The clean Image is I(n,y). (n,y) & I (Internsity W(n,y)~ N(0,62) In (n,y) = I(n,y) + W(n,y) amage pixel). here the Image and noise are Independent. MILITER AND STATE OF THE STATE PI, W(K) = PI (K). PW(K) {PDF of moisy smage? $\frac{(In)}{P(In \leq k)} = P(I+W \leq k) = \int_{-\infty}^{\infty} \int_{-\infty}^{k-W} P_{I}(i) P_{N}(w) didw}$ didwCDF(In): PDF = d(cDF) $P_{In}(K) = \frac{\partial}{\partial K} \int_{-\infty}^{\infty} \int_{\infty}^{K-\omega} P_{I}(i) P_{\omega}(\omega) did\omega$ $P_{In}(K) = \int_{-\infty}^{\infty} P_{\mathbf{I}}(k-\omega).P_{\omega}(\omega)d\omega$ leibning PDF of maisy Image = \int_\infty P_I(K-W) Pw(W) dw theorem 3. DF Of Clean and PDF of noise

2.1. PDF of gaussian = $\frac{1}{5\sqrt{2\pi}}e^{-n^2/26^2}$ distribution = $\frac{1}{5\sqrt{2\pi}}$ Is can't apply this formula as PDF of clean. 2 mage in form of edistribution not given.