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Digital Signal Processing(DSP) From Ground Up™ using Arduino

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If you have an interest in using digital signal-processing (DSP) techniques on a microcontroller (MCU) don't buy this book. Instead, I recommend you look at integrated-circuit manufacturer's DSP application notes, review comments and posts on DSP user groups, choose a microcontroller, and jump in.

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A very good example of complex signal processing is seen in digital systems that employ a front-end tuner. These systems fall into a category that can be loosely categorized as “digital radio,” in that an input wideband signal is tuned up or down in frequency and passed through a band pass or low pass filter to isolate some narrow band of interest.

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Perform zero-phase filtering to avoid phase distortion.

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Use the `filtfilt` function to process the data. `ybs = filtfilt(df,yds)`; Finally, upsample the signal to bring it back to the original audio sample rate of 44.1 kHz which is compatible with audio soundcards. `yf = interp(ybs,10)`; `Fs = Fs*10`;

~~Practical Introduction to Digital Filtering – MATLAB ...~~

Digital signal processing (DSP) is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations.

~~Digital signal processing – Wikipedia~~

Prof Dogan Ibrahim's book on Digital Signal

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Processing is an excellent book. It is, as far as I am aware, one of the few books that teaches the practical aspects of DSP. I spent many days reading several other books and looking at the DSP manufacturers' data sheets, application notes and development kits to try and understand how to implement a ...

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In signal processing and related disciplines, aliasing is an effect that causes different signals to become indistinguishable (or aliases of one another) when sampled. It also often refers to the distortion or artifact that results when a signal reconstructed from samples is different from the original continuous signal.. Aliasing can occur in signals sampled in time, for instance digital audio ...

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~~Aliasing - Wikipedia~~

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~~Solved: Classify the following signals according to ...~~  
My research interests are in digital signal processing, sparsity in signal processing, and wavelet-based signal/image/video processing. My recent research focuses on using sparse signal representations and



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approximations to develop new methods for filtering, signal separation, deconvolution, etc.

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