































































16

••• Linearity $\Im[a \cdot f1(x,y) + b \cdot f2(x,y)] = a \cdot F1(u,v) + b \cdot F2(u,v)$



• • • Periodicity

$$F(u,v) = F(u+M,v+N)$$

• Conjugate symmetry: $F(u,v) = F^*(-u, -v)$ where: $F^*(u,v) \text{ is the conjugate of } F(u,v)$ i.e., if: F(u,v) = R(u,v) + jI(u,v)then: $F^*(u,v) = R(u,v) - jI(u,v)$ |F(u,v)| = |F(-u, -v)|

























Remove High Frequencies (Blurring)

49



Spatial Domain



Frequency Domain

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