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CHAPTER 9. DIGITAL FILTER DESIGN  $N_c$   $W$   $0$   $1$   $0.707$   $N - 1$   $N - 2$   $N - 4$   $N - 8$   $H_c(\ )$   $J$ W Butterworth Magnitude Response for order  $N = 1, 2, 4,$  and  $8$  The Butterworth filter is optimuml in the sense that it provides the best Taylor series approximation to an ideal lowpass filter

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8.2 c J.Fessler,May27,2004,13:18(studentversion) So far our treatment of DSP has focused primarily on the analysis of discrete-time systems. Now we nally have the analytical tools to begin to design discrete-time systems. All LTI systems can be thought of as lters, so, at least for LTI systems, to fdesignf

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