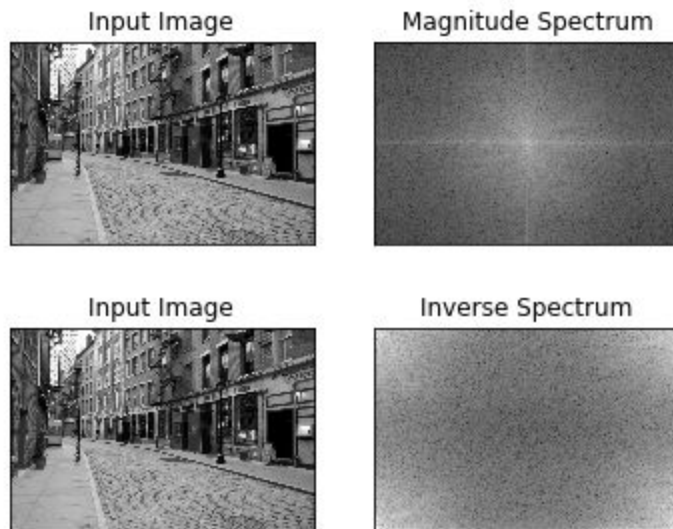
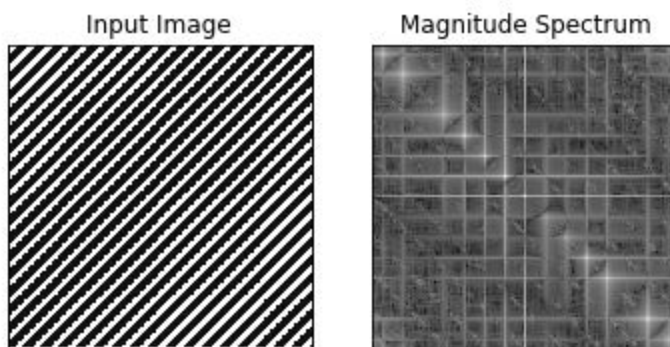


1. Fourier Transform of image and the magnitude Spectrum.

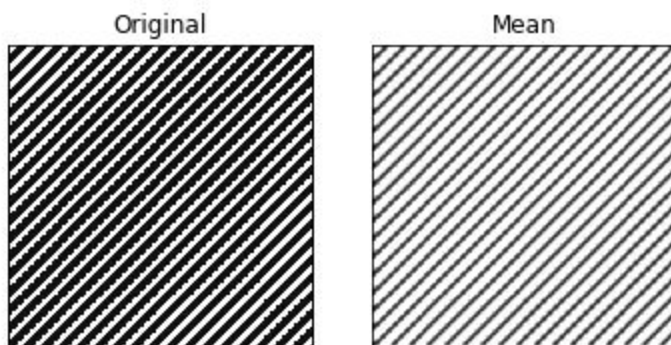


2. Applying Mean Operator to image

Magnitude Spectrum of original

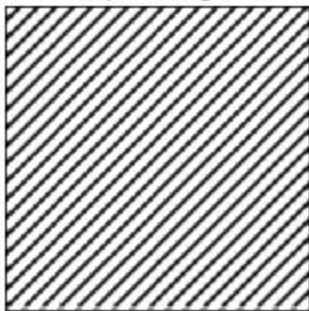


Applying Mean Operator :

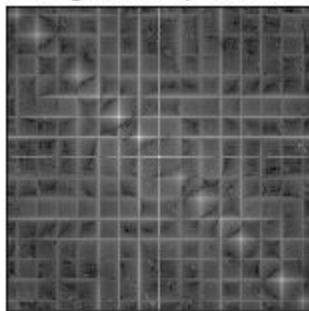


Magnitude Spectrum of result :

Input Image



Magnitude Spectrum



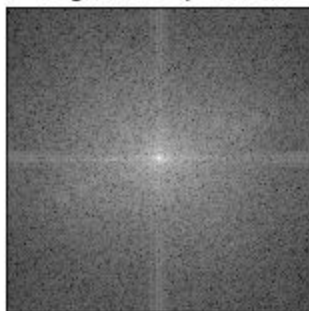
### 3. Adding different Noise to Image.

Original:

Input Image



Magnitude Spectrum

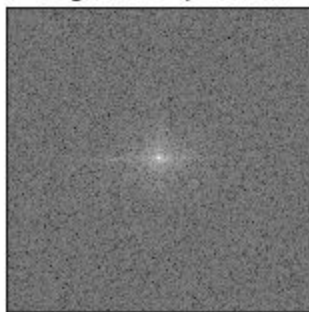


Added Noise :

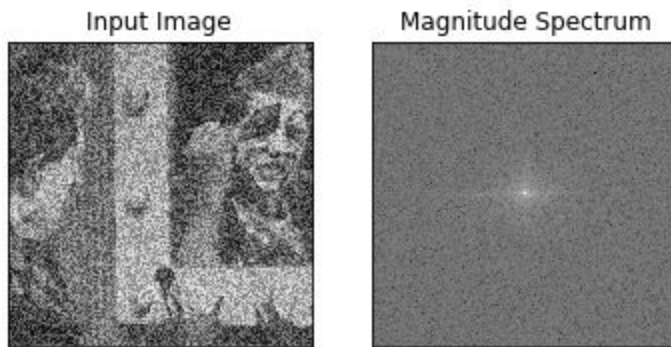
Input Image



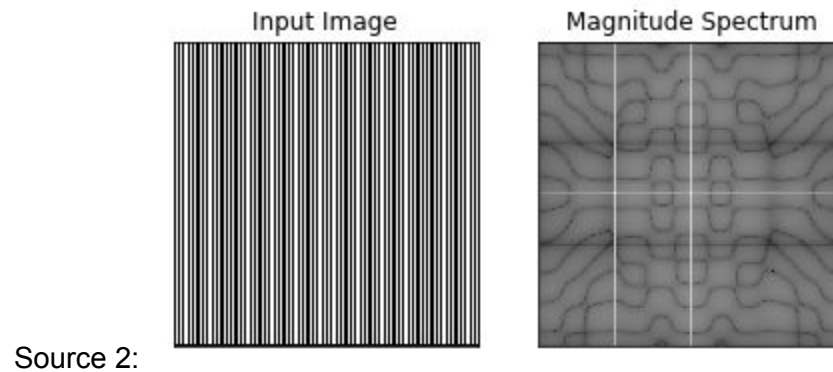
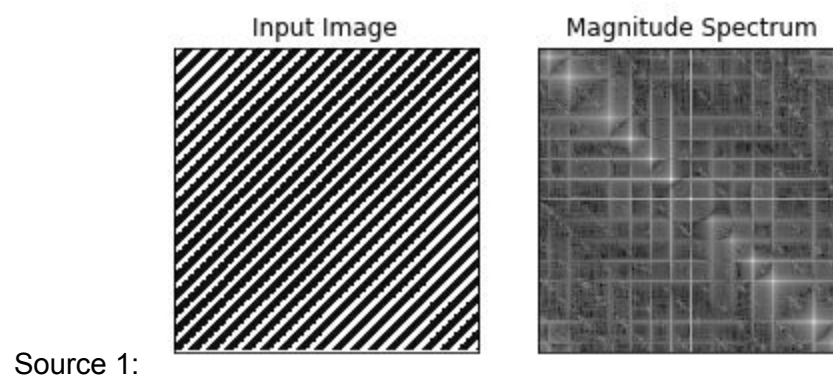
Magnitude Spectrum



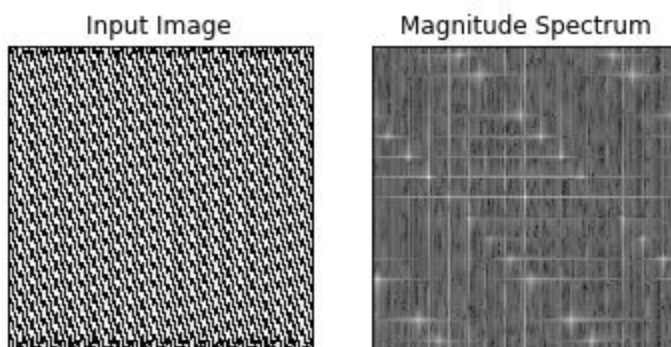
More Noise :



#### 4. Multiplying Images and their fourier Transforms

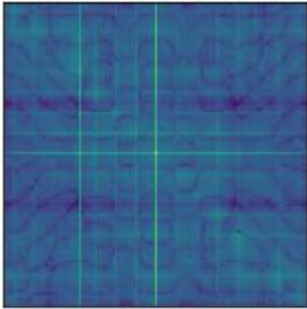


Multiplying both images and then taking Fourier transform Magnitude Spectrum:



Multiplying Fourier Transforms and then taking the Magnitude Spectrum

Fourier multiplication



Fourier transform is not distributive over multiplication.