |H(3)| = o.4 \quad (I-1(u)) = 0$$

$$h(n) = \frac{1}{9} \left[H(2) \left[\frac{2\pi (n-4)}{q} + c.4 \left(\frac{6\pi (n-4)}{q} \right) \right] \quad N=0,1,\cdots,8$$

4. TR的建築的、 WE fL=15WHz, fH=SUWHz, fs=8WHz, N=5.
WL= ITI fLK= 實可, WH=實可 : Hd(W)= } 1 實金W≤實可, gn≤w≤實可, lone h(H-n)是全能,可以例

Hu Ho=0, H1=1. H2=0, H3=4 H4=1 h(n)= ました Hx (は[形k(n-m)] = まのは(n-1) h= 0~4.

也能用 h(n):-h(4-n).配外带通、 h(n)= 元 Hk Sh(景k(M-n))= 音 Sh(景(2-n)) n= 4.4.

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