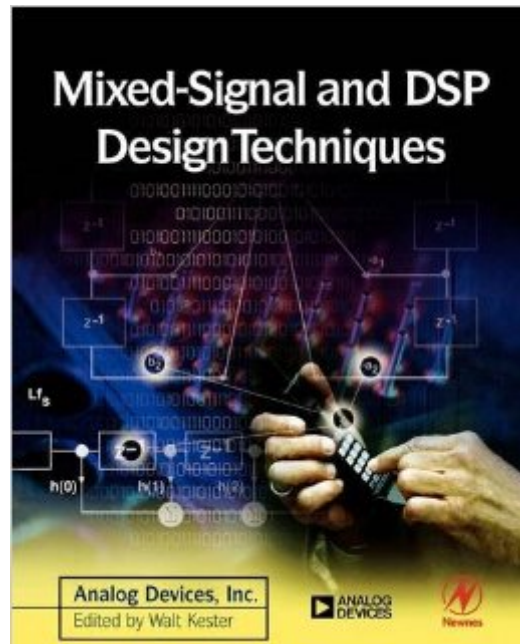


The book was found

Mixed-signal And DSP Design Techniques (Analog Devices)



Synopsis

The reader is provided with information on how to choose between the techniques and how to design a system that takes advantage of the best features of each of them. Imminently practical in approach, the book covers sampled data systems, choosing A-to-D and D-to-A converters for DSP applications, fast Fourier transforms, digital filters, selecting DSP hardware, interfacing to DSP chips, and hardware design techniques. It contains a number of application designs with thorough explanations. Heavily illustrated, the book contains all the design reference information that engineers need when developing mixed and digital signal processing systems. *Brought to you from the experts at Analog Devices, Inc.*A must for any electrical, electronics or mechanical engineer's reference shelf*Design-oriented, practical volume

Book Information

Series: Analog Devices

Paperback: 368 pages

Publisher: Newnes; 1 edition (January 2, 2003)

Language: English

ISBN-10: 0750676116

ISBN-13: 978-0750676113

Product Dimensions: 7 x 1 x 9.5 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (5 customer reviews)

Best Sellers Rank: #2,466,710 in Books (See Top 100 in Books) #83 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs](#) #344 in [Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Signal Processing](#) #545 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products](#)

Customer Reviews

This book is based on a set of Seminar Notes that had previously been available only from Analog Devices. It's refreshing to see this new edition, from Newnes, edited by Walt Kester, with its updated information-particularly in the digital signal-processing (DSP) area.Packed with design information from engineers with years of experience, and backed up by many references, this volume covers the details of both analog and digital signal-processing (DSP), as well as the requisite analog-digital interfacing. Perhaps the best way to review it is to let the chapter headings speak for themselves:

Introduction-about real-world signals and signal processing, with a practical example Sampled data systems: Discrete time sampling, static transfer functions and dc errors, ac errors in data converters, D/A converter dynamic performance A/D converters for DSP applications: Successive-approximation, sigma-delta, flash, subranging (pipelined), bit-per-stage D/A converters for DSP applications: DAC structures, low-distortion architectures, logic, interpolating, sigma-delta, direct digital synthesis (DDS) Fast Fourier transform (FFT): Discrete Fourier transform (DFT), fast Fourier transform, FFT hardware and benchmarks, DSP requirements for real-time FFT, spectral leakage and windowing Digital filters: Finite impulse response (FIR), implementations in DSPs, circular buffering, FIR designing, infinite impulse response (IIR), design techniques for IIR, multirate, adaptive DSP hardware: Microcontrollers, microprocessors, and DSPs; DSP requirements; ADSP-21xx 16-bit fixed-point core; fixed-point vs.

[Download to continue reading...](#)

Mixed-signal and DSP Design Techniques (Analog Devices) Digital Signal Processing in Vlsi (Analog Devices Technical Reference Books) DSP without math: A brief introduction to DSP The Art of DSP: An innovative introduction to DSP Nanoelectronic Mixed-Signal System Design Active Noise Control Systems: Algorithms and DSP Implementations (Wiley Series in Telecommunications and Signal Processing) Think DSP: Digital Signal Processing in Python Elijah: An Oratorio for Full Chorus of Mixed Voices, Soprano, Alto, Tenor, and Baritone Soli (Double Solo Quartet of Mixed Voices) and Piano (G. Schirmer's Editions of Oratorios and Cantatas) Mixed Blessing (Mixed Blessing Mystery, Book 1): A Romantic Urban Fantasy & Murder Mystery Series (Kindred) Analog and Digital Signal Processing:2nd (Second) edition Dynamic Offset Compensated CMOS Amplifiers (Analog Circuits and Signal Processing) VLSI Analog Signal Processing Circuits: Algorithm, Architecture, Modeling, and Circuit Implementation Analog & Digital Signal Processing An Introduction to Mixed-Signal IC Test and Measurement (Oxford Series in Electrical and Computer Engineering (Hardco) VLSI Design Techniques for Analog and Digital Circuits (McGraw-Hill Series in Electrical Engineering) Low-Voltage/Low-Power Integrated Circuits and Systems: Low-Voltage Mixed-Signal Circuits (IEEE Press Series on Microelectronic Systems) Ground Fighting Techniques to Destroy Your Enemy: Mixed Martial Arts, Brazilian Jiu Jitsu and Street Fighting Grappling Techniques and Strategy (Self-Defense Book 3) Analog Circuit Design: Art, Science and Personalities (EDN Series for Design Engineers) Polymer Clay Surface Design Recipes: 100 Mixed-Media Techniques Plus Project Ideas Bayesian Signal Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control)

