:-Take-have exam give out on this This 3-3, + Change - Project Part 2 pres L to This 3-10 (complete) Example: Getting minimel realizations $G(s) = \begin{pmatrix} 1 & 2 \\ sti & \overline{sti} \\ -1 & 1 \\ (\underline{sti}(\underline{st2}) & \underline{st2} \end{pmatrix}$ get cet (use common denominators for columns) $G(5) = \begin{cases} 5+2 & 2s+1 \\ 5^{2}+3s+2 & 5^{2}+3s+2 \end{cases}$ $= \begin{cases} -1 & 5+1 \\ 5^{2}+3s+2 & 5^{2}+3s+2 \end{cases}$

$$A = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 1 & 1 & 2 \\ -1 & 0 & 1 & 1 \end{bmatrix}$$

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$$C = \begin{bmatrix} 2 & 1 & 1 & 2 \\ -1 & 0 & 1 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 1 & 1 & 2 \\ -1 & 0 & 1 & 1 \\ -2 & -1 & 1 & -2 \\ -1 & -2 & 2 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 1 & 1 & 2 \\ -2 & -1 & 1 & -2 \\ -2 & -1 & -2 & 2 \\ -2 & -1 & -$$

(A, b.) (and (u=Kx = (K, K12 K13) (X1) (ansider 1C = [UK, UK] all (kin Kiz Kis) Xz-related action action cines Long (b, though 6 but offer ke T, y, +y, = K, u, + K12 42 42 j, + Eryz + 72 - Kruly D. (5) (4) - N_(5) (4)

Given $G(s) = C(sI-A)^{T}B + B^{T}O + Common G(s) = G(s) + G(s)$