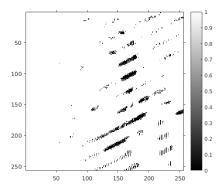
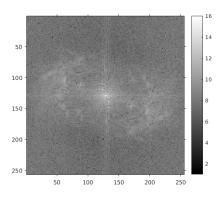
## **Load Image**

```
load('../data/image_low_frequency_noise.mat');
fim = fftshift(fft2(Z));
absfim = log(abs(fim) + 1);
figure
subplot(1,2,1)
imshow(Z)
axis on, colorbar
subplot(1,2,2)
imshow(absfim, [1, 16])
axis on, colorbar, waitforbuttonpress
```

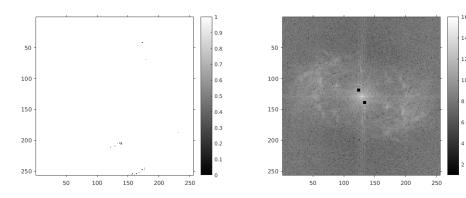




## **Notch Filtering**

The fourier transform indicates high frequency component at (119,124) and (139,134) This was determined using find (13 < absfim & 14 > absfim) We construct 5\*5 notch filters at these locations to remove low frequency noise

```
figure
subplot(1,2,1)
imshow(img2)
axis on, colorbar
subplot(1,2,2)
imshow(absfim2, [1,16])
axis on, colorbar, waitforbuttonpress
```



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