$\frac{H(j\omega)}{R_{x}(1)} = h_{x} \stackrel{!}{h} * R_{x}(2) , \quad H_{y} = H(fo) \stackrel{!}{fo}$ $\frac{H(j\omega)}{R_{x}(1)} = h_{x} \stackrel{!}{h} * R_{x}(2) , \quad H_{y} = H(fo) \stackrel{!}{fo}$ $\frac{H(j\omega)}{R_{x}(1)} = h_{x} \stackrel{!}{h} * R_{x}(2) , \quad H_{y} = H(fo) \stackrel{!}{fo}$ $\frac{H(j\omega)}{R_{x}(1)} = h_{x} \stackrel{!}{h} * R_{x}(2) , \quad H_{y} = H(fo) \stackrel{!}{fo}$ $\frac{H(j\omega)}{R_{x}(1)} = h_{x} \stackrel{!}{h} * R_{x}(2) , \quad H_{y} = H(fo) \stackrel{!}{fo} = h_{x} \stackrel{!}{h} = h$

$$\chi(\omega)$$
 ju + $\alpha \chi(\omega) = b \omega(\omega)$
 $\chi(\omega)$ f ju + α) = $b \omega(\omega) \Rightarrow \omega(\omega) = \chi(\omega) \frac{(j\omega + \alpha)}{b}$

$$S_{xx}(z) = F \left(R_{xx}(z) \right) = \frac{4}{1+w^2} F \left(R_{xx}(z) \right) = 1 = S_{xx}(z)$$

$$S_{\infty}(z) = S_{\omega}(z) |H(\omega)| \Rightarrow H(\omega) = 4$$

$$1+\omega^{2}$$

2

$$H(\omega) H^{\times}(\omega) = \frac{b}{a+j\omega} \times \frac{b}{a-j\omega} = \frac{b^2}{a^2+\omega^2} = \frac{4}{1+\omega^2}$$

$$\frac{a^2-1}{b^2-4} = \frac{a-\pm 1}{b-\pm 2}$$