



Practical Applications in Digital Signal Processing

By Richard Newbold

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- Lengthy discussion of analog and digital tuning and signal translation
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- A comprehensive study of the design of digital data locked loops
- Complete coverage of the design of digital channelizers
- A detailed treatment on the design of digital automatic gain control
- Detailed techniques for the design of digital and multirate filters
- Extensive coverage of the CIC filter, including the topic of bit pruning
- An extensive review of complex variables
- An extensive review of the Fourier series, and continuous and discrete Fourier transforms
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Editorial Review

About the Author

Richard Newbold has been a digital hardware design engineer for more than thirty years. His designs have included special-purpose signal processing computers and systems, multirate filters, direct sequence spread spectrum processors, high-speed gallium arsenide ASIC design, wideband channelizers, fault-tolerant signal processors, adaptive beam forming, data lock loops, multirate PCM processing, adaptive filters, tuners, frequency synthesizers, digital automatic gain control, and much more. His practical design experience encompasses every topic covered in this text.

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