



Streamlining Digital Signal Processing: A Tricks of the Trade Guidebook

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This book presents recent advances in DSP to simplify, or increase the computational speed of, common signal processing operations. The topics describe clever DSP tricks of the trade not covered in conventional DSP textbooks. This material is practical, real-world, DSP tips and tricks as opposed to the traditional highly-specialized, math-intensive, research subjects directed at industry researchers and university professors. This book goes well beyond the standard DSP fundamentals textbook and presents new, but tried-and-true, clever implementations of digital filter design, spectrum analysis, signal generation, high-speed function approximation, and various other DSP functions.

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Editorial Review

Review

“Great tips, tricks of the trade, secrets, practical shortcuts, and clever engineering solutions from seasoned signal processing professionals ... Valuable signal processing techniques not taught in engineering schools .” (ITbriefing.net, 2 August 2012)

From the Back Cover

Streamlining Digital Signal Processing, Second Edition, presents recent advances in DSP that simplify or increase the computational speed of common signal processing operations and provides practical, real-world tips and tricks not covered in conventional DSP textbooks. It offers new implementations of digital filter design, spectrum analysis, signal generation, high-speed function approximation, and various other DSP functions. It provides:

- Great tips, tricks of the trade, secrets, practical shortcuts, and clever engineering solutions from seasoned signal processing professionals
- An assortment of signal processing topics such as signal filtering, signal analysis, signal generation, and specialized math computations
- Valuable 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 scientists seeking to both enhance the performance and increase the operational speed of their signal processing hardware and software.

About the Author

RICHARD G. LYONS is a Contracting Systems Engineer and lecturer with Besser Associates in Mt. View, California, and a former lead hardware engineer for both the National Security Agency (NSA) and TRW Inc. (now Northrop Grumman Corp.) He is an Associate Editor for IEEE Signal Processing magazine and a member of the IEEE and Eta Kappa Nu honor 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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