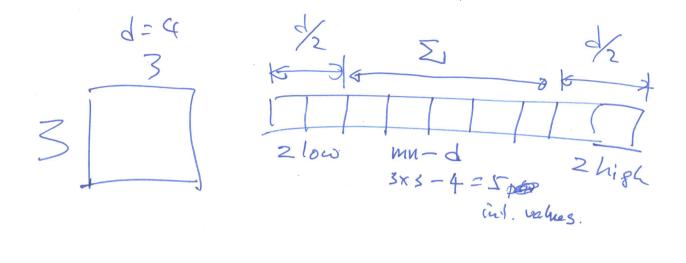
J= f\*h f\*h o(12 x c) } FT-1 1 0(N2) f(x,3) h(x,3) H(an) T(20) 4 FT (Rix) on A (Rix) flat (Rix) of a (Rix) of GI F(Uis) a + b F(Uis) F(RUIS) H(a,v)-a+bHb 512×512 6(U, W) F(U, V) M(U, V) 1 filtered output

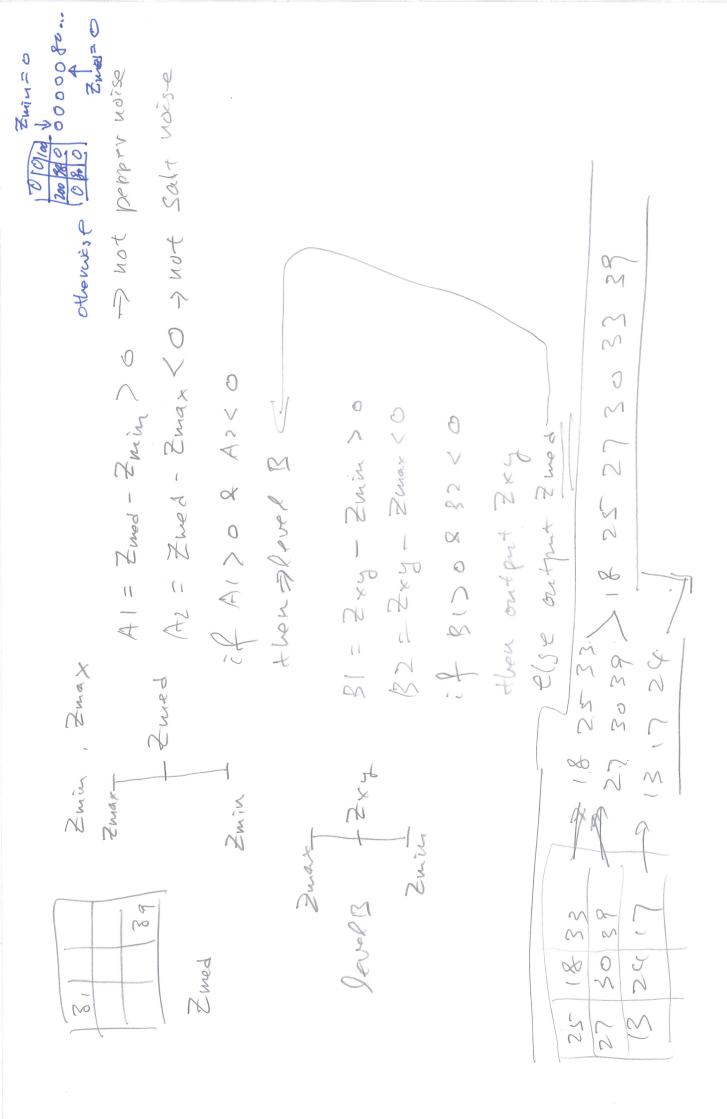
H(uir)= a+bHm(uir)

G(u,v) = F(u,v) H(u,v)  $= aF(u,v) + b F(u,v) H_{h}(u,v)$   $\downarrow FT^{-1}$ 

g(x,3) = af(x,8) + bf \* hy (x,3)



02 = 02 > f(x, 2) = g(x, 2) - (0) Cg(x, 2) - ML] JM I MC 1 2 ( x : 5 ) ( x · x) B = (B · x) f N M

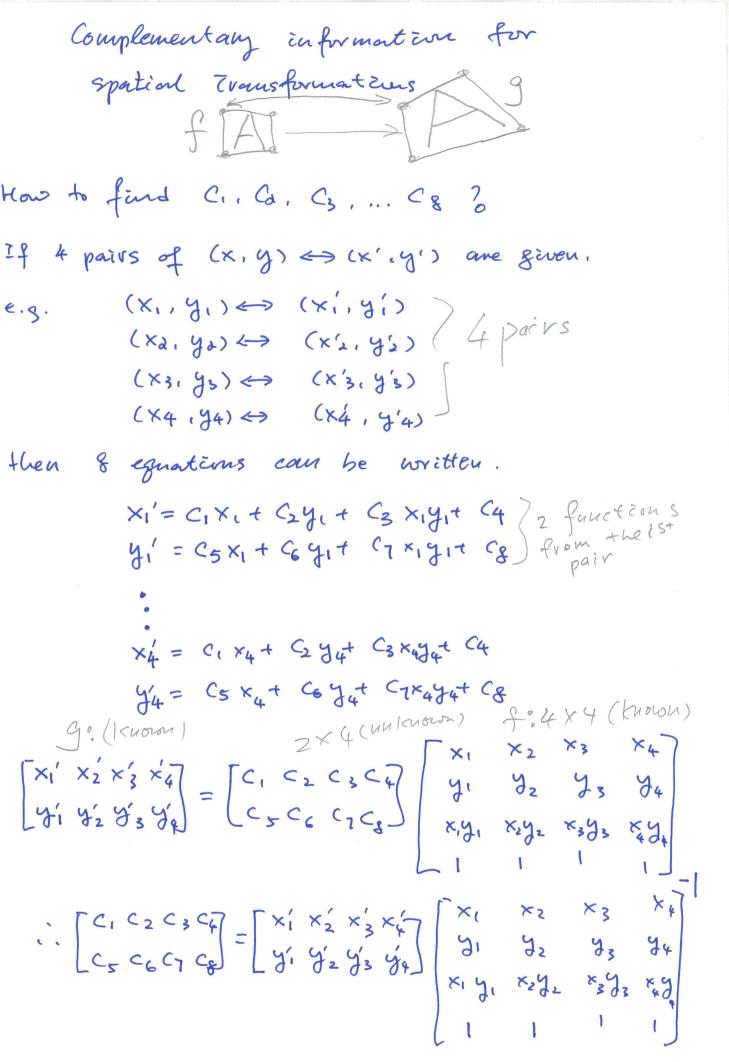


 $X_{1}' = C_{1}X_{1} + C_{2}Y_{1} + C_{3} \times iY_{1} + C_{4}$   $Y_{1}' = C_{5}X_{1} + C_{6}Y_{1} + C_{7}X_{1} + C_{8}$ 

10°

.

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## Complementary information for Grey-level Assignments

## Bilinear interpolation

How to find I, given that II, Iz, I3

and I4 are known ?

I(X(1)) = a x1+ by1+ (x1 y1+ d I2(X21)) = ax2+ by2+ Cx2y2+d I=? (x,y) I3(x, y)

I3(x3, y3) = ax3+ by3+ Cx3 y3+d
I4(x4, y4) = ax4+ by4+ Cx4y4+d

4x4 Kuown

$$\begin{bmatrix} a & b & c & d \end{bmatrix} = \begin{bmatrix} I_1 & I_2 & I_3 & I_4 \end{bmatrix} \begin{bmatrix} x_1 & x_2 & x_3 & x_4 \\ y_1 & y_2 & y_3 & y_4 \\ x_1y_1 & x_2y_2 & x_3y_3 & x_4y_4 \end{bmatrix}$$

i. a.b. C2d are found and

I (x,g) = ax + by+ cxytd