

$$\mathcal{S}(n) \longrightarrow h (n) \longrightarrow f(n)$$

$$\mathcal{S}(n) = \chi_{(n)} *h_{(n)} = \sum_{k=0}^{\infty} h_{(n)} \chi_{(n-k)}$$

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(5) PXX(W) = Exx(2)/2=eow

GAT (m)

① 对称 ② \ 科对前线元毒和等 ③ R为非负定

() PANCO) 最长为正姜久 ( BANCO) = mx + 6x )

⑤ 6mm/为实数

PXX(W)

③ 2元为国其月 ①非灸 ②实偶测数

相关意积定理

Vina

Exs (k) = 20 hopt (m) Exx(k-m)

2. 维纳滤波(四)

(1) Exy(Z)= 6w2 B(Z) B(Z-1)

3 Jam= 6 2 5 62Ck)

JW= Ecenj= 6d2-2PTW+WTRW

R= E[8cn &T(n)], P= E[8cn dcn)]

3. 纤纳: 虑i皮 (壬) (羽题) (加 sfv, s5v 种碱)

4. 因果外的预测值.(N步) CV=0) don= Scn+N)

(2) Hopt (2) =  $\frac{1}{6w^2 B(2)} \left[ \frac{\mathbb{E}_{XS}(2)}{B(2)} \cdot \mathbb{E}^{N} \right] = \frac{1}{B(2)} \left[ \frac{\mathbb{E}^{N}}{B(2)} B(2) \right] +$ 

3 Eler min = 2 = 1 & [ I ss(2) - Hop(2) · I ss(2)] 2-1 d2

①  $\Phi_{1/2} = \Phi_{1/2} = \Phi_$ 

2 Hopt (2) = 62 B(2) [ B(2) ] ] + BP (Hopt = \(\overline{\pi\_{10}(2)}{\sigma\_{10}(2)}\) #BP

(4) apk = -h(k-1) (P片子系:下!) (Ynle-walker为维)



k7,0

benta) Hen)

 $J_{min} = 6d^2 - P^T Wopt = 6d^2 - W_{opt}^T P$   $Wopt = R^T P \Longrightarrow P = R \cdot Wopt$ 

(tæ)

Bay the the  $\mp$  % % Yule-walker  $\begin{bmatrix}
\underline{F}_{MC0} & \underline{\Phi}_{MC1} & \underline{\Phi}_{MC1} \\
\underline{F}_{MC0} & \underline{\Phi}_{MC1} & \underline{\Phi}_{MC1}
\end{bmatrix}
\begin{bmatrix}
1 \\
\alpha \rho_{1} \\
-\underline{\Phi}_{MC1} & \underline{\Phi}_{MC1}
\end{bmatrix}
\begin{bmatrix}
1 \\
\alpha \rho_{2} \\
-\underline{\Phi}_{MC1}
\end{bmatrix}
\begin{bmatrix}
1 \\
0 \\
-\underline{\Phi}_{MC1}
\end{bmatrix}$ 

$$W(n)$$
 一)  $h(n)$  —  $h(n)$