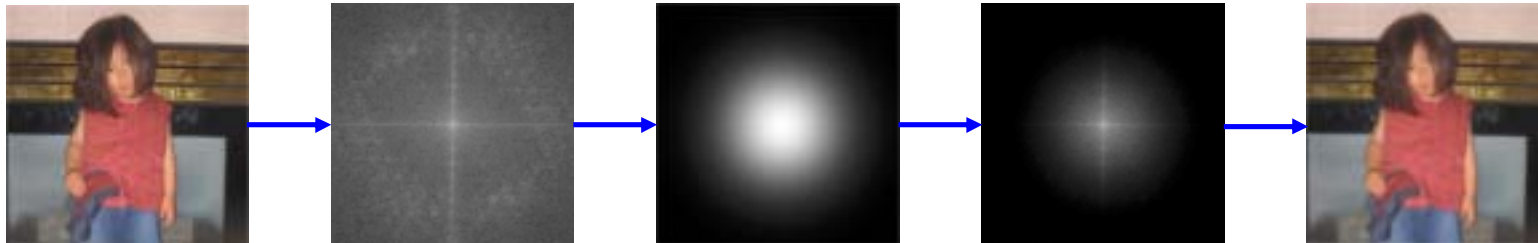
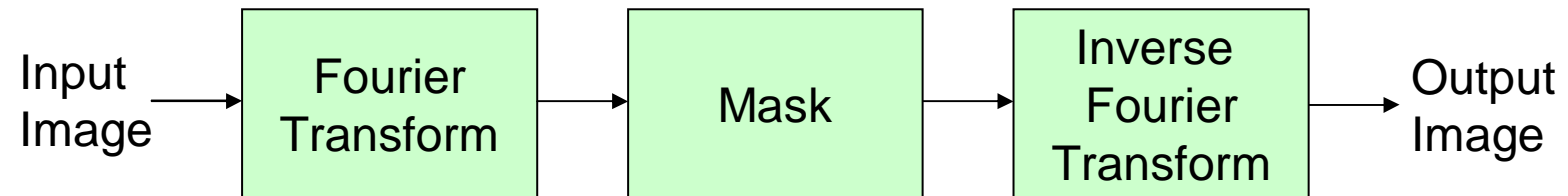


# Digital Image Filters

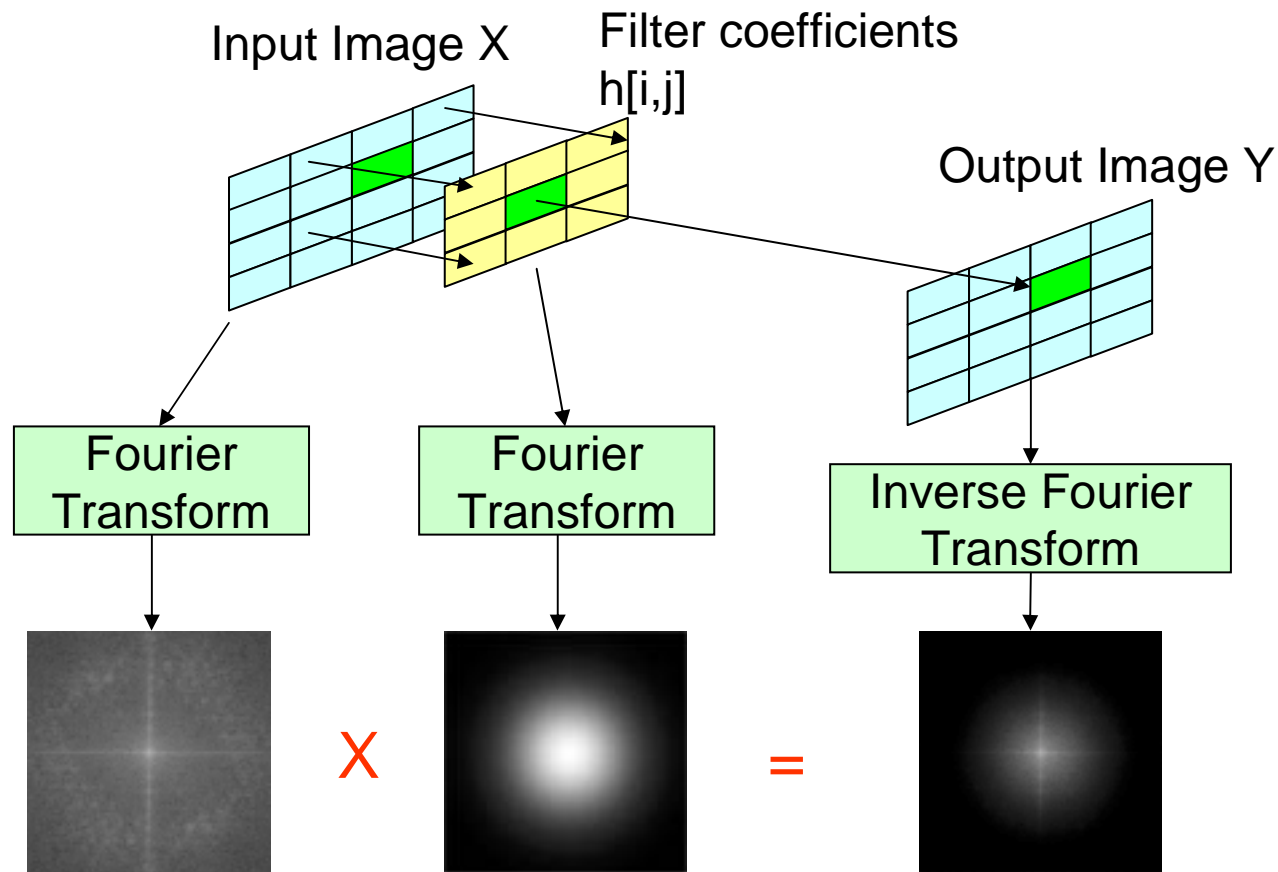
## (Filtering in The Frequency Domain)

 **Hoon Yoo, Ph.D.**

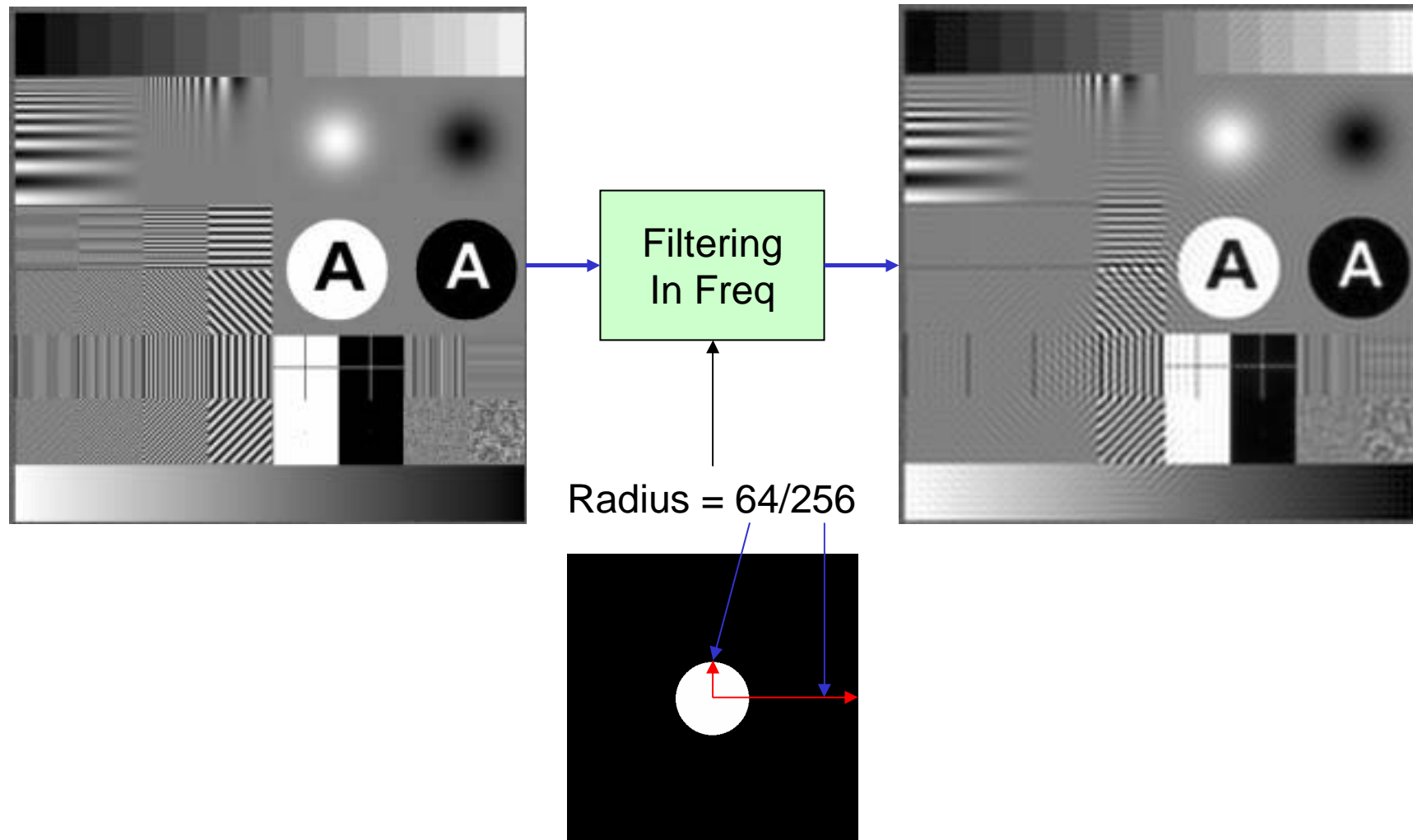
# Filtering in The Frequency Domain



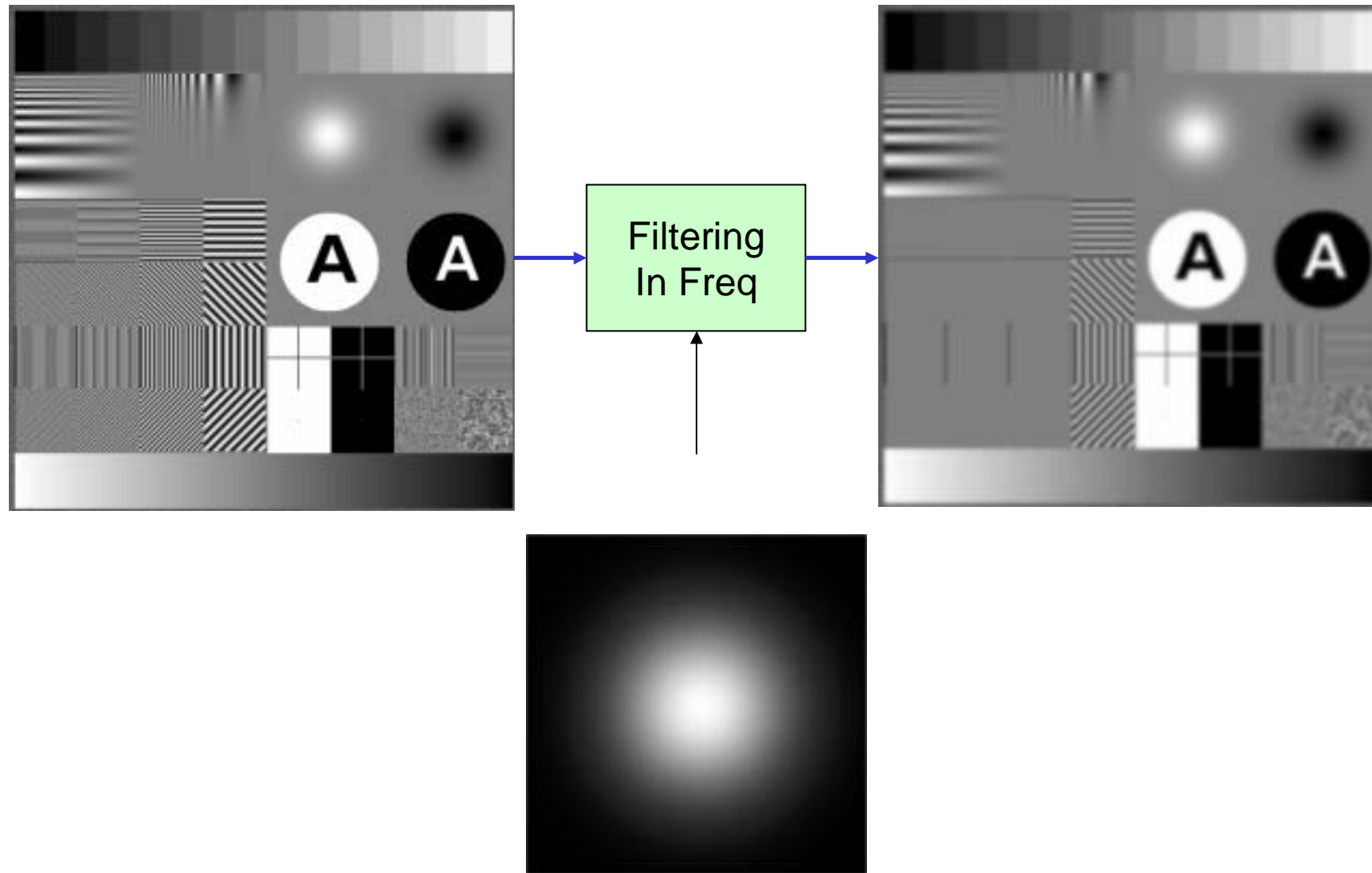
# Filtering in The Frequency Domain



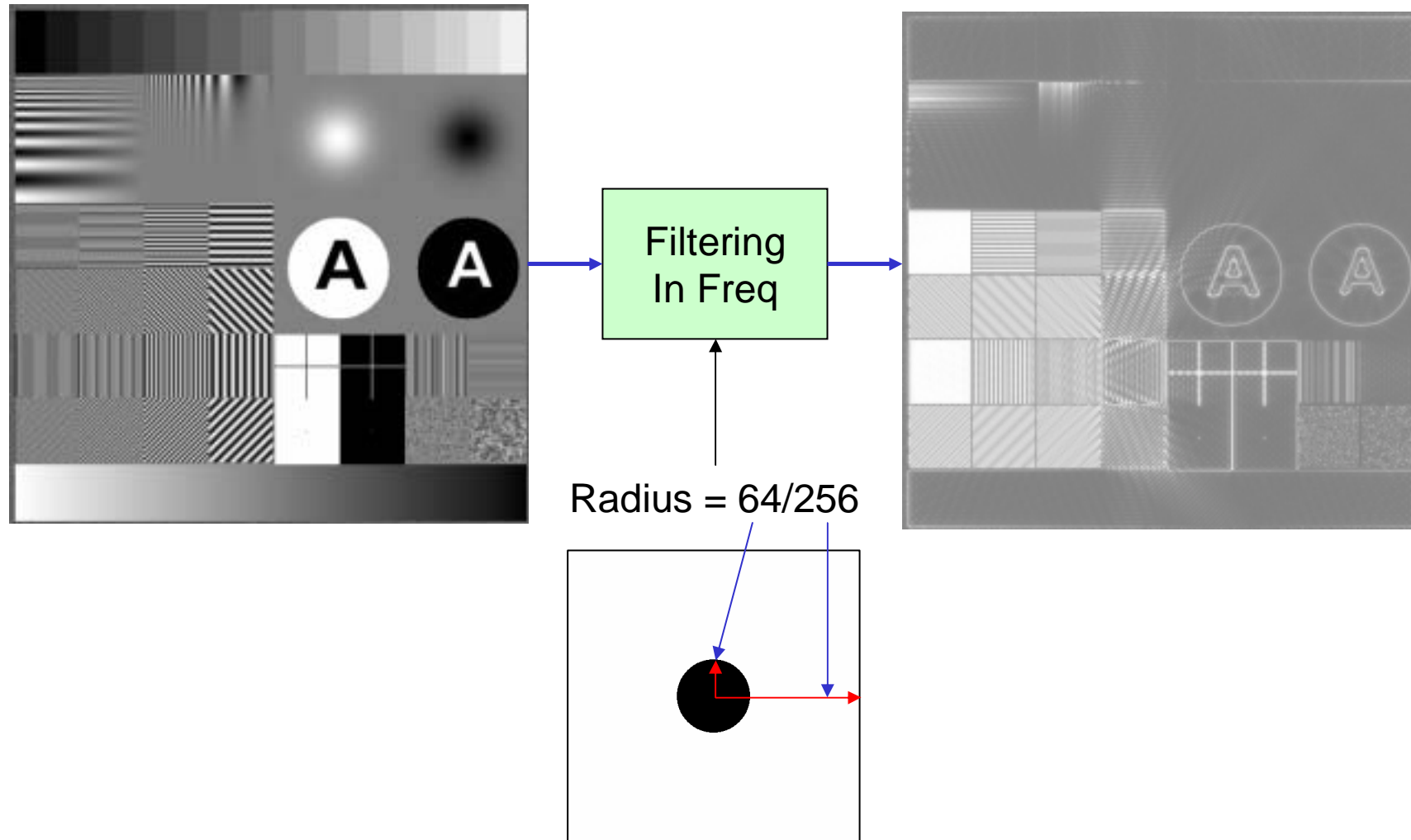
# Ideal Low Pass Filter



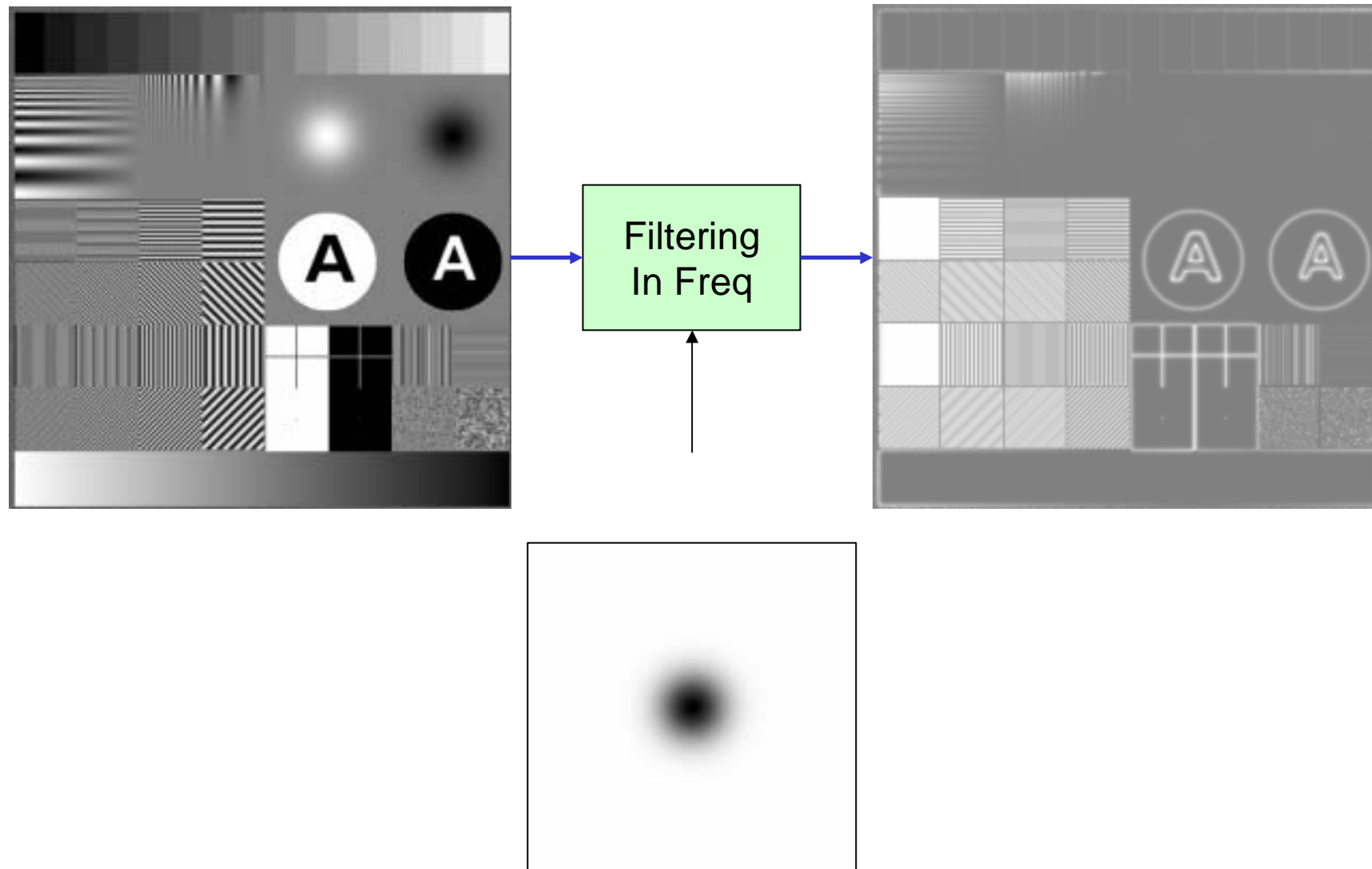
# Gaussian Low Pass Filter



# Ideal High Pass Filter



# Gaussian High Pass Filter



# Summary

- Frequency domain filtering
  - Masking Fourier transformed image
- Ideal low pass filter
- Ideal high pass filter
- Gaussian low pass filter
- Gaussian high pass filter