

Concepts to be learned:

1. Inverse Filters
 - a) Gaussian blurring
 - b) Sharpening Filters
2. 2D Fourier Transforms
 - a) Definition
 - b) Inverse FT
 - c) Scaling Theorem
 - d) Shift Theorem
3. Effect of Measuring Aperture
4. Line Spread Function
5. Edge Spread Function
6. Resolution
 - a) FWHM
 - b) First Zero
 - c) Equivalent Width
7. Linear Filter Analysis of General Imaging Model
 - a) Source
 - b) Detector
 - c) Aperture
 - d) Convolution Formulation

Reading assignment:

Barrett, Chapter 2 and 4

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