Correlation T Cinculan Cross Anto Correlation Correlation Correlation Y(r) 面 Cross correlation! ×(n) = {1,1,2,2}, Y(n) = {4,3,1} First step: Y(-x) = {1,3,1} Y (-x) -,  $1 \frac{3}{1} \frac{1}{3} \frac{3}{1} \frac{1}{3} \frac{3}{1} \frac{1}{3} \frac{3}{1} \frac{$ -. Pry = {1,4,6,9,8,2} 1 Auto correlation! X(n) = {1,2,3,43 . X(-x1) = {4,3,2,-13 x(-n) - 6 1 4 3 2 1 1 4 3 2 1 x(n) 2 8 6 - 4 2 1 3 12 9 6 3 4 - 16 - 12 8 4 84,11,20,30,20,11,43 flighest = +3 Lowest : - 3 -. hn = \$4,11,20,30,20, 11,43 Dicircular Correlation: X(n) = { 1,1,2,13, Y(n) = { 2,3,1,13  $\overline{P}_{xy} = \begin{bmatrix} 2 & 3 & 1 & 1 \\ 1 & 2 & 3 & 1 \\ 1 & 1 & 2 & 3 \\ 3 & 1 & 1 & 2 \end{bmatrix} \begin{bmatrix} 1 \\ 2 \\ 9 \end{bmatrix}$ × (n) may = {8,10,9,8}