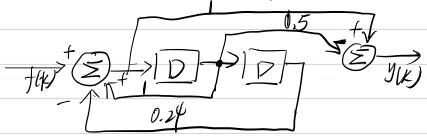
求下列差分方程所描述的LT工离散级的知, Yzs 和Y $(4) \quad y(1<) + 3y(k-1) + 2y(k-2) = f(k)$ f(K) = E(K), y(-1)= 1 9(-2)=0 解(1) 逐输入 1/21(K) +3/21(K+)+2/21(K-2)=0 $= \lambda^2 + 3\lambda + 2 = 0$ シンニーノンニー2 三方次解的: Yzick)=C,(-1)x+C,(-1)x 代入社代值: 1/2/1-1) = -C/- = 1 121-21= C1 +4C2=0 =) C=1 G=-4 R1) 1/21 (K)=(-1) K- 4(-x) K K>0 田罗状态 NZS(K) 131/25(K-1)+21/25(K-4)=1 K30 125(-1) = 125(-2)=0 =7 /25(W+3/251-D+2/25(-2)=1 => /25(W=1 1/25 (1) +3/25 (1) +2/25 (1) =1 => 1/25 (1) = -2 925(K)= (3(-1) + (4(-2) + 7 化分别增值 -125(1c) = - = (-1) x+ = (-2) x+ = 图的应 MK)= JeslK)+Jei(K)= ±(-1) = \$(-1) k+7, K20 3.10 (b)

求题3.1月間間各多統的事件序列的定



解: 设生例为明若新别为X(4)

加 左侧加 温器

 $\chi(k) = f(k) + \chi(k-1) - 0.24\chi(k-2)$

石侧加加温器

y(k) = x(k) - 0.5x(k-1)

13 h(14)-h(1+1) +0.24h(1x-2)=8(K)

-- h1(-1)=h(-2)=0 => h1(0)-h1(1)=1

一)所经济的解析

h(k) = G. (=)"+G((=), k)0

化入初始条件 => C1 = -2 C3 = 3

3 h, (k)= [-2(=)k+3(=)K)E(k)

N多統領革後序列が成为 h(K)= h(K)- zh(K+1) = 壬[(玄)*ナ(子)* J(K), K>0