Digital Signal Processing Lab

Exp 7 Low Pass, High Pass, Band Pass and Band Stop Filter Using Rectangular Window

I Pre-Lab Questions

1 What is FIR and IIR filters?

Ans FIR filter is a filter with no feedback in its equation. This can be advantage because it means FIR filters inherently stable.

The Infinite Impulse Response (IIR) filter is a recursive filter that the output from the filter is computed by using the current and previous inputs and previous outputs.

2 What is the purpose of windowing for FIR filter design?

Ans The window method for digital filter design is fast, robust, convenient and generally suboptimal. It is easily understood in terms of the convolution theorem for Fourier transform making it instructive to study after the Fourier theorem and windows for spectrum.

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