Digital Signal Processing Lab Ezpetiment -13: Interprolation of Gignel Time and Frequency Domain

Re-Lab Question: (13a).

What is the difference the upsampling and Interpolation? Sampling tale Conversion Systems are used to Change te Sampling rate of a Signal The process of Sampling take Legens is called Lecimation and the process of Dampling take increase is called interpolation

2 Compare Decimation and Interpolation

Sola

Decimation:

- To Reduce Sampling take of discrete time Signal - Low Samples take before Storage and Comportation beginnerents Interpolation

- Increase Sampling tate of a disorder time signal

- Hove Sampling tate Interiors disterty.

I Re- Lab Drestins (136)

Explain how the interpolation in grequency domain it advantageous over time domain interpolation?

John.

Time domain toguis tegas to / display the change in a Signal over a Shan of time and greguency domain displays has much of the signed within a given band Concerning a range & group encies.

Salo.

2. Compare time domain and brequercy to main interpolation in Coting logic Frequery domin interpolation was unsampled input data. Plat the FFT pricing Un Company is performed by zero pastig the pristle Samples Of input Sequence

Time domain interpolation by a factor of its implemented by adding a Cyclic phelion and unsampling sequence by zero padding the Sample - Unsampled are aidtend by an FIR Low pass aidter and bent to Channel.

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