



Multirate Signal Processing for Communication Systems

Fredric J. Harris

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Multirate Signal Processing for Communication Systems: Current Practice and Next Generation Techniques
fredric j harris Multirate signal processing can reduce costs and improve performance in applications ranging from laboratory instruments to cable modems, wireless systems, and consumer entertainment products. This book offers the first systematic, clear, and intuitive introduction to multirate signal processing for working engineers and system designers. The author uses extensive examples and figures to illuminate a wide range of multirate techniques, from basic resampling to leading-edge cascade and multiple-stage filter structures. Along the way, he draws on extensive research and consulting experience to introduce processing tricks shown to maximize performance and efficiency. Coverage includes:

- *Effective sampling and resampling in time and frequency domains
- *Relationships between IIR Filter specifications and filter length (taps)
- *Window design and equal-ripple (Remez) design techniques
- *Square-Root Nyquist and Half Band Filters, including new design enhancements
- *Polyphase IIR Filters: up-sampling, down-sampling, and cascade up-down sampling
- *Polyphase interpolators and filters that perform arbitrary sample rate change
- *Dyadic Half Band Filters, including quadrature mirror and IIR Filters
- *Polyphase Channelizers, including M-path modulators, demodulator channel banks, simultaneous interpolation, and channel bank formation
- *Comprehensive coverage of recursive all-pass filters a topic never before covered in this detail
- *Comparisons with traditional DSP design techniques
- *Extensive applications coverage throughout

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