0-1 8 (x+1,y) + 8 (x-1,y)

In & (notify) is defined at re=1, y=0. Taking mod Final function is.

S(x-(N-1),y)+8(x-1,y)

only defined at N=N-1 & n=1 y=0 ushe sifting property weget. P(L,L) = = 32 / (N-1) e0 + e N e FLIL) = @ 32x K(NM) + e N

Checking value at different point K, I in above equation,

1) (KIN) = (0,00).

F(0,0) = e0 + e0 = 1+1

we can see that Wan & requery,

value at KZN MZM is low which mean

it block de value, whereas top leyt and congramadate top have allow De value topass Connor value som trop de tomough so

W20, M20 Us how Inequerey solts Low pass filter.

De value passing through center are

blocked. wheneas -OC value can pass through top left torney which are

F(17, 17) = e 7 K (N-1) + e 22N

P(17/3) = e-3x(N-1)

4 N → even

N-1 7 odd.

F(2 1/2) = 8 (-1) -1

4y N -> odd (N 1) -> even

平(型,型)=(一1)~一一

= - topological horizontal 9-2 Calver an image varing strong periodic times. For eliminating these lines, we can have a filter line the in Jucaverey domain. We can use a Notch reject filten Profrequency do made , Black ventical strip with De value at the centerstulp in fraverey domain. 1-108- (H. (1-M) -21)8 For a periodie image like this, Below exers without shifting) Toming. \$ 20 PFT. of This trage we gets ones non the left with nonzero values. Anonder to supress them we can toke Hadamand product with a filter hauting. zero value at text ventical columnin frequency donaln, on taking product (1- this all he more those penialic these = (1) Discharge rate of the point to all a point