

Streamlining Digital Signal Processing

A Tricks of the Trade Guidebook

Streamlining Digital Signal Processing shows filter designers how to increase the computational speed of their signal processing operations and provide practical, real-world tips and tricks not covered in conventional DSP textbooks. It offers new implementations of signal flow design, spectral analysis, signal generation, high-speed function approximation, and various other DSP functions. It provides:

- Cost tips, tricks of the trade, various practical methods, and clever engineering solutions from seasoned signal processing professionals
- An assessment of signal processing topics such as signal filtering, signal analysis, signal generation, and generalized math-computations
- Multiple signal processing techniques not taught in engineering schools
- An introduction to DSP theory followed by tried and true advice on how to make DSP hardware and software designs operate faster—with improved accuracy and computational efficiency

Streamlining Digital Signal Processing is an ideal book for electrical engineers, computer programmers, and students wanting to both enhance the performance and increase the operational speed of their signal processing hardware and software.

RICHARD G. LYONS is a Contracting Systems Engineer and lecturer with Science Applications in Mil. Valle, California, and a former lead hardware engineer for both the National Security Agency (NSA) and TRW Inc. (now Lockheed Martin Corp.) He is an Associate Editor for *IEEE Signal Processing Magazine* and a member of the IEEE and its Signal Processing Society. Mr. Lyons has written over thirty conference papers on DSP topics and received the 2007 IEEE Signal Processing Magazine Best Column Award.

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Streamlining Digital Signal Processing

A Tricks of the Trade Guidebook

Edited by Richard G. Lyons



Lyons

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