Image (Assum no noise) S = 6 * f take F.T., G = H F (Convolution theorem) . ° . F = G/H = F f(x,y) = F (F)1 If II is zero, there is a problem in extinctly F. othermore this task is completely well-defined. Now, assume that there is some unknown) (x,y) = (h * f) (x,y) + y (m,y) toke F.T. 9(a,v) = H(a,v) F(a,v) + N(a,v) f (4,0) = G(4,0) / H(3,0) F (u,o) = G(u,o) / H(u,o) - N(u,o) / H(u,o) $f(u,v) \neq F(yv)$ If H(4,0) has small values (this will happens for higher frequencies i-e. higher values Julu, if h(1,9) is a blur kernel i.e. a low-pass filter), the corresponding estimates J F(4,0) will be highly enoneous if there is even q tiny amount of noise.