



# Digital Signal Processing: A System Design Approach

By David J. DeFatta, etc., J.J. Lucas

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A new methodology for performing system design of signal processing applications is provided by this book, 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 and 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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## Digital Signal Processing: A System Design Approach By David J. DeFatta, etc., J.J. Lucas Bibliography

- Rank: #10227741 in Books
- Published on: 1988-04-30
- Format: International Edition
- Original language: English
- Number of items: 1
- Binding: Paperback
- 686 pages

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