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## -. 1. x 2. x 3. √ 4. x 5. √

二、1. 反证,老程以平稳过程。则 mxT=E[Xku] \$RxT(t)=Rxtu,tu)从不同时满足, \$各东政程序的.

2. 
$$\Delta fe = \frac{1}{2\pi} \frac{\int_{0}^{\infty} F_{Y}(w) dw}{F_{Y}(w)} = \frac{\int_{0}^{\infty} F_{Y}(fd)}{F_{Y}(fd)} = \frac{\int_{0}^{\infty} |u(jf)|^{2} df}{|H(jfd)|^{2}}$$
  
相关时间To与Afe成反比。

3. 高斯过程足二阶矩过程,其特性验由均值和协,为差决定. FM以其狭义平约与9义平约5份。

显然,上对中安转移概率可由-岁转移概率任定切-科的程林得. 故联合分布到由其初始分布和-多转移概率超点定.

$$\leq$$
 . [  $E[Zk] = E[X] \sin t + E[Y] \cos t = 0$   
 $R_{Z}k_{1},t_{2} = E[(X \sin t + Y \cos t)(X \sin t_{2} + Y \cos t)] = \cos k_{1}-t_{2})$ 

2. : 
$$E[X^3] = E[Y^3] = \frac{1}{2}$$

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$$R_{z(z)} = R_{x(z)} * h(z) * h(z) * h(z) = [u(z) - u(z-1)] * [u(-z) - u(-z-1)]$$

:. 
$$SYZ(W) = SY(W) \cdot H_2(-jW) = SY(W) \cdot [TS(W) - \frac{1}{jW}] = \frac{2(\omega SWT - 1)}{JW}$$

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- ti. 1. Sxxxw) = Sxw. Higw Higw.
  - 2. · XHD及靴沿高白噪声.
    - : Mx41=0.
    - :  $C_{Y_1Y_1}(z) = R_{Y_1Y_1}(z) = J(z) * h_1 k_1) * h_1(-7) = h_1 k_2 * h_2(-7)$   $C_{Y_1}(z) = R_{Y_1}(z) = J(z) * h_1(z) * h_1(-7) = h_1(z) * h_1(-7)$   $C_{Y_2}(z) = R_{Y_1}(z) = J(z) * h_1(z) * h_2(-7) = h_1(z) * h_2(-7).$

$$\therefore \ \ \gamma = \frac{C_{Y_1Y_1}(\tau)}{\sqrt{C_{Y_1}(0)}\sqrt{C_{Y_2}(0)}} = \frac{h_1(\tau) + h_2(-\tau)}{\sqrt{\frac{1}{100}h_1^2(+1)dt} \int_{-\infty}^{+\infty}h_1^2v_2dt} = 0.5.$$

- t. 1.  $E[Nk] = \lambda t$ .  $k_{\mu}(t_{i}, t_{i}) = \lambda^{2} t_{i} t_{i} + \lambda \min\{t_{i}, t_{i}\}$ .
  - 2. 不足,: E[HH]]= Xt 台财间有关.
  - 3. :  $\frac{\partial \hat{R}_{W}H_{11}t_{1}}{\partial t_{1}\partial t_{1}} = \frac{\partial [\lambda^{2}t_{1} + \lambda U(t_{1}-t_{1})]}{\partial t_{1}} = \lambda^{2} + \lambda \delta(t_{1}-t_{1}).$

: 宣加出北) 不在在,故川的不均多多。