



Digital Signal Processing: A System Design Approach

By David J. DeFatta, Joseph J. Lucas, William S. Hodgkiss

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Provides a new methodology for performing system design of signal processing applications, offering easy-to-follow procedures which can be implemented on personal computers. Topics covered include a structured approach to filter design with closed form equations for classical IIR filter implementations in 2nd order cascaded stages; radix 4 & 8 FFT implementation algorithms for bit reversal, read/write data addressing and twiddle factors; overlap FFT processing gain computation procedure and results for popular windows, and comprehensive finite arithmetic analysis procedure for cascaded implementations. Multirate processing is covered, along with a system design of a high resolution detection application showing the procedure for analyzing the hardware and software architecture requirements. BASIC routines are provided for several DSP operations.

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