

2) Systen dynamics { Xx= Xx+ +Wx-1 Zx= Xx+ Vx WE-N(0,1) VE-N(0,2) where \$0=1,2,=2, Po=10 Find K1/k2 /Pa, x1 = 81/1 WR = (0,Q) 1 V = (0,R) Kalmas Carried Da Frontle given system, Q2 1; R=2; A=1, C=1 1)  $P(k|k-1) = AP(k-1/k-1)A^{T} + Q$   $P(1|0) = AP_0A^{T} + Q$  = 1(10)1 + 1 P(1|0) = 112)  $k_k = P(k/k-1)C^{\dagger}(cP(k/k-1)C^{\dagger}+R)^{-1}$   $k_i = P(110)1(1P(1/0)1+2)^{-1}$   $= (11)(13)^{-1}$ 3) P(k/k): (D-K, C) P(k/k-1) P(1/1)= (1-K, I) P(1/0) = (1-1/2) 11 P(1/1): 22 4) 2(k/k) =2(k/k-1)+kx(yx-Cx(k/k-1)) 2(k/k-1) = A x(k-1/k-1) + Bufk-1)  $\hat{\chi}(10) = \frac{A \times 0}{1}$  $\times (1/1)^2 \times (1/0) + k_1 [2_1 - 1 \times (1/0)]$   $\times (1/1)^2 + 1 + 1/3 [2 - 1]$   $\times (1/1)^2 + 1/3 [2 - 1]$ 

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= 1 (27/3) 1+ 2 (P(11)=35/13 = 35 (35 + 5), => 35 (97), = 32 (35 + 5), => 35 (97), k22 35 3) P(212)= (1-12) P(2/1) ( 26) (15) - 70 P(2/2) = 30 × Not recoded 1 )P== P(K/+1) = A(1-k+() P(K/K-1) AT+Q P(71) = 7(1-32)(35) +1 = (20) (15) 1 = (13) = Pas P(110)= (1-13) 11 + 1

a de la constante de la consta

Pool APAT-APC (CPCT+R) CPAT+Q

$$A=1, (-1; R-2; Q=1)$$

$$P_{0}=P_{0}-P_{0}(P_{\infty}+2)^{-1}P_{0}+1$$

$$P_{0}=P_{0}-P_{0}+1$$

$$P_{0}=P_{0}-P_{0}+1$$

$$(P_{\infty}-2)(P_{\infty}+1)=$$