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Digital Filters - nptel. 9. Digital Filters. In many applications of signal processing we want to change the relative amplitudes, and frequency contents of a signal. This process is generally referred to as filtering. Since the Fourier transform of the output is product of input Fourier transform and frequency response of the system, we have to use appropriate.

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CHAPTER 9. DIGITAL FILTER DESIGN $W_c W_0 1 0.707 N = 1 N = 2 N = 4 N = 8 H_c(j\omega)$ Butterworth Magnitude Response for order $N = 1, 2, 4,$ and 8 The Butterworth filter is optimum1 in the sense that it provides the best Taylor series approximation to an ideal lowpass filter

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Design of Digital Filters

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