

## **Basics:**

### **Digital Signal Processing Basics and Nyquist Sampling Theorem**

<https://www.youtube.com/watch?v=WgJMjDh0nLU>

### **ADC Theory and Some practical Examples**

[https://www.youtube.com/watch?v=7X53\\_QCXbjk](https://www.youtube.com/watch?v=7X53_QCXbjk)

### **DSP Lecture 14: The Sampling Theorem**

<https://www.youtube.com/watch?v=Z7ErH7UTMs>

### **DSP Lecture 10: The Discrete Fourier Transform and MATLAB**

<https://www.youtube.com/watch?v=jnxTpxB7HR8>

## ANALOG REFERENCES

### Lecture 1 | The Fourier Transforms and its Applications

<https://www.youtube.com/watch?v=gZNm7L96pfY&autoplay=1&app=desktop>

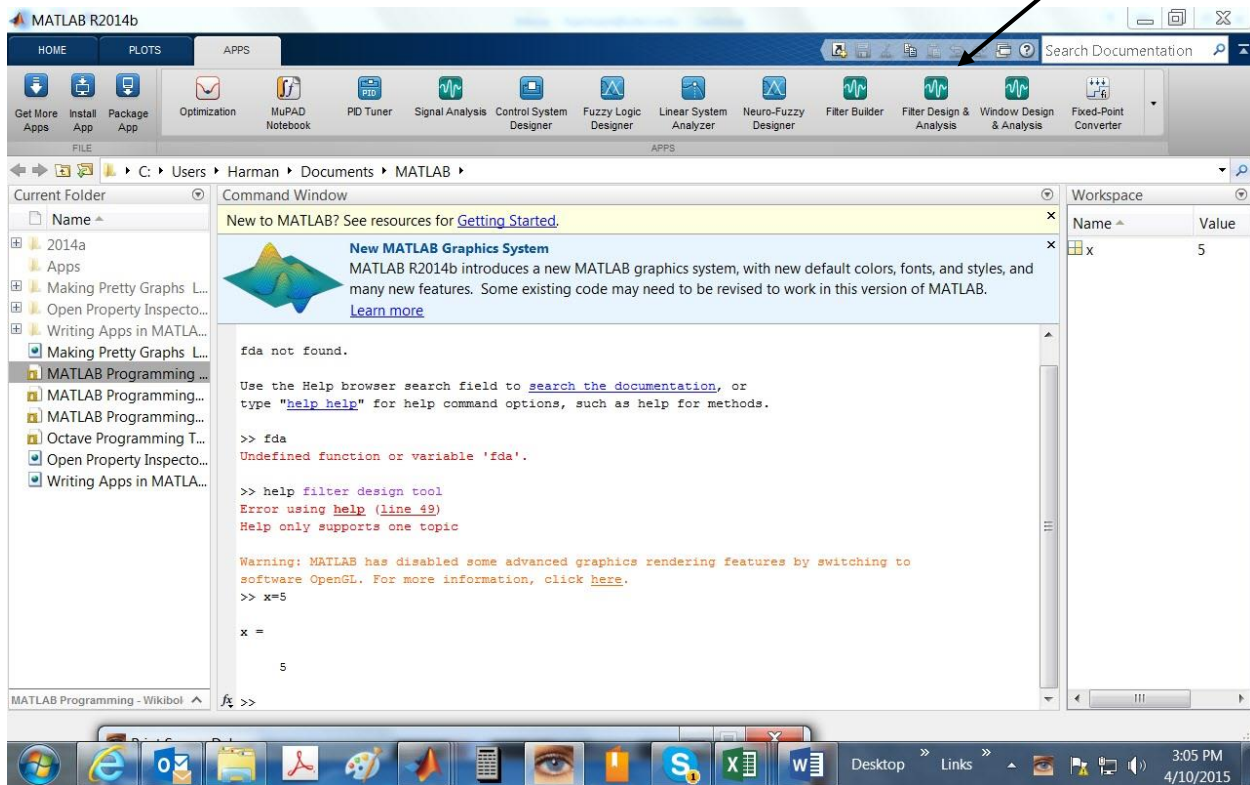
### Butterworth Filters - Several Videos

<https://www.youtube.com/watch?v=dmzikG1jZpU>

### Matlab Filtering Demo Part 1 obeidlab

<https://www.youtube.com/watch?v=utrb6DN-Pgc>

He covers the Filter Design Tool – Select APPS and the Filter Design & Analysis tool.



Note that the video is based on 2010 MATLAB but the use of the FDA is the same.

### Comparison of analog and digital recording – WIKI Text file

[http://en.m.wikipedia.org/wiki/Comparison\\_of\\_analog\\_and\\_digital\\_recording](http://en.m.wikipedia.org/wiki/Comparison_of_analog_and_digital_recording)